WINDOW TECHNOLOGY
DOOR TECHNOLOGY
AUTOMATIC ENTRANCE SYSTEMS
BUILDING MANAGEMENT SYSTEMS



DOOR TECHNOLOGY – ORDER CATALOGUE

The door closer range for standard and project solutions

Edition 07/2024

Securing technology for you

The Gretsch-Unitas group

Opening, moving, closing, securing – true to its motto "Securing technology for you", Gretsch-Unitas group provides groundbreaking solutions for window and door technology, automatic entrance systems and building management systems. With its system brands, the group delivers solutions for burglar inhibition on doors and windows, for barrier-free building, for doors in escape and rescue routes, extending to individual facade solutions for projects.



Gretsch-Unitas GmbH Baubeschläge

GU in Ditzingen is the headquarters of the group, development, administration and the production of modern architectural hardware for window and door technology. Apart from different flexible assembly departments, the production site comprises a high-tech punching, galvanising and anodising facility.

BKS GmbH

BKS manufactures mechanical and electronic locking cylinders, locks, locking systems and panic locks for escape and rescue routes. Harmonised mechanical and electronic system solutions are available for access control.

FERCO International S.A.S.

Ferco is the largest production site for window hardware in France. As a subsidiary of the Gretsch-Unitas group, Ferco also offers customer support and distribution in France for all products of the group.



GU Automatic

GU Automatic offers innovative, secure and reliable solutions for automatic entrance systems and automatic door systems, revolving doors, all-glass sliding walls, security curved sliding doors and controlled physical access.

ela-soft

The successful GEMOS facility management and organisation system was designed by ela-soft, one of the market and technology leaders in the building technology branch.

Securing technology for you

Product range

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Surface-mounted overhead door closers with slide rail

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Additional information

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Overview matrix

Surface-mounted overhead door closers with slide rail

Surface-mounted overhead door closers with slide rail				
Model	**OTS 736**	**OTS 735**	**OTS 736 FL**	**OTS 735 FL**
Page	**12–69**	**12–69**	**12–69**	**12–69**
Application				
Single-leaf	■	■	■	■
Double-leaf	■	■	■	■
Approved for use on fire and smoke protection doors	F	F	F	F
Max. door leaf width, 1-leaf [mm]	1400	1250	1400	1250
Max. door opening and closing angle	180° [3]/120° [4]	180° [3]/120° [4]	180° [3]/120° [4]	180° [3]/120° [4]
Adjustment functions				
Closing force sizes in accordance with EN 1154	3-6	2-5	6	5
Closing speed	■	■	■	■
Latching speed	■	■	■	■
Backcheck [2]	■	■	–	–
Delayed closing action [1]	Type SV	–	–	–
Hold-open variants				
Electromechanical hold-open device	optional	optional	–	–
Mechanical hold-open device [1]	optional	optional	–	–
Freewheel function	–	–	■	■
Installation variants				
Standard installation on hinge-side	■	■	■	■
Transom installation on side opposite to hinges	■	■	■	■
Standard installation on side opposite to hinges	Type BG	Type BG	Type BG	Type BG
Transom installation on hinge-side	Type BG	Type BG	Type BG	Type BG
Suitable for barrier-free construction				
according to DIN SPEC 1104	■	■	■	■
according to DIN 18040	■	■	■	■
	MORE	MORE	MORE	MORE

[1] Not approved for fire and smoke protection doors
[2] Not with transom installation on side opposite to hinges
[3] Standard installation on hinge-side
[4] Standard installation on side opposite to hinges; depending on installation situation

F **Suitability for fire protection**
Approved for use on fire and smoke protection doors

Surface-mounted overhead door closers with slide rail

Model	OTS 634	OTS 634x [3]	OTS 633 N	OTS 430 G	OTS 210 G
Page	**70–75**	**76–89**	**90–95**	**96–101**	**102–107**
Application					
Single-leaf	■	–	■	■	■
Double-leaf	–	■	–	–	–
Approved for use on fire and smoke protection doors	F	F	F	–	–
Max. door leaf width / total door leaf width 1-leaf / 2-leaf [mm]	1100 / –	– / 2200	950 / –	900 / –	850 / –
Max. door opening and closing angle [2]	180°	180°	180°	180°	180°
Adjustment functions					
Closing force sizes in accordance with EN 1154	2-4	2-4	3	1-2.5	2
Closing speed	■	■	■	■	■
Latching speed	■	■	■	■	■
Backcheck	■ [4]	■	–	Type BC [4]	–
Hold-open variants					
Electromechanical hold-open device	–	optional	–	–	–
Mechanical hold-open device [1]	optional	optional	optional	optional	optional
Installation variants					
Standard installation on hinge-side	■	■	■	■	■
Transom installation on side opposite to hinges	■	–	■	■	■
Transom installation on hinge-side	■	–	■	–	–
Suitable for barrier-free construction					
according to DIN 18040	■	■	■	■	■
	MORE	MORE	MORE	MORE	MORE

[1] Not approved for fire and smoke protection doors
[2] Standard installation on hinge-side
[3] Only in combination with the modular system of the OTS 73x series
[4] Effective from opening angle of approx. 80° with transom installation on side opposite to hinges

F **Suitability for fire protection**
Approved for use on fire and smoke protection doors

Overview matrix

Surface-mounted overhead door closers with scissor-action arm
Crank closer

Surface-mounted overhead door closers with scissor-action arm

Model	OTS 536	OTS 430	OTS 210	OTS 140	OTS 134
Page	**110–117**	**118–125**	**126–133**	**134–137**	**138–141**
Application					
Single-leaf	■	■	■	■	■
Approved for use on fire and smoke protection doors	F	F	–	–	F
Max. door leaf width, 1-leaf [mm]	1400	1250	1100	1100	1100
Max. door opening and closing angle [2]	180°	180°	180°	180°	180°
Adjustment functions					
Closing force sizes in accordance with EN 1154	2-6	2-5	2/3/4	2/3/4	2/3/4
Closing speed	■	■	■	■	■
Door strike / Latching speed	■	■	■	■	■
Backcheck	■	Type BC	–	–	–
Delayed closing action [1]	Type SV	–	–	–	–
Hold-open variants					
Mechanical hold-open device [1]	optional	optional	optional	optional	–
Installation variants					
Standard installation on hinge-side	■	■	■	■	■
Transom installation on side opposite to hinges	■	■	■	■	■
	MORE	MORE	MORE	MORE	MORE

Crank closer

Model	OTS 81	OTS 80
Page	**142–147**	**148–151**
Application		
Single-leaf	■	■
Approved for use on fire and smoke protection doors	F [3]	–
Maximum door leaf width, 1-leaf [mm]	1280	1600
Max. door opening and closing angle	90° or 180°	90 to 180°
Adjustment functions		
Closing force sizes according to DIN 18263-1	2-5	2-6
Closing speed	■	■
Latching speed	■	■
Backcheck	–	–
Delayed closing action	–	–
Hold-open variants		
Electromechanical hold-open	–	–
Mechanical hold-open device [1]	optional	optional
Installation variants		
Standard installation on hinge-side	■	■
Transom installation on side opposite to hinges	■	■
	MORE	MORE

[1] Not approved for fire and smoke protection doors
[2] Standard installation on hinge-side
[3] According to DIN 18263, part 1

F **Suitability for fire protection**
Approved for use on fire and smoke protection doors

Overview matrix

Concealed doors closers / Rebate door closers / Floor springs

Concealed door closers

Installation of the closer body in the door leaf, installation of the slide rail in the upper door frame

Model	VTS 736	VTS 735	VTS 735/4	VTS 735 FL	VTS 735/4 FL	VTS 634
Page	**154–199**	**154–199**	**154–199**	**154–199**	**154–199**	**200–205**
Application						
Single-leaf	■	■	■	■	■	■
Double-leaf	■	■	■	■	■	–
Approved for use on fire and smoke protection doors	F	F	F	F	F	F
Max. door leaf width, 1-leaf [mm]	1400	1250	1250	1250	1250	1100
Min. door leaf thickness [mm]	50	40	40	40	40	42
Max. Door opening and closing angle [2]	120°	120°	120°	120°	120°	120°
Adjustment functions						
Closing force sizes in accordance with EN 1154	3-6	3-5	3-5	5	5	2-4
Closing speed	■	■	■	■	■	■
Latching speed	–	–	–	–	–	■
Latching speed	■	■	■	■	■	–
Backcheck	–	■	■	–	–	–
Hold-open variants						
Electromechanical hold-open device	optional	optional	optional	–	–	–
Mechanical hold-open device [1]	optional	optional	optional	–	–	optional
Freewheel function	–	–	–	■	■	–
Suitable for barrier-free construction						
according to DIN SPEC 1104	■	■	■	■	■	–
according to DIN 18040	■	■	■	■	■	■
	MORE	MORE	MORE	MORE	MORE	MORE

Rebate door closers

Installation in vertical door rebate

Model	20	24
Page	**206–207**	**206–207**
Application		
Single-leaf	■	■
Double-leaf	–	–
Approved for use on fire and smoke protection doors	–	–
Max. door leaf width, 1-leaf [mm]	900	1000
Min. door leaf thickness [mm]	30	40
Adjustment functions		
Closing force sizes in accordance with EN 1154	1-2	2-3
Closing speed	■	■
Latching speed	■	■
	MORE	MORE

Floor spring

Model	UTS 840
Page	**208–210**
Application	
Single-leaf	■
Double-leaf	–
Approved for use on fire and smoke protection doors	–
Max. door leaf width, 1-leaf [mm]	950
Adjustment functions	
Closing force sizes in accordance with EN 1154	3
Closing speed	■
Latching speed	■
Mechanical backcheck	■
Hold-open variants	
Fix (with hold-open catch)	■
	MORE

[1] Not approved for fire and smoke protection doors
[2] Depending on installation situation

F **Suitability for fire protection**
Approved for use on fire and smoke protection doors

Surface-mounted overhead door closers with slide rail



Picture of person: Little girl running / Getty Images

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Surface-mounted overhead door closers with slide rail

OTS 73x series

For door leaf widths up to 1400 mm / total door leaf widths up to 2800 mm

OTS 73x series – Modular system from page 12
OTS 73x series – Individual components from page 22
OTS 73x series – Sets for 1-leaf doors from page 36
OTS 73x series – Sets for 2-leaf doors from page 48
OTS 73x series – Accessories from page 60
OTS 73x series – Installation situations from page 66

OTS 634

For door leaf widths up to 1100 mm

OTS 634 overhead door closer from page 70
OTS 634 overhead door closer – Accessories from page 72
OTS 634 overhead door closer – Installation situations from page 74

OTS 634x SRI

For total door leaf widths up to 2200 mm

OTS 634x SRI – Modular system from page 76
OTS 634x SRI – Sets for 2-leaf doors from page 78
OTS 634x SRI – Accessories from page 86
OTS 634x SRI – Installation situations from page 88

OTS 633 N

For door leaf widths up to 950 mm

OTS 633 N overhead door closer from page 90
OTS 633 N overhead door closer – Accessories from page 92
OTS 633 N overhead door closer – Installation situations from page 93

OTS 430 G

For door leaf widths up to 900 mm

OTS 430 G overhead door closer from page 96
OTS 430 G overhead door closer – Accessories from page 98
OTS 430 G overhead door closer – Installation situations from page 100

OTS 210 G

For door leaf widths up to 850 mm

OTS 210 G overhead door closer from page 102
OTS 210 G overhead door closer – Accessories from page 104
OTS 210 G overhead door closer – Installation situations from page 106

Modular system of the OTS 73x series

Compact and elegant design

High degree of comfort and slender appearance: the OTS 73x series

The comprehensive product range of the OTS 73x series is in a class of its own due to an attractive design and high degree of opening comfort: although even more compact and elegant, this generation of tried-and-tested closers with slide arm is still easy and pleasant to operate.

The bodies of the series OTS 73x are only 63 mm high, 44 mm deep and 268 mm long and are therefore the smallest currently available on the market. All product types have uniform dimensions, hole patterns and optics which ensures that when different door closers are used, the resulting overall appearance is harmonious. The only exception is the free-swing variant where the dimensions vary slightly.







The visually appealing closed surface of the OTS 73x series also leaves nothing to be desired. This is due to features such as the elegant slide rail cover and the rugged hood which is used instead of a slide-on cover. The covers and the slide arm are available in different materials and finishes. This means our customers can select suitable elements for the door and the surrounding architecture.

The concealed mounting plate is the finishing touch to the attractive design. The OTS 73x series also includes the VTS 73x concealed door closer which meets exceptionally high design and functional demands: mounted in the door leaf, the closer and slide rail remain hidden when the door is closed.

The ingenious technology of the door closer lives up to its quality appearance, namely integrated double-heart curve technology and the optional free-swing function which ensure very convenient access.



Advantages at a glance

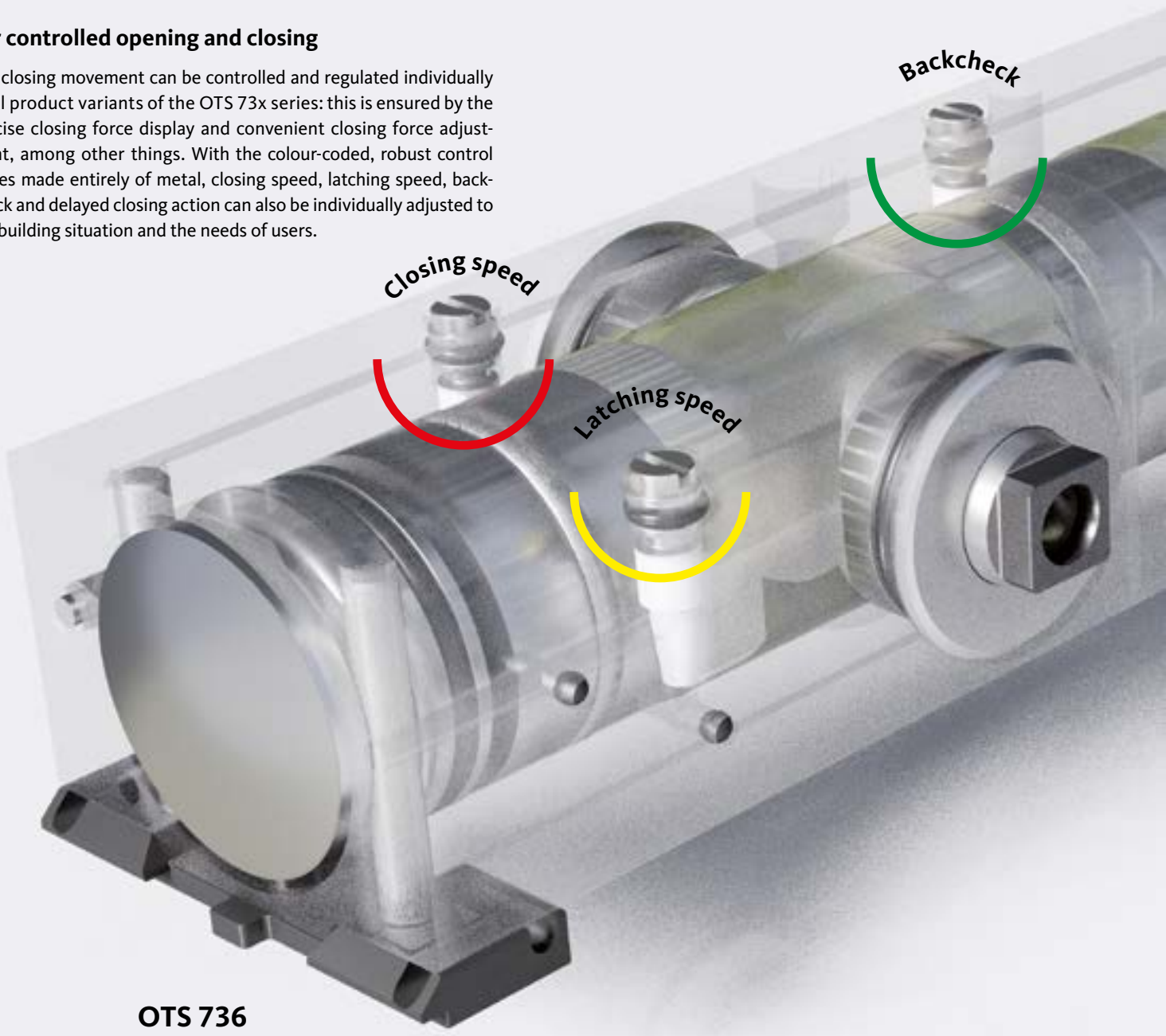
- Smallest closer case on the market by comparison: with elegant, streamlined design
- Robust cover in modern GU design instead of a slider: available in different materials and finishes, also in stainless steel
- Uniform robust slide rail cover
- Concealed mounting plate below the cover: for a high-quality cohesive visual appearance
- The dimensions are practically uniform throughout the entire range of door closers for a harmonious effect on the overall project
- Uniform drilling pattern for all door closer types

Modular system of the OTS 73x series

Patented technology meets simple control

For controlled opening and closing

The closing movement can be controlled and regulated individually in all product variants of the OTS 73x series: this is ensured by the precise closing force display and convenient closing force adjustment, among other things. With the colour-coded, robust control valves made entirely of metal, closing speed, latching speed, backcheck and delayed closing action can also be individually adjusted to the building situation and the needs of users.



OTS 736



1 Closing force adjustment

2 Closing force display



Double-heart curve technology



Thermomatic control valves made of metal



OTS 736 SV

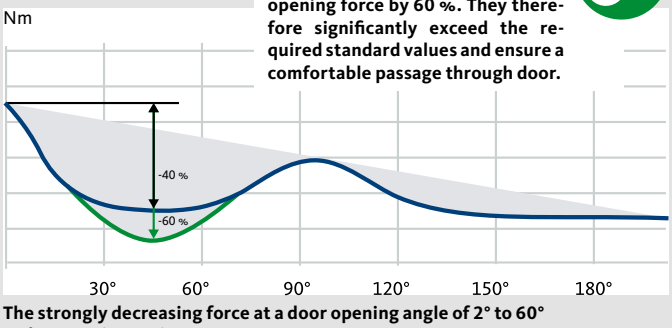
Advantages at a glance

- The closing shaft with patented double-heart curve technology ensures smooth opening and therefore maximum comfort
- The SilentClose technology integrated as standard ensures a safe and quiet closing of the door
- Opening and closing movement can be precisely controlled
- For convenient closing force adjustment with only 9 turns, from min. up to max. value
- Visual display of set closing force
- Colour-coded control valves prevent confusion during adjustment
- Vandalism-proof due to override function, e.g. the SRI waiting position (can be overcome with pressure) and all hold-open types

Barrier-free convenience thanks to intelligent use of force

The patented double-heart curve technology of the OTS 73x series allows the door to be opened very easily and comfortably. This enables it to fulfil the DIN SPEC 1104 (CEN/TR 15894) requirements, which prescribe reduction of the opening force by 40 % at an opening angle of 2° to 60°. This also allows children and elderly persons or persons with physical disabilities to effortlessly pass through large doors.

The door closers from the OTS 73x series impressively reduce the opening force by 60 %. They therefore significantly exceed the required standard values and ensure a comfortable passage through door.



The strongly decreasing force at a door opening angle of 2° to 60° makes opening easier

Modular system of the OTS 73x series

The modular system at a glance

School, hotel or airport? Single or double-leaf doors? Installation on the hinge-side or the side opposite to hinges? Transom or standard installation? Each door closer is an individual answer to specific building situations and door variants. The innovative modular system of the OTS 73x series meets these requirements in every respect which makes it much easier to plan and install any application.

Possible uses range from simple door closing to fire protection all the way through to barrier freedom. In addition, the modular system allows fast retrofitting and easy incorporation of additional functions when implementing special solutions.

Modular components



OTS 73x door closer body

- Double-heart curve technology allows the door to be opened and accessed very easily and comfortably



OTS 73x FL door closer body

- With electrically integrated free-swing function, can be activated from an opening angle of 0°



GS slide rail with slide arm

- One slide rail for all applications
- Straightforward, fast and can be flexibly extended to include further components



AD-OTS 73x cover

- Elegantly proportioned GU design
- Theft-proof thanks to integrated hood lock



AD-OTS 73x FL cover

- Elegantly proportioned GU design



AD-GS cover

- For the highest expectations in terms of appearance and design
- Fast straightforward installation and retrofitting, with no additional drill holes required



FM mechanical hold-open device

- Steplessly adjustable from 80°–140°
- With integrated opening restrictor (ÖB)
- On-/off-switchable override function



ÖB opening restrictor

- Steplessly adjustable limit angle up to 120°

The OTS 73x series makes all this happen as it contains suitable components for all applications and mounting variants across the board: the slide rail and slide arm, the symmetrical mounting plate and axle extension are always the same and can be combined without problems. Without being dismantled, they can be flexibly expanded with additional components – for example, with a mechanical or electromechanical hold-open device, door-leaf coordinator, opening restrictor or smoke switch module.

The advantage is obvious: those who have components that are exactly matched for all requirements need fewer different components in storage and fewer fixing accessories – for more efficiency and cost-effectiveness.



FE electromechanical hold-open device

- Steplessly adjustable from 85°–140°
- Complete opening beyond hold-open angle possible up to 180°
- Tested and approved by DIBt*



SRI door-leaf coordinator

- SRI waiting position with load-limiting device
- Optional: with integrated microswitch



AD-GS-FE cover

- For the highest expectations in terms of appearance and design
- Simple and fast installation



AD-SRI cover

- For the highest expectations in terms of appearance and design
- Simple and fast installation



RSM-H smoke switch module

- For supplying electricity to, and controlling all components of, a hold-open system
- Tested and approved by DIBt*



MP mounting plate

- Wit fixing pins to ensure reliable, fast installation and a stable fixing
- For all application and installation types

*German Institute of Building Engineering

Modular system of the OTS 73x series

Single-leaf solutions

Order poster for download
Hinge-side
(WP06028-04-2-5)

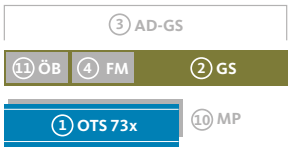
Hinge-side



1BS OTS 73x
1A AD-OTS 73x
2 GS

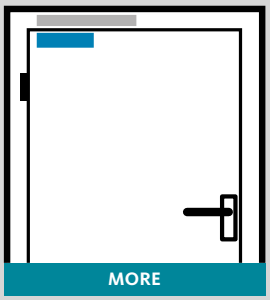
Door closer set with GS slide rail

OTS 735	**K-18360-00-0-***
OTS 736	**K-18362-00-0-***
OTS 735 FL	**K-19270-00-0-***
OTS 736 FL	**K-18388-00-0-***



Option:

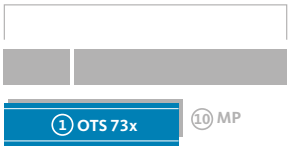
3 AD-GS	K-18364-00-0-*
4 FM	K-18369-00-0-6
11 ÖB	K-18916-00-0-6
10 MP	K-18280-00-0-1



1BS OTS 73x
1A AD-OTS 73x

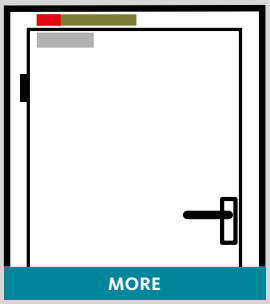
Door closer set without slide rail

OTS 735	**K-18498-00-0-***
OTS 736	**K-18500-00-0-***
OTS 735 FL	**K-19268-00-0-***
OTS 736 FL	**K-18504-00-0-***



Option:

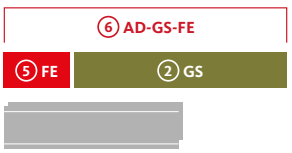
10 MP	K-18280-00-0-1

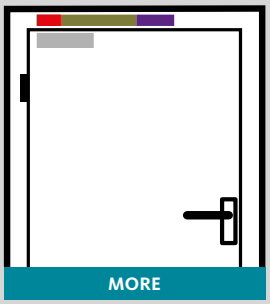


2 GS
5 FE
6 AD-GS-FE

Slide rail set GS FE-OTS 73x

GS FE-OTS 73x	**K-18352-00-0-***

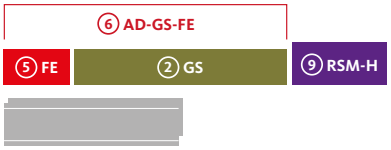




2 GS
5 FE
6 AD-GS-FE
9 RSM-H

Slide rail set GS FER-OTS 73x

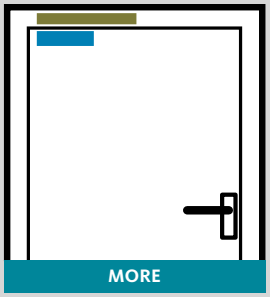
GS FER-OTS 73x	**K-18353-00-0-***



*available in finishes -1, -6, -7, -8, -9

Order poster for download
Side opposite to hinges
(WP06028-04-2-5)

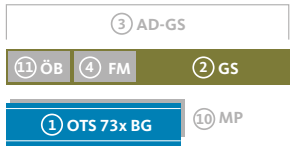
Side opposite to hinges



1BG OTS 73x BG
1A AD-OTS 73x
2 GS

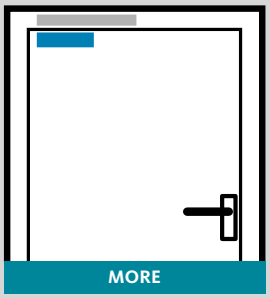
BG door closer set with GS slide rail

OTS 735 BG	**K-18361-00-0-***
OTS 736 BG	**K-18363-00-0-***
OTS 735 FL BG	**K-19271-00-0-***
OTS 736 FL BG	**K-18389-00-0-***



Option:

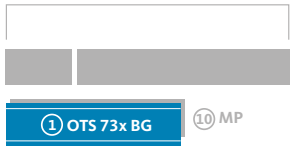
■ 3 AD-GS	K-18364-00-0-*
■ 4 FM	K-18369-00-0-6
■ 11 ÖB	K-18916-00-0-6
■ 10 MP	K-18280-00-0-1



1BG OTS 73x BG
1A AD-OTS 73x

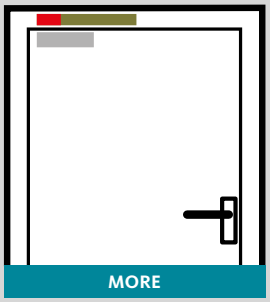
BG door closer set without slide rail

OTS 735 BG	**K-18499-00-0-***
OTS 736 BG	**K-18501-00-0-***
OTS 735 FL BG	**K-19269-00-0-***
OTS 736 FL BG	**K-18505-00-0-***



Option:

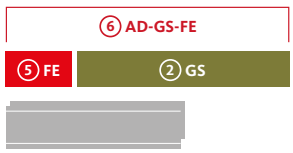
■ 10 MP	K-18280-00-0-1

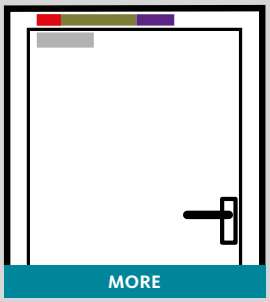


2 GS
5 FE
6 AD-GS-FE

Slide rail set GS FE-OTS 73x

GS FE-OTS 73x	**K-18352-00-0-***

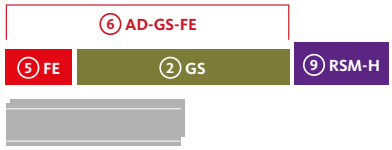




2 GS
5 FE
6 AD-GS-FE
9 RSM-H

Slide rail set GS FER-OTS 73x

GS FER-OTS 73x	**K-18353-00-0-***



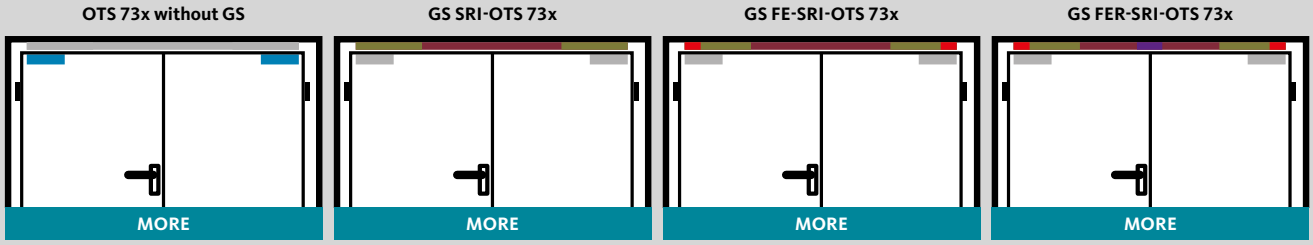
*available in finishes -1, -6, -7, -8, -9

Modular system of the OTS 73x series

2-leaf solutions

Order poster for download
Hinge-side
(WP06028-04-2-5)

Hinge-side



Set consisting of:

Door closer set without slide rail

OTS 735	2 x K-18498-00-0-*	OTS 735 FL	2 x K-19268-00-0-*	**Option:**
OTS 736	2 x K-18500-00-0-*	OTS 736 FL	2 x K-18504-00-0-*	■ ⑩ MP 2 x K-18280-00-0-1

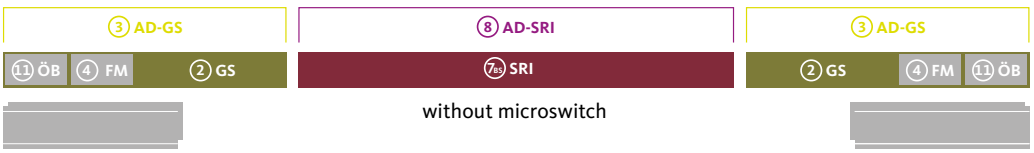
1BS OTS 73x
1A AD-OTS 73x



Slide rail set GS SRI-OTS 73x

GS SRI-OTS 73x **K-18354-00-0-*** **Option:** ■ ④ FM 2x K-18369-00-0-6 ■ ⑪ ÖB 2 x K-18916-00-0-6

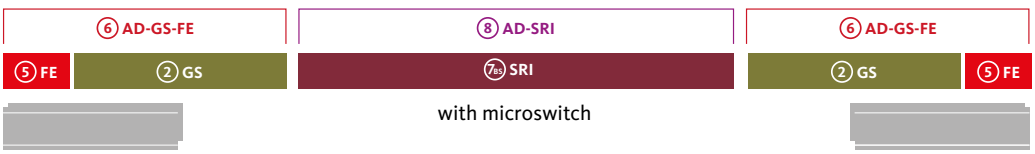
2 2x GS
3 2x AD-GS
7BS SRI
8 AD-SRI



Slide rail set GS FE-SRI-OTS 73x

GS FE-SRI-OTS 73x **K-18355-00-0-***

2 2x GS
5 2x FE
6 2x AD-GS-FE
7BS SRI
8 AD-SRI



Slide rail set GS FER-SRI-OTS 73x

GS FER-SRI-OTS 73x **K-18356-00-0-***

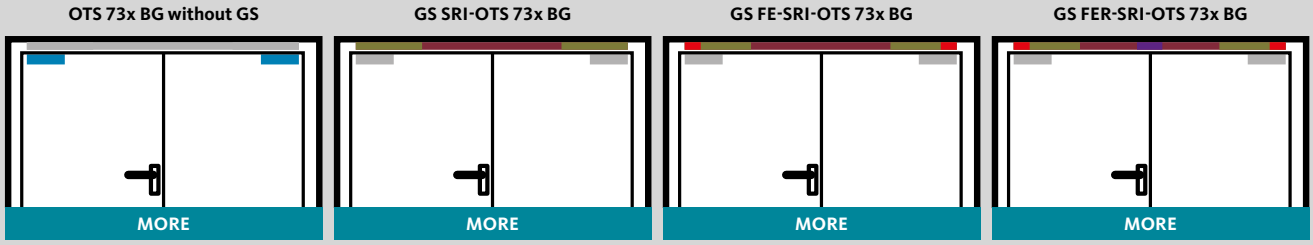
2 2x GS
5 2x FE
6 2x AD-GS-FE
7BS SRI
8 AD-SRI
9 RSM-H



*available in finishes -1, -6, -7, -8, -9

Order poster for download
Side opposite to hinges
(WP06028-04-2-5)

Side opposite to hinges



Set consisting of:

1BG OTS 73x BG
1A AD-OTS 73x

BG door closer set without slide rail

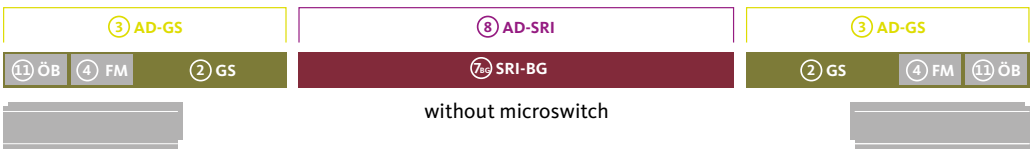
OTS 735 BG	2 x K-18499-00-0-*	OTS 735 FL BG	2 x K-19269-00-0-*	Option:	
OTS 736 BG	2 x K-18501-00-0-*	OTS 736 FL BG	2 x K-18505-00-0-*	■ ⑩ MP	2 x K-18280-00-0-1



2 2x GS
3 2x AD-GS
7BG SRI-BG
8 AD-SRI

Slide rail set GS SRI-OTS 73x BG

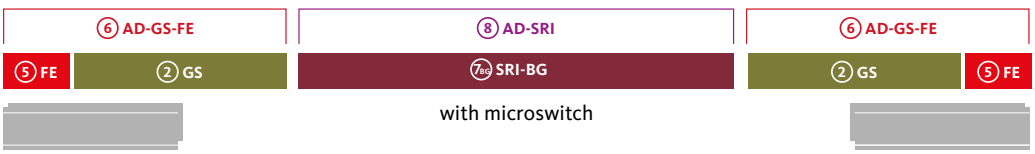
GS SRI-OTS 73x BG	K-18357-00-0-*	Option:	■ ④ FM 2x K-18369-00-0-6
			■ ⑪ ÖB 2 x K-18916-00-0-6



2 2x GS
5 2x FE
6 2x AD-GS-FE
7BG SRI-BG
8 AD-SRI

Slide rail set GS FE-SRI-OTS 73x BG

GS FE-SRI-OTS 73x BG	K-18358-00-0-*



2 2x GS
5 2x FE
6 2x AD-GS-FE
7BG SRI-BG
8 AD-SRI
9 RSM-H

Slide rail set GS FER-SRI-OTS 73x BG

GS FER-SRI-OTS 73x BG	K-18359-00-0-*



*available in finishes -1, -6, -7, -8, -9

OTS 73x series – Individual components

OTS 73x / OTS 73x BG door closer body

1 1BS 1BG



TO THE MODULAR SYSTEM

1BS 1BG **OTS 73x / OTS 73x BG door closer body**

Product characteristics

- Tested and certified in accordance with EN 1154
- Double-heart curve technology allows the door to be opened and accessed very easily and comfortably
- Suitable for barrier-free construction in compliance with DIN SPEC 1104 and DIN 18040
- Compact dimensions (L x H x D): 268 x 63 x 43 mm for all variants

Adjustment functions

- Closing speed
- Latching speed
- Backcheck [2]
- Delayed closing action (Type SV) [3]
- Closing force sizes / Variants
  – OTS 735/OTS 735 BG: EN 2-5 [1]
  – OTS 736/OTS 736 BG: EN 3-6 [1]
  – OTS 736 SV/OTS 736 SV BG: EN 3-6 [1][3]
- SilentClose technology integrated as standard for a safe and quiet closing of the door
- With closing force display
- Simple and safe adjustment of closing force with just a few turns of the adjustment screw (max. 9 turns EN min. up to EN max.)
- Colour-coded control valves ensure clarity of overview during adjustment
- Thermomatic valves ensure a uniform closing speed in the event of temperature fluctuations
- Security valves in the closer protect against overloading

Order information

Versions/Order numbers

Designation	Description	Order number	Modular system number
OTS 735 door closer body	without cover **hinge-side**	K-18343-00-0-1	1BS
OTS 736 door closer body		K-18345-00-0-1	
OTS 736 SV door closer body [3]		K-18347-00-0-1	

Versions/Order numbers

Designation	Description	Order number	Modular system number
OTS 735 BG door closer body	without cover **side opposite to hinges**	K-18344-00-0-1	1BG
OTS 736 BG door closer body		K-18346-00-0-1	
OTS 736 SV BG door closer body [3]		K-18348-00-0-1	

Classification code in accordance with EN 1154						
OTS 735/OTS 735 BG	4	8	2/5	1	1	4
OTS 736/OTS 736 BG	4	8	3/6	1	1	4

EN 1154 DIN SPEC 1104 DIN 18040 CE

[1] Factory condition size 4.
[2] Not with transom installation on side opposite to hinges.
[3] Not approved for fire and smoke protection doors.

OTS 73x series – Individual components

AD-OTS 73x cover

1 1A



TO THE MODULAR SYSTEM

1A AD-OTS 73x cover

Product characteristics

- Compatible with all OTS 73x / OTS 73x BG closer bodies
- Elegantly proportioned GU design
- Available in all materials and colours, also in stainless steel
- Theft-proof thanks to integrated hood lock

Order information

Versions/Order numbers

Designation	Finish	Order number	Modular system number
AD-OTS 73x cover	silver	K-18338-00-0-1	1A
	black (RAL 9005)	K-18338-00-0-6	
	white (RAL 9016)	K-18338-00-0-7	
	stainless steel	K-18338-00-0-8	
	special colour	K-18338-00-0-9	

OTS 73x series – Individual components

OTS 73x FL/ OTS 73x FL BG door closer body

1 1BS 1BG



TO THE MODULAR SYSTEM

1BS 1BG OTS 73x FL/ OTS 73x FL BG door closer body

Product characteristics

The OTS 73x FL ensures barrier-free effortless passage through fire protection doors. The integrated electrical free-swing function allows the door to move freely as if no door closer was installed. Safe and reliable door locking is still ensured in the event of a fire. This makes OTS 73x FL door closers perfect for use on fire protection doors in kindergartens, schools, hospitals and residential homes for the elderly.

- Tested and certified in accordance with EN 1154 and EN 1155
- Tested and approved by DIBt (German Institute of Building Engineering)
- Suitable for barrier-free construction in compliance with DIN SPEC 1104 and DIN 18040
- Smallest dimensions (L x H x D): 319 x 65.5 x 45 mm, incl. cover
- Closing force sizes / Variants
  – OTS 735 FL/OTS 735 FL BG: EN 5
  – OTS 736 FL/OTS 736 FL BG: EN 6
- Uniform drilling-hole pattern with all door closers of the OTS 73x series

Adjustment functions

- With electrically integrated free-swing function, can be activated from an opening angle of 0°
  – Operating voltage: 24 V DC
  – Power consumption: 2.4 W
  – Duty ratio: 100 %
- Closing speed
- Latching speed

Order information

Versions/Order numbers

Designation	Description	Order number	Modular system number
OTS 735 FL door closer body	without cover **hinge-side**	K-19266-00-0-1	1BS
OTS 736 FL door closer body		K-18349-00-0-1	

Versions/Order numbers

Designation	Description	Order number	Modular system number
OTS 735 FL BG door closer body	without cover **side opposite to hinges**	K-19267-00-0-1	1BG
OTS 736 FL BG door closer body		K-18350-00-0-1	

Classification code in accordance with EN 1154						
OTS 735 FL/OTS 735 FL BG	4	8	5	1	1	4
OTS 736 FL/OTS 736 FL BG	4	8	6	1	1	4

EN 1154 EN 1155 DIN SPEC 1104 DIN 18040 CE

1 1A



TO THE MODULAR SYSTEM

1A **AD-OTS 73x FL cover**

Product characteristics

- Compatible with all OTS 73x FL / OTS 73x FL BG door closer bodies
- Elegantly proportioned GU design
- Available in all materials and colours, also in stainless steel

Order information

Versions/Order numbers

Designation	Finish	Order number	Modular system number
AD-OTS 73x FL cover	silver	K-18508-00-0-1	1A
	black (RAL 9005)	K-18508-00-0-6	
	white (RAL 9016)	K-18508-00-0-7	
	stainless steel	K-18508-00-0-8	
	special colour	K-18508-00-0-9	

OTS 73x series – Individual components

GS slide rail

2



TO THE MODULAR SYSTEM

2 GS slide rail

Product characteristics

- One slide rail, one slide arm and one axle extension for all application and installation types:
  - Hinge side and side opposite to hinges
  - Standard and transom installation
- DIN left and DIN right-handed
- Slide rail installation height:
  - 22 mm standard (without cover)
  - 25 mm (with optional cover)
- Very easy to install due to neutral hardware installation
- Straightforward, fast and can be flexibly extended to include further components such as:
  - FM mechanical hold-open device
  - FE electromechanical hold-open device
  - ÖB opening restrictor

Order information

Versions/Order numbers

Designation	Finish	Order number	Modular system number
GS slide rail (incl. slide arm and axle top part)	silver	K-18351-00-0-1	2
	black (RAL 9005)	K-18351-00-0-6	
	white (RAL 9016)	K-18351-00-0-7	
	stainless steel colour	K-18351-00-0-8P	
	special colour	K-18351-00-0-9	

OTS 73x series – Individual components

AD-GS slide rail cover

3



TO THE MODULAR SYSTEM

3 AD-GS slide rail cover

Product characteristics

- Usable for GS slide rail
- Optional cover that meets the highest expectations in terms of optics and design
- Available in all colours, also stainless steel
- DIN left and DIN right-handed
- Fast straightforward installation and retrofitting, with no additional drill holes required
- Installation height: 25 mm

Order information

Versions/Order numbers

Designation	Finish	Order number	Modular system number
AD-GS slide rail cover	silver	K-18364-00-0-1	3
	black (RAL 9005)	K-18364-00-0-6	
	white (RAL 9016)	K-18364-00-0-7	
	stainless steel	K-18364-00-0-8	
	special colour	K-18364-00-0-9	

OTS 73x series – Individual components

FM mechanical hold-open device

4



TO THE MODULAR SYSTEM

4 **FM mechanical hold-open device with ÖB opening restrictor**

Product characteristics

- Device that allows a door to be held open temporarily at a chosen angle until it is closed manually
- Simple and easy installation, integrated in the slide rail
- Retrofittable
- With integrated opening restrictor
- When the integrated opening restriction is removed, the hold-open device can be slightly opened beyond the hold-open angle
- Steplessly adjustable from 80°–140°
- Disengaging force adjustable in 3 steps

Order information

Versions/Order numbers

Designation	Order number	Modular system number
FM mechanical hold-open device [1]	K-18369-00-0-6	4

[1] Not approved for fire and smoke protection doors.

OTS 73x series – Individual components

FE electromechanical hold-open device

5



TO THE MODULAR SYSTEM

5 **FE electromechanical hold-open device**

Product characteristics

- Device that allows a door to be held open at a chosen angle until it is closed electrically
- The hold-open device can also be triggered manually at any time
- Tested and certified in accordance with EN 1155
- Tested and approved by DIBt (German Institute of Building Engineering)
- Fast straightforward installation, laterally on the slide rail, without additional drill hole
- Retrofittable, without additional drill hole
- Steplessly adjustable hold-open angle from 85°–140°
- Two different hold-open ranges can be preset at the same time
  – 1. Hold-open range: 80° – 110°
  – 2. Hold-open range: 110°–140°
- Fully overridable, the door can therefore be opened up to the maximum opening angle of 180° if required
- **Technical data**
  – Operating voltage: 24 V DC
  – Power consumption: 1.9 W
  – Duty ratio: 100 %

Order information

Versions/Order numbers

Designation	Order number	Modular system number
Electromechanical hold-open device FE	K-18368-00-0-6	5

EN 1155 F CE

OTS 73x series – Individual components

AD-GS-FE cover for electromechanical hold-open device

6



TO THE MODULAR SYSTEM

6 AD-GS-FE cover for electromechanical hold-open device

Product characteristics

- Cover for FE electromechanical hold-open device
- Fulfils the highest expectations visual appearance and design expectations
- Available in all colours, also stainless steel
- Simple and fast installation
- Can be used at single and double-leaf doors, as well as well as DIN left and DIN right
- Installation height: 25 mm

Order information

Versions/Order numbers

Designation	Finish	Order number	Modular system number
AD-GS-FE cover for electromechanical hold-open device	silver	K-18365-00-0-1	6
	black (RAL 9005)	K-18365-00-0-6	
	white (RAL 9016)	K-18365-00-0-7	
	stainless steel	K-18365-00-0-8	
	special colour	K-18365-00-0-9	

OTS 73x series – Individual components

SRI / SRI-BG door-leaf coordinator

7BS 7BG



TO THE MODULAR SYSTEM

7BS SRI door-leaf coordinator



TO THE MODULAR SYSTEM

7BG SRI-BG door-leaf coordinator

Product characteristics

- Used at double-leaf doors to ensure the doors always close in the correct sequence
- Tested and certified in accordance with EN 1158
- Fast straightforward installation, laterally on the slide rail
  – without additional drill holes
  – no subsequent adjustment necessary
- Retrofittable
- For hinge-side and side opposite to hinges
- SRI waiting position with load-limiting device prevents damages in case of mishandling
- With fixed stable cable
- Also available with optional integrated microswitch, especially when using the electromechanical hold-open device This also makes it possible to trigger the hold-open device at the inactive leaf automatically when the active leaf is manually triggered

Order information

Versions/Order numbers

Designation	Description	Order number	Modular system number
SRI door-leaf coordinator **Hinge-side**	without microswitch	K-18370-00-0-1	7BS
	with microswitch	K-18834-00-0-1	

Versions/Order numbers

Designation	Description	Order number	Modular system number
SRI-BG door-leaf coordinator **Side opposite to hinges**	without microswitch	K-18371-00-0-1	7BG
	with microswitch	K-18835-00-0-1	

EN 1158 CE

OTS 73x series – Individual components

AD-SRI cover for door-leaf coordinator

8



TO THE MODULAR SYSTEM

8 AD-SRI cover for door-leaf coordinator

Product characteristics

- To cover the SRI / SRI-BG door-leaf coordinator
- Fulfils the highest expectations visual appearance and design expectations
- Simple and fast installation
- Available in all colours, also stainless steel
- Length: 1700 mm
- Installation height: 25 mm

Order information

Versions/Order numbers

Designation	Finish	Order number	Modular system number
AD-SRI cover for door-leaf coordinator	silver	K-18367-00-0-1	8
	black (RAL 9005)	K-18367-00-0-6	
	white (RAL 9016)	K-18367-00-0-7	
	stainless steel	K-18367-00-0-8	
	special colour	K-18367-00-0-9	

OTS 73x series – Individual components

RSM-H smoke switch module

9



TO THE MODULAR SYSTEM

9 RSM-H smoke switch module

Product characteristics

- Tested and approved by DIBt (German Institute of Building Engineering)
- For supplying electricity to all components of a hold-open system
- With integrated power supply and release mechanism
- With integrated smoke switch
- With LED status indication
  - Operation/Alarm
  - Interference
  - Soiling
- Cover in GU design, in the same look as the AD-OTS 73x cover
- Installation on the frame/lintel
- Installation height: 36 mm
- For technical data refer to page 218

Order information

Versions/Order numbers

Designation	Finish	Order number	Modular system number
RSM-H smoke switch module (incl. power supply unit and smoke switch ORS 142 W-GU)	silver	K-19058-10-0-1	9
	black (RAL 9005)	K-19058-10-0-6	
	white (RAL 9016)	K-19058-10-0-7	
	stainless steel colour	K-19058-10-0-8P	
	special colour	K-19058-10-0-9	

OTS 73x series – Individual components

MP mounting plate

10



TO THE MODULAR SYSTEM

10 **MP mounting plate**

Product characteristics

- For fixing of OTS 73x door closer body according to DIN drilling-hole pattern (EN 1154) at fire and smoke protection doors
- Allows a universal more stable fixing of the closer body to the door
- Symmetrical mounting plate for all door closer variants in the OTS 73x series (also for clearance)
- Can be used for all application and installation types
- With fixing pins for fast secure installation and stable fixing, and also for avoiding incorrect installation
- Concealed below the cover

Order information

Versions/Order numbers

Designation	Order number	Modular system number
MP mounting plate	K-18280-00-0-1	10

OTS 73x series – Individual components

ÖB opening restrictor

11



TO THE MODULAR SYSTEM

11 ÖB opening restrictor

Product characteristics

- Device that limits the opening angle of the door at a defined position. Its purpose is to prevent swing doors being thrown open uncontrollably and therefore damage to the slide rail, door, door frame, hinge, wall, etc.
- Can be integrated in the slide rail
- Retrofittable
- Steplessly adjustable limit angle up to 120°
- **Attention:** in many applications, this opening restrictor is not a substitute for the doorstop!

Order information

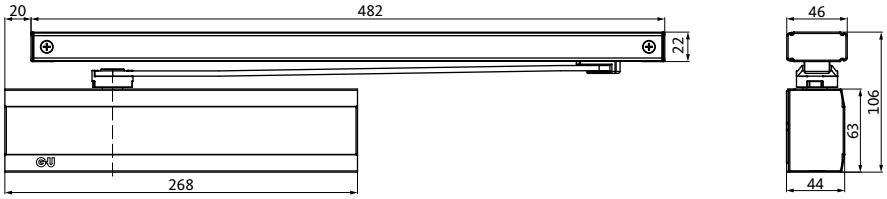
Versions/Order numbers

Designation	Order number	Modular system number
ÖB opening restrictor	K-18916-00-0-6	11

OTS 73x / OTS 73x BG door closer set

with GS slide rail





Product characteristics

- Solution for 1-leaf doors with door leaf widths up to 1400 mm
- Tested and certified in accordance with EN 1154

Application ranges

- 1-leaf fire and smoke protection doors
- For 1-leaf swing doors
- Min. door leaf width 600 mm
- Max. door leaf widths
  - 1250 mm (OTS 735/OTS 735 BG)
  - 1400 mm (OTS 736/OTS 736 BG)
- DIN left and DIN right-handed
- **BS variant:**
  - Standard installation on hinge-side (BS)
  - Transom installation on side opposite to hinges (BG)
- **BG variant:**
  - Standard installation on side opposite to hinges (BG)
  - Transom installation on hinge-side (BS)
- Max. door opening and closing angle
  - Standard installation on hinge-side: 180°
  - Standard installation on side opposite to hinges: 120° [1]
- Greater range of application with side opposite to hinges (BG) due to separate BG variant
  - e.g. opening angle of approx. 113° with an X-dimension of 100 [1]

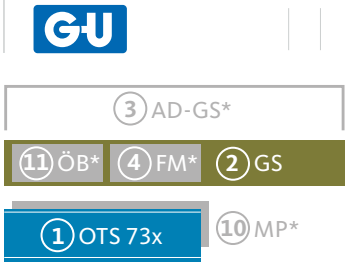
(see page 259)

[1] Depending on installation situation.
Position door stop for max. door opening angle.

EN 1154 DIN SPEC 1104 DIN 18040 F CE

OTS 73x door closer sets – with slide rail

Hinge side/side opposite to hinges



*Optional accessories

OTS 735 door closer set – EN 2-5 (= door leaf widths up to 1250 mm)

OTS 735 door closer (hinge-side) or OTS 735 BG door closer (side opposite to hinges) with cover and slide rail

Set consisting of	Finish	Order number		Consisting of module numbers		
		Hinge-side	Side opposite to hinges			
OTS 735 door closer (hinge-side) or OTS 735 BG door closer (side opposite to hinges) AD-OTS 73x cover GS slide rail	silver	K-18360-00-0-1	K-18361-00-0-1	1BS 1BG	1A	2
	black (RAL 9005)	K-18360-00-0-6	K-18361-00-0-6			
	white (RAL 9016)	K-18360-00-0-7	K-18361-00-0-7	Page 22	Page23	Page 26
	special colour	K-18360-00-0-9	K-18361-00-0-9			
				MORE	MORE	MORE

OTS 736 door closer set – EN 3-6 (= door leaf widths up to 1400 mm)

OTS 736 door closer (hinge-side) or OTS 736 BG door closer (side opposite to hinges) with cover and slide rail

Set consisting of	Finish	Order number		Consisting of module numbers		
		Hinge-side	Side opposite to hinges			
OTS 736 door closer (hinge-side) or OTS 736 BG door closer (side opposite to hinges) AD-OTS 73x cover GS slide rail	silver	K-18362-00-0-1	K-18363-00-0-1	1BS 1BG	1A	2
	black (RAL 9005)	K-18362-00-0-6	K-18363-00-0-6			
	white (RAL 9016)	K-18362-00-0-7	K-18363-00-0-7	Page 22	Page23	Page 26
	special colour	K-18362-00-0-9	K-18363-00-0-9			
				MORE	MORE	MORE

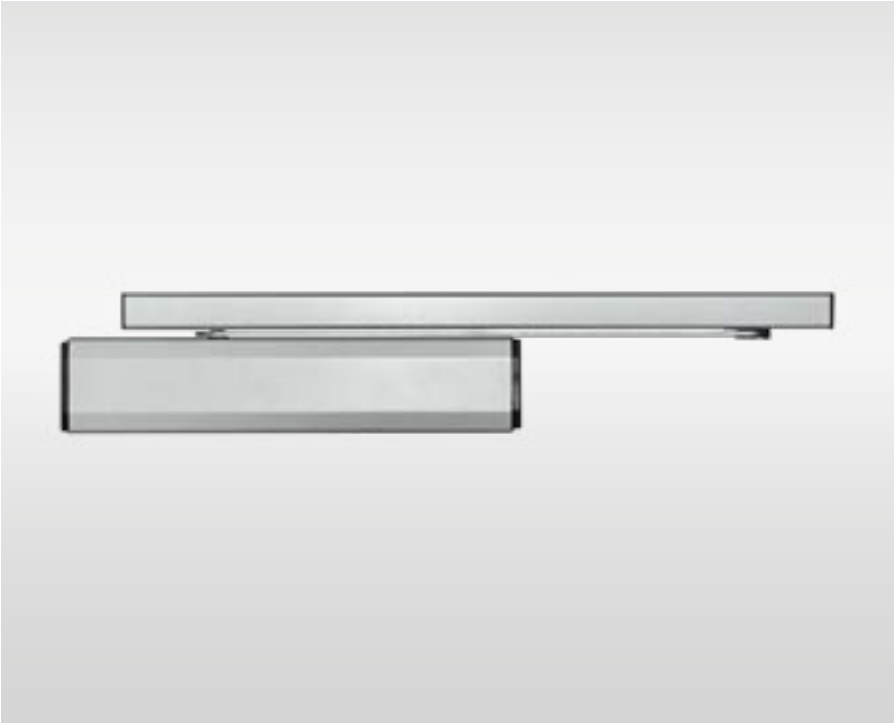
Accessories (optional)

Designation	Finish	Order number	Modular system number		
AD-GS slide rail cover	silver	K-18364-00-0-1	3	Page 27	MORE
	black (RAL 9005)	K-18364-00-0-6			
	white (RAL 9016)	K-18364-00-0-7			
	stainless steel	K-18364-00-0-8			
	special colour	K-18364-00-0-9			
FM mechanical hold-open device with ÖB opening restrictor [1]	–	K-18369-00-0-6	4	Page 28	MORE
MP Mounting plate	–	K-18280-00-0-1	10	Page 34	MORE
ÖB opening restrictor [2]	–	K-18916-00-0-6	11	Page 35	MORE

[1] Not approved for fire and smoke protection doors.
[2] Not required if a mechanical hold-open device (FM) is already installed.

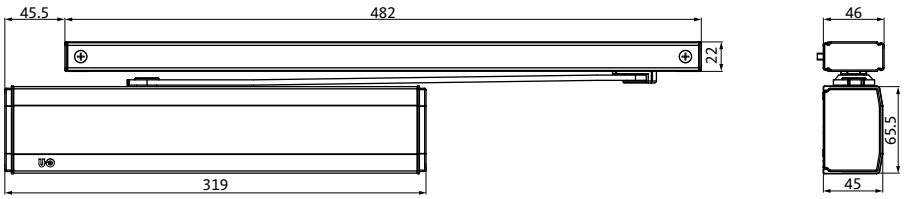
OTS 73x FL / OTS 73x FL BG door closer set

with GS slide rail



Product characteristics

- Solution for 1-leaf doors with door leaf widths up to 1400 mm
- Tested and certified in accordance with EN 1154 and EN 1155
- Tested and approved by DIBt (German Institute of Building Engineering)



Application ranges

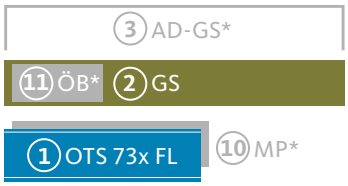
- 1-leaf fire and smoke protection doors
- For 1-leaf swing doors
- Min. door leaf width 600 mm
- Max. door leaf width
  - 1250 mm (OTS 735 FL/OTS 735 FL BG)
  - 1400 mm (OTS 736 FL/OTS 736 FL BG)
- DIN left and DIN right-handed
- **BS variant:**
  - Standard installation on hinge-side (BS)
  - Transom installation on side opposite to hinges (BG)
- **BG variant:**
  - Standard installation on side opposite to hinges (BG)
  - Transom installation on hinge-side (BS)
- Max. door opening and closing angle
  - Standard installation on hinge-side: 180°
  - Standard installation on side opposite to hinges: 120° [1]
- Max. free-swing angle approx. 120°–125
- Greater range of application with side opposite to hinges (BG) due to separate BG variant
  - e.g. opening angle of approx. 113° with an X-dimension of 100 [1] (see page 259)

[1] Depending on installation situation.
Position door stop for max. door opening angle.

EN 1154 | EN 1155 | DIN SPEC 1104 | DIN 18040 | F | CE

OTS 73x FL door closer sets – with slide rail

Hinge side/side opposite to hinges



*Optional accessories

OTS 735 FL door closer set – EN 5 (= door leaf widths up to 1250 mm)

OTS 735 FL door closer (hinge-side) or OTS 735 FL BG door closer (side opposite to hinges) with cover and slide rail

Set consisting of	Finish	Order number		Consisting of module numbers		
		Hinge-side	Side opposite to hinges			
OTS 735 FL door closer (hinge-side) or OTS 735 FL BG door closer (side opposite to hinges) AD-OTS 73x FL cover GS slide rail	silver	K-19270-00-0-1	K-19271-00-0-1	1BS 1BG	1A	2
	black (RAL 9005)	K-19270-00-0-6	K-19271-00-0-6			
	white (RAL 9016)	K-19270-00-0-7	K-19271-00-0-7	Page 24	Page25	Page 26
	special colour	K-19270-00-0-9	K-19271-00-0-9			
				MORE	MORE	MORE

OTS 736 FL door closer set – EN 6 (= door leaf widths up to 1400 mm)

OTS 736 FL door closer (hinge-side) or OTS 736 FL BG door closer (side opposite to hinges) with cover and slide rail

Set consisting of	Finish	Order number		Consisting of module numbers		
		Hinge-side	Side opposite to hinges			
OTS 736 FL door closer (hinge-side) or OTS 736 FL BG door closer (side opposite to hinges) AD-OTS 73x FL cover GS slide rail	silver	K-18388-00-0-1	K-18389-00-0-1	1BS 1BG	1A	2
	black (RAL 9005)	K-18388-00-0-6	K-18389-00-0-6			
	white (RAL 9016)	K-18388-00-0-7	K-18389-00-0-7	Page 24	Page25	Page 26
	special colour	K-18388-00-0-9	K-18389-00-0-9			
				MORE	MORE	MORE

Accessories (optional)

Designation	Finish	Order number	Modular system number		
AD-GS slide rail cover	silver	K-18364-00-0-1	3	Page 27	MORE
	black (RAL 9005)	K-18364-00-0-6			
	white (RAL 9016)	K-18364-00-0-7			
	stainless steel	K-18364-00-0-8			
	special colour	K-18364-00-0-9			
MP mounting plate	–	K-18280-00-0-1	10	Page 34	MORE
ÖB opening restrictor	–	K-18916-00-0-6	11	Page 35	MORE

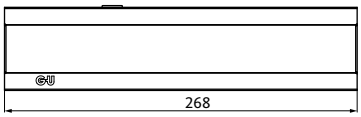
Note: accessories for hold-open systems are listed on pages 212–231.

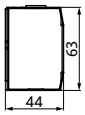
Note: you can find matching cable links on page 242.

OTS 73x / OTS 73x BG door closer set

without slide rail







Product characteristics

- Solution for 1-leaf doors with door leaf widths up to 1400 mm
- Tested and certified in accordance with EN 1154
- For combination with the slide rail sets

Application ranges

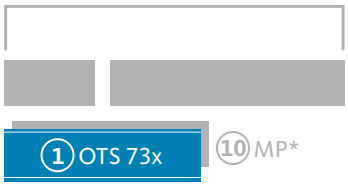
- 1- and 2-leaf fire and smoke protection doors
- 1- and 2-leaf swing doors
- Min. door leaf width 600 mm
- Max. door leaf widths
  - 1250 mm (OTS 735/OTS 735 BG)
  - 1400 mm (OTS 736/OTS 736 BG)
  - 1400 mm (OTS 736 SV/OTS 736 SV BG) [2]
- DIN left and DIN right-handed
- **BS variant:**
  - Standard installation on hinge-side (BS)
  - Transom installation on side opposite to hinges (BG)
- **BG variant:**
  - Standard installation on side opposite to hinges (BG)
  - Transom installation on hinge-side (BS)
- Max. door opening and closing angle
  - Standard installation on hinge-side: 180°
  - Standard installation on side opposite to hinges: 120° [1]
- Greater range of application with side opposite to hinges (BG) due to separate BG variant
  - e.g. opening angle of approx. 113° with an X-dimension of 100 [1] (see page 259)

[1] Depending on installation situation.
Position door stop for max. door opening angle.
[2] Not approved for fire and smoke protection doors.

EN 1154 DIN SPEC 1104 DIN 18040 F CE

OTS 73x door closer sets – without slide rail

Hinge side/side opposite to hinges



*Optional accessories

OTS 735 door closer set – EN 2-5 (= door leaf widths up to 1250 mm)

OTS 735 door closer (hinge-side) or OTS 735 BG door closer (side opposite to hinges) with cover

Set consisting of	Finish	Order number		Consisting of module numbers	
		Hinge-side	Side opposite to hinges		
OTS 735 door closer (hinge-side) or OTS 735 BG door closer (side opposite to hinges) AD-OTS 73x cover	silver	K-18498-00-0-1	K-18499-00-0-1	1BS 1BG	1A
	black (RAL 9005)	K-18498-00-0-6	K-18499-00-0-6		
	white (RAL 9016)	K-18498-00-0-7	K-18499-00-0-7		
	stainless steel	K-18498-00-0-8	K-18499-00-0-8	Page 22	Page 23
	special colour	K-18498-00-0-9	K-18499-00-0-9		
				MORE	MORE

OTS 736 door closer set – EN 3-6 (= door leaf widths up to 1400 mm)

OTS 736 door closer (hinge-side) or OTS 736 BG door closer (side opposite to hinges) with cover

Set consisting of	Finish	Order number		Consisting of module numbers	
		Hinge-side	Side opposite to hinges		
OTS 736 door closer (hinge-side) or OTS 736 BG door closer (side opposite to hinges) AD-OTS 73x cover	silver	K-18500-00-0-1	K-18501-00-0-1	1BS 1BG	1A
	black (RAL 9005)	K-18500-00-0-6	K-18501-00-0-6		
	white (RAL 9016)	K-18500-00-0-7	K-18501-00-0-7		
	stainless steel	K-18500-00-0-8	K-18501-00-0-8	Page 22	Page 23
	special colour	K-18500-00-0-9	K-18501-00-0-9		
				MORE	MORE

OTS 736 SV door closer set [1] – EN 3-6 (= door leaf widths up to 1400 mm)

OTS 736 SV door closer (hinge-side) or OTS 736 SV BG door closer (side opposite to hinges) with cover

Set consisting of	Finish	Order number		Consisting of module numbers	
		Hinge-side	Side opposite to hinges		
OTS 736 SV door closer (hinge-side) or OTS 736 SV BG door closer (side opposite to hinges) AD-OTS 73x cover	silver	K-18502-00-0-1	K-18503-00-0-1	1BS 1BG	1A
	black (RAL 9005)	K-18502-00-0-6	K-18503-00-0-6		
	white (RAL 9016)	K-18502-00-0-7	K-18503-00-0-7		
	stainless steel	K-18502-00-0-8	K-18503-00-0-8	Page 22	Page 23
	special colour	K-18502-00-0-9	K-18503-00-0-9		
				MORE	MORE

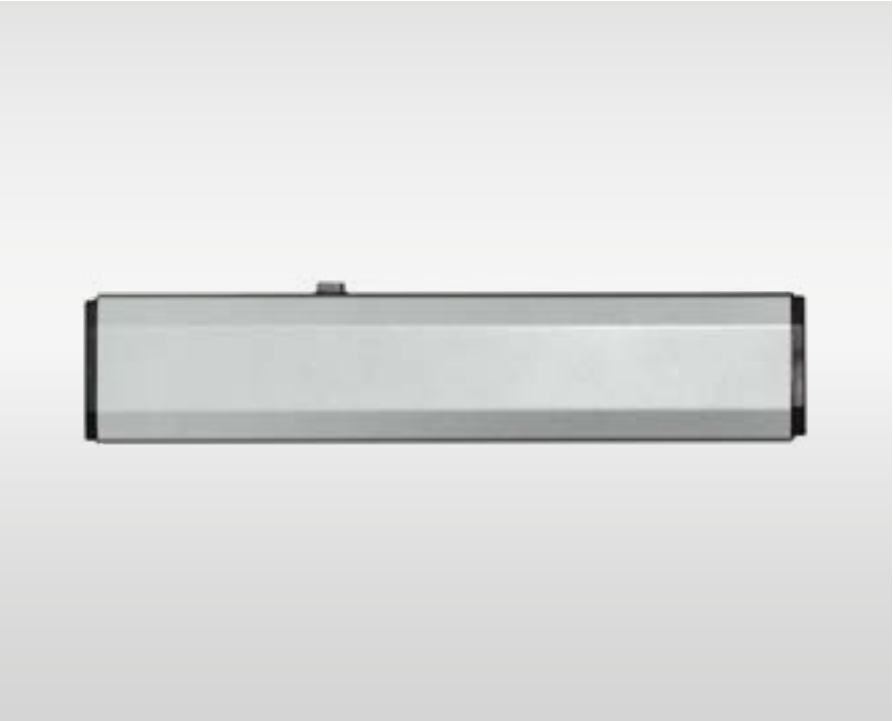
Accessories (optional)

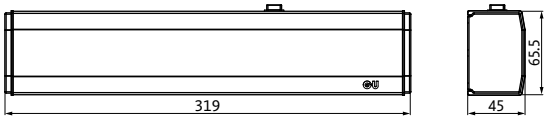
Designation	Finish	Order number	Modular system number	
MP mounting plate	–	K-18280-00-0-1	10	MORE

[1] Not approved for fire and smoke protection doors.

OTS 73x FL / OTS 73x FL BG door closer set

without slide rail





Product characteristics

- Solution for 1-leaf doors with door leaf widths up to 1400 mm
- Tested and certified in accordance with EN 1154 and EN 1155
- Tested and approved by DIBt (German Institute of Building Engineering)
- For combination with the slide rail sets

Application ranges

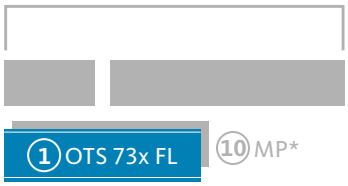
- 1- and 2-leaf fire and smoke protection doors
- 1- and 2-leaf swing doors
- Min. door leaf width 600 mm
- Max. door leaf width
  - 1250 mm (OTS 735 FL/OTS 735 FL BG)
  - 1400 mm (OTS 736 FL/OTS 736 FL BG)
- DIN left and DIN right-handed
- **BS variant:**
  - Standard installation on hinge-side (BS)
  - Transom installation on side opposite to hinges (BG)
- **BG variant:**
  - Standard installation on side opposite to hinges (BG)
  - Transom installation on hinge-side (BS)
- Max. door opening and closing angle
  - Standard installation on hinge-side: 180°
  - Standard installation on side opposite to hinges: 120° [1]
- Max. free-swing angle approx. 120°–125°
- Greater range of application with side opposite to hinges (BG) due to separate BG variant
  - e.g. opening angle of approx. 113° with an X-dimension of 100 [1] (see page 259)

[1] Depending on installation situation. Position door stop for max. door opening angle.

EN 1154 EN 1155 DIN SPEC 1104 DIN 18040 F CE

OTS 73x FL door closer sets – without slide rail

Hinge side/side opposite to hinges



*Optional accessories

OTS 735 FL door closer set – EN 5 (= door leaf widths up to 1250 mm)

OTS 735 FL door closer (hinge-side) or OTS 735 FL BG door closer (side opposite to hinges) with cover

Set consisting of	Finish	Order number		Consisting of module numbers	
		Hinge-side	Side opposite to hinges		
OTS 735 FL door closer (hinge-side) or OTS 735 FL BG door closer (side opposite to hinges) AD-OTS 73x FL cover	silver	K-19268-00-0-1	K-19269-00-0-1	1BS 1BG	1A
	black (RAL 9005)	K-19268-00-0-6	K-19269-00-0-6		
	white (RAL 9016)	K-19268-00-0-7	K-19269-00-0-7		
	stainless steel	K-19268-00-0-8	K-19269-00-0-8	Page 24	Page 25
	special colour	K-19268-00-0-9	K-19269-00-0-9		
				MORE	MORE

OTS 736 FL door closer set – EN 6 (= door leaf widths up to 1400 mm)

OTS 736 FL door closer (hinge-side) or OTS 736 FL BG door closer (side opposite to hinges) with cover

Set consisting of	Finish	Order number		Consisting of module numbers	
		Hinge-side	Side opposite to hinges		
OTS 736 FL door closer (hinge-side) or OTS 736 FL BG door closer (side opposite to hinges) AD-OTS 73x FL cover	silver	K-18504-00-0-1	K-18505-00-0-1	1BS 1BG	1A
	black (RAL 9005)	K-18504-00-0-6	K-18505-00-0-6		
	white (RAL 9016)	K-18504-00-0-7	K-18505-00-0-7		
	stainless steel	K-18504-00-0-8	K-18505-00-0-8	Page 24	Page 25
	special colour	K-18504-00-0-9	K-18505-00-0-9		
				MORE	MORE

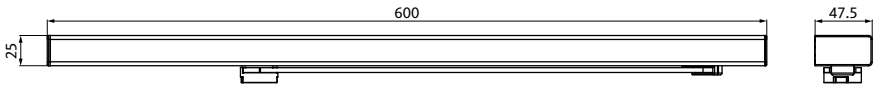
Accessories (optional)

Designation	Finish	Order number	Modular system number	
MP mounting plate	–	K-18280-00-0-1	10	MORE

GS FE-OTS 73x slide rail set

with FE electromechanical hold-open device





Product characteristics

- Solution for 1-leaf doors with door leaf widths up to 1400 mm
- Tested and certified in accordance with EN 1155
- Tested and approved by DIBt (German Institute of Building Engineering)

FE electromechanical hold-open device

Device that allows a door to be held open at a chosen angle until it is closed electrically

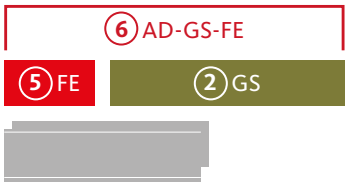
- Pre-mounted laterally on the slide rail
- With continuous slide rail cover
- **Technical data**
  - Operating voltage: 24 V DC
  - Power consumption: 1.9 W
  - Duty ratio: 100 %

Set consisting of:

Modular system Details of the individual modular components			
2	GS slide rail	Page 26	MORE
5	FE electromechanical hold-open device	Page 29	MORE
6	AD-GS-FE cover for electromechanical hold-open device	Page 30	MORE

OTS 73x series of door closers

- Door closers in the OTS 73x series are **not included** in the scope of delivery of the slide rail set and **must be ordered separately**.
- You can find relevant order information on pages 40–43.



OTS 73x door closer to be ordered separately

GS FE-OTS 73x slide rail set [1]
Slide rail and electromechanical hold-open with cover

Set consisting of	Finish	Order number	Modular system number
GS slide rail FE electromechanical hold-open device AD-GS-FE cover for electromechanical hold-open device	silver	K-18352-00-0-1	2 5 6
	black (RAL 9005)	K-18352-00-0-6	
	white (RAL 9016)	K-18352-00-0-7	
	stainless steel	K-18352-00-0-8	
	special colour	K-18352-00-0-9	

Note: accessories for hold-open systems are listed on pages 212–231.

Application ranges

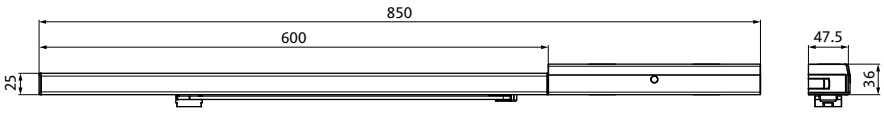
- 1-leaf fire and smoke protection doors
- 1-leaf swing doors
- Hold-open angle 85° – 140° steplessly adjustable
- Min. door leaf width 600 mm
- Max. door leaf widths
  – 1250 mm (OTS 735/OTS 735 BG)
  – 1400 mm (OTS 736/OTS 736 BG)
- DIN left and DIN right-handed
- For use on hinge-side and side opposite to hinges
- Greater range of application with side opposite to hinges (BG) due to separate BG variant
  – e.g. opening angle of approx. 113° with an X-dimension of 100 [1] (see page 259)

[1] Door closers must be ordered separately – for order information refer to pages 40–43.

GS FER-OTS 73x slide rail set

Hold-open systems for 1-leaf fire rated doors with electromechanical hold-open and smoke switch module





Product features

- Solution for 1-leaf doors with door leaf widths up to 1400 mm
- Tested and certified in accordance with EN 1155
- Tested and approved by DIBt (German Institute of Building Engineering)

FE electromechanical hold-open device

Device that allows a door to be held open at a chosen angle until it is closed electrically

- Pre-mounted laterally on the slide rail
- **Technical data**
  - Operating voltage: 24 V DC
  - Power consumption: 1.9 W
  - Duty ratio: 100 %

RSM-H smoke switch module

For supplying electricity to all components of a hold-open system

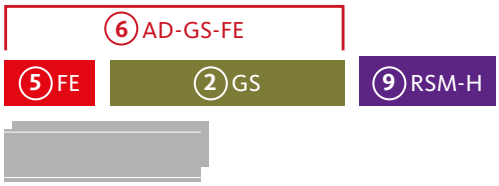
- **Technical data**
  - Nominal input voltage: 230 V ~, 50/60 Hz
  - Operating voltage: 24 V DC
  - Output current: max. 435 mA
  - Power consumption: 27.2 VA
  - Power output: max. 10.4 W

Set consisting of:

Modular system Details of the individual modular components			
2	GS slide rail	Page 26	MORE
5	Electromechanical hold-open device (FE)	Page 29	MORE
6	AD-GS-FE cover for electromechanical hold-open device	Page 30	MORE
9	RSM-H smoke switch module	Page 33	MORE

OTS 73x series of door closers

- Door closers in the OTS 73x series are **not included** in the scope of delivery of the slide rail set and **must be ordered separately**.
- You can find relevant order information on pages 40–43.



OTS 73x door closer to be ordered separately

GS FER-OTS 73x slide rail set [1]

Slide rail, electromechanical hold-open device with cover and smoke switch module

Set consisting of	Finish	Order number	Modular system number
GS slide rail FE electromechanical hold-open device AD-GS-FE cover for electromechanical hold-open device RSM-H smoke switch module	silver	K-18353-00-0-1	2 5 6 9
	black (RAL 9005)	K-18353-00-0-6	
	white (RAL 9016)	K-18353-00-0-7	
	stainless steel	K-18353-00-0-8	
	special colour	K-18353-00-0-9	

Note: accessories for hold-open systems are listed on pages 212–231.

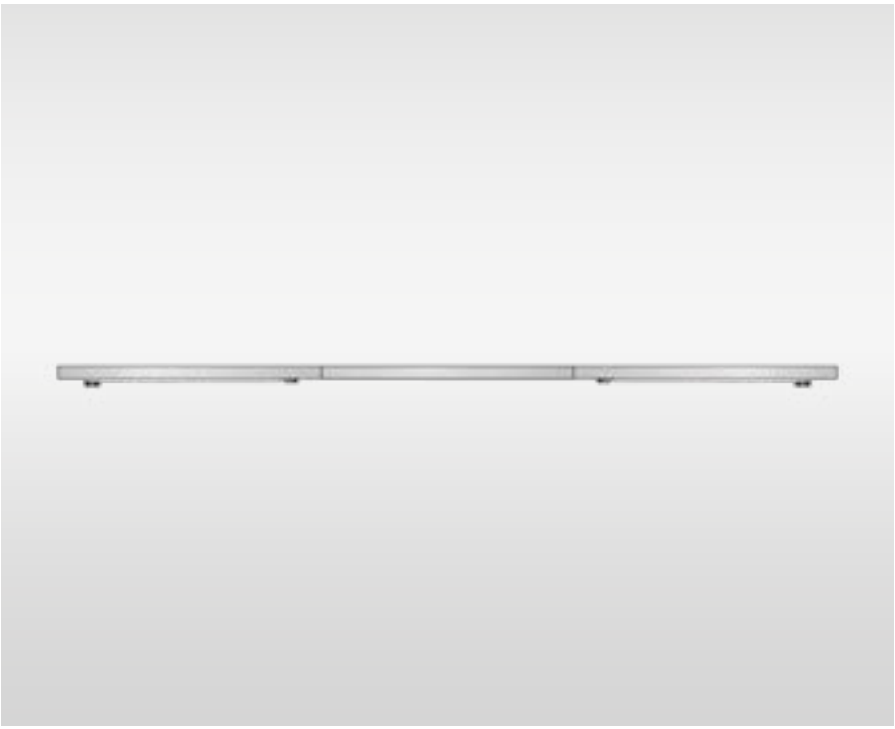
Application ranges

- 1-leaf fire and smoke protection doors
- 1-leaf swing doors
- Hold-open angle 85° – 140° steplessly adjustable
- Min. door leaf widths
  – 840/870 mm (BS/BG)
- Max. door leaf widths
  – 1250 mm (OTS 735/OTS 735 BG)
  – 1400 mm (OTS 736/OTS 736 BG)
- DIN left and DIN right-handed
- For use on hinge-side and side opposite to hinges
- Greater range of application with side opposite to hinges (BG) due to separate BG variant
  – e.g. opening angle of approx. 113° with an X-dimension of 100 [1] (see page 259)

[1] Door closers must be ordered separately – for order information refer to pages 40–43.

GS SRI-OTS 73x slide rail set

with SRI door-leaf coordinator



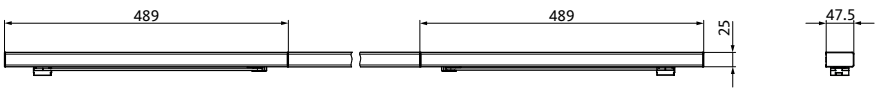


Illustration: Slide rail set GS SRI-OTS 73x

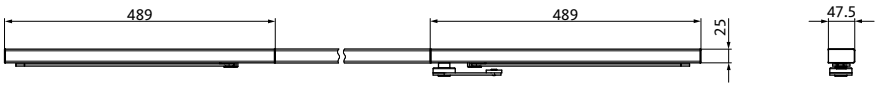


Illustration: Slide rail set GS SRI-OTS 73x BG

Product characteristics

- Solution for 2-leaf doors with total door leaf widths up to 2800 mm
- Tested and certified in accordance with EN 1158

SRI door-leaf coordinator

- Mechanical door-leaf coordinator (SRI) integrated into the slide rail to ensure doors are closed safely and in the correct sequence at all times

Set consisting of:

Modular system Details of the individual modular components			
2 x 2	GS slide rail	Page 26	MORE
2 x 3	AD-GS slide rail cover	Page 27	MORE
1 x 7BS 7BG	SRI or SRI-BG door-leaf coordinator	Page 31	MORE
1 x 8	AD-SRI cover for door-leaf coordinator	Page 32	MORE

Door closer

- The door closers **are not included** in the scope of delivery of the slide rail set and **must be ordered separately.**
- When used in combination with the slide rail set, two door closers must always be ordered.
- You can find relevant order information on pages 40–43 (OTS 73x or on pages 78–79 (OTS 634x).

Application ranges

- 2-leaf fire and smoke protection doors
- 2-leaf swing doors
- Min. total door leaf widths:
  – 1430/1475 mm (BS/BG)
- Max. total door leaf widths:
  – 2200 mm (OTS 634x)
  – 2500 mm (OTS 735/OTS 735 BG)
  – 2800 mm (OTS 736/OTS 736 BG)
- Min. single door leaf width of inactive leaf: 400/600 mm (BS/BG)
- Standard installation on hinge-side and side opposite to hinges [2]
- Max. door opening and closing angle
  – Standard installation on hinge-side: 180°
  – Standard installation on side opposite to hinges: 120° [1]
- Greater range of application with side opposite to hinges (BG) due to separate BG variant
  – e.g. opening angle of approx. 113° with an X-dimension of 100 mm [1] (see page 259)

SRI-OTS 73x door-leaf coordinator for use on 2-leaf full-panic doors in escape and rescue routes

A suitable carrier bar must always be used with 2-leaf full-panic doors installed in escape and rescue routes. This ensures that when the door is opened via the inactive leaf (in emergency situations), the active leaf is carried at least as far as the beginning of the action range of the (SRI-OTS 73x) door-leaf coordinator.

For the corresponding application diagram and additional information on the carrier bar, refer to pages 238–241.

[1] Depending on installation situation. Position door stop for max. door opening angle.

[2] Installation on the side opposite to hinges is only possible with door closers from the OTS 73x series.

EN 1158

GS SRI-OTS 73x slide rail set

Hinge-side



Door closer to be ordered separately

Door closer to be ordered separately

*Optional accessories

GS SRI-OTS 73x slide rail set [1]

Slide rails, door-leaf coordinators, covers

Set consisting of	Finish	Order number	Consisting of module numbers
2 x GS slide rail 2 x AD-GS slide rail cover 1 x SRI door-leaf coordinator (without microswitch) 1 x AD-SRI cover for door-leaf coordinator	silver	K-18354-00-0-1	2 3 7BS 8
	black (RAL 9005)	K-18354-00-0-6	
	white (RAL 9016)	K-18354-00-0-7	
	stainless steel	K-18354-00-0-8	
	special colour	K-18354-00-0-9	

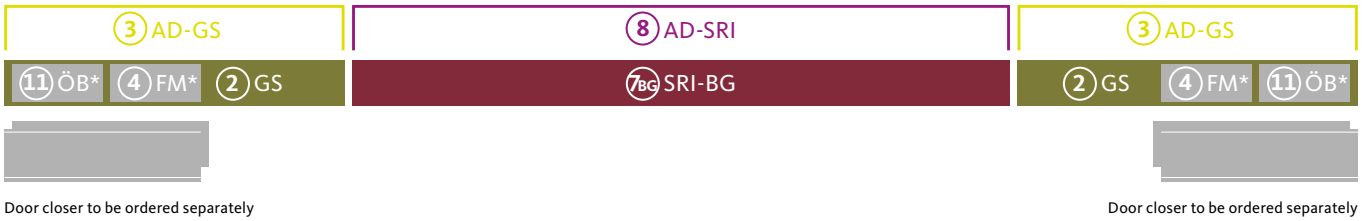
Accessories (optional)

Designation	Finish	Order number	Modular system number
FM mechanical hold-open device with ÖB opening restrictor [2]	–	K-18369-00-0-6	4
ÖB opening restrictor [3]	–	K-18916-00-0-6	11

[1] Door closers must be ordered separately – for order information refer to pages 40–43 (OTS 73x) or to pages 78–79(OTS 634x).
[2] Not approved for fire and smoke protection doors.
[3] Not required if a mechanical hold-open device (FM) is already installed.

GS SRI-OTS 73x BG slide rail set

Side opposite to hinges



Door closer to be ordered separately

Door closer to be ordered separately

*Optional accessories

Slide rail set GS SRI-OTS 73x BG [1]

Slide rails, door-leaf coordinators, covers

Set consisting of	Finish	Order number	Consisting of module numbers
2 x GS slide rail 2 x AD-GS slide rail cover 1 x SRI-BG door-leaf coordinator (without microswitch) 1 x AD-SRI cover for door-leaf coordinator	silver	K-18357-00-0-1	2 3 7BG 8
	black (RAL 9005)	K-18357-00-0-6	
	white (RAL 9016)	K-18357-00-0-7	
	stainless steel	K-18357-00-0-8	
	special colour	K-18357-00-0-9	

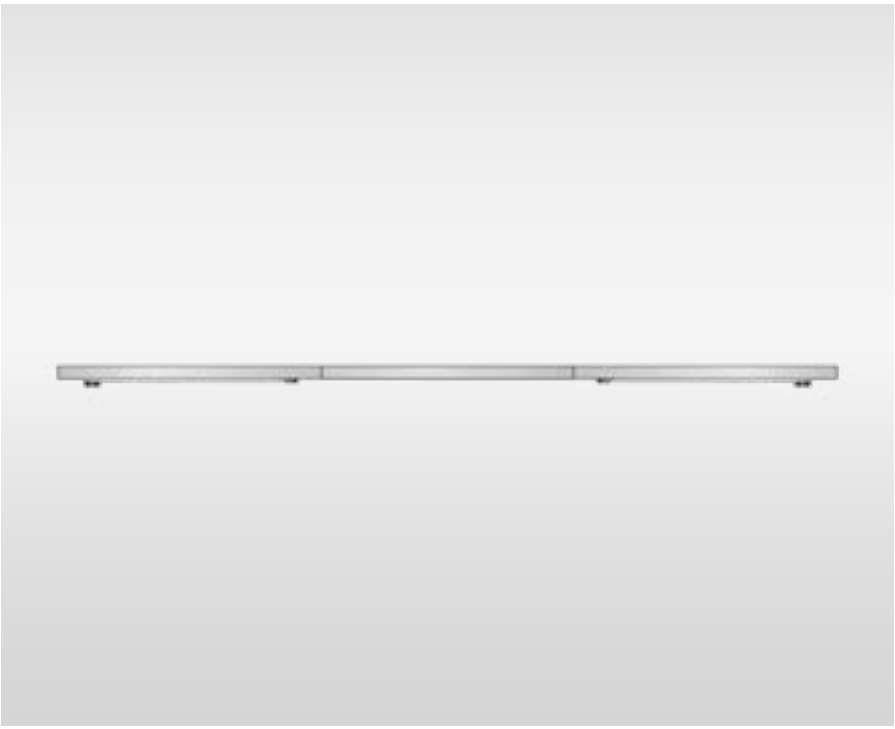
Accessories (optional)

Designation	Finish	Order number	Modular system number
FM mechanical hold-open device with ÖB opening restrictor [2]	–	K-18369-00-0-6	4
ÖB opening restrictor [3]	–	K-18916-00-0-6	11

[1] Door closers must be ordered separately – for order information refer to pages 40–43 (OTS 73x).
[2] Not approved for fire and smoke protection doors.
[3] Not required if a mechanical hold-open device (FM) is already installed.

GS FE-SRI-OTS 73x slide rail set

with SRI door-leaf coordinator and FE electromechanical hold-open device



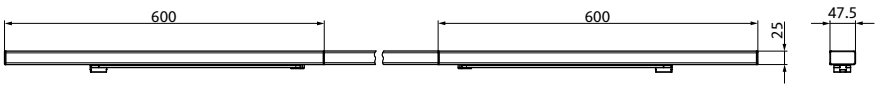


Illustration: Slide rail set GS FE-SRI-OTS 73x

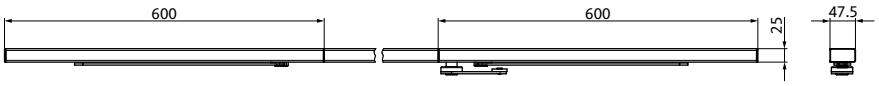


Illustration: Slide rail set GS FE-SRI-OTS 73x BG

Product characteristics

- Solution for 2-leaf doors with total door leaf widths up to 2800 mm
- Tested and certified in accordance with EN 1155 and EN 1158
- Tested and approved by DIBt (German Institute of Building Engineering)

SRI door-leaf coordinator

- Mechanical door-leaf coordinator (SRI) integrated into the slide rail to ensure doors are closed safely and in the correct sequence at all times
- Microswitch in the active leaf supplied as standard: guarantees that the inactive leaf closes if the active leaf is manually unlatched from the hold-open position.

FE electromechanical hold-open device

- Device that is integrated and pre-mounted In the slide rail and allows a door to be held open at a chosen angle until it is closed electrically
- Set contains: 2 hold-open devices, electromechanical (FE); one for active and inactive leaf respectively
- The active leaf can be held open independently of the inactive leaf at any time

Cover

- Door-leaf coordinator and electromechanical hold-open device integrated under continuous cover

Set consisting of:

Modular system Details of the individual modular components			
2 x 2	GS slide rail	Page 26	MORE
2 x 5	FE electromechanical hold-open device	Page 29	MORE
2 x 6	AD-GS-FE cover for electromechanical hold-open device	Page 30	MORE
1 x 7BS 7BG	SRI or SRI-BG door-leaf coordinator	Page 31	MORE
1 x 8	AD-SRI cover for door-leaf coordinator	Page 32	MORE

Door closer

- The door closers **are not included** in the scope of delivery of the slide rail set and **must be ordered separately.**
- When used in combination with the slide rail set, two door closers must always be ordered.
- You can find relevant order information on pages 40–43 (OTS 73x or on pages 78–79 (OTS 634x).

Application ranges

- 2-leaf fire and smoke protection doors
- Min. total door leaf widths:
  – 1430 mm/1475 mm (BS/BG)
- Max. total door leaf widths:
  – 2200 mm (OTS 634x)
  – 2500 mm (OTS 735/OTS 735 BG)
  – 2800 mm (OTS 736/OTS 736 BG)
- Min. single door leaf width of inactive leaf: 400/600 mm (BS/BG)
- Hold-open angle 85°–140° steplessly adjustable [1]
- Standard installation on hinge-side and side opposite to hinges [2]
- Max. door opening and closing angle
  – Standard installation on hinge-side: 180°
  – Standard installation on side opposite to hinges: 120° [1]
- Greater range of application with side opposite to hinges (BG) due to separate BG variant
  – e.g. opening angle of approx. 113° with an X-dimension of 100 mm [1] (see page 259)

SRI-OTS 73x door-leaf coordinator for use on 2-leaf full-panic doors in escape and rescue routes

A suitable carrier bar must always be used with 2-leaf full-panic doors installed in escape and rescue routes. This ensures that when the door is opened via the inactive leaf (in emergency situations), the active leaf is carried at least as far as the beginning of the action range of the (SRI-OTS 73x) door-leaf coordinator.

For the corresponding application diagram and additional information on the carrier bar, refer to pages 238–241.

[1] Depending on installation situation. Position door stop for max. door opening angle.

[2] Installation on the side opposite to hinges is only possible with door closers from the OTS 73x series.

GS FE-SRI-OTS 73x slide rail set

Hinge-side



Door closer to be ordered separately

Door closer to be ordered separately

GS FE-SRI-OTS 73x slide rail set [1]

Slide rails, electromechanical hold-open devices, door-leaf coordinators, covers

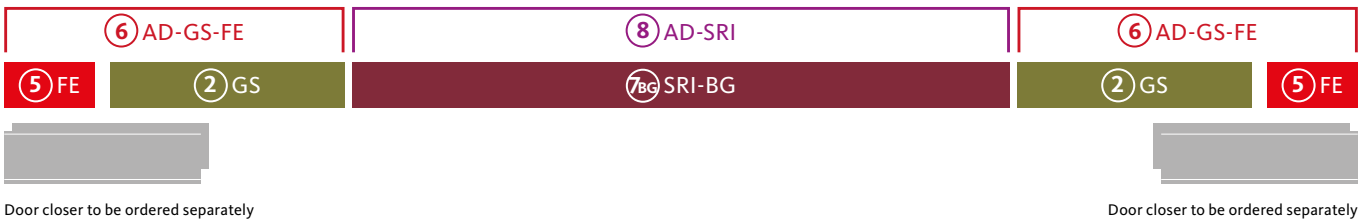
Set consisting of	Finish	Order number	Consisting of module numbers
2 x GS slide rail 2 x FE electromechanical hold-open device 2 x AD-GS-FE cover for electromechanical hold-open device 1 x SRI door-leaf coordinator (with microswitch) 1 x AD-SRI cover for door-leaf coordinator	silver	K-18355-00-0-1	2 5 6 7BS 8
	black (RAL 9005)	K-18355-00-0-6	
	white (RAL 9016)	K-18355-00-0-7	
	stainless steel	K-18355-00-0-8	
	special colour	K-18355-00-0-9	

Note: accessories for hold-open systems are listed on pages 212–231.

[1] Door closers must be ordered separately – for order information refer to pages 40–43 (OTS 73x) or to pages 78–79 (OTS 634x).

GS FE-SRI-OTS 73x BG slide rail set

Side opposite to hinges



GS FE-SRI-OTS 73x BG slide rail set [1]

Slide rails, electromechanical hold-open devices, door-leaf coordinators, covers

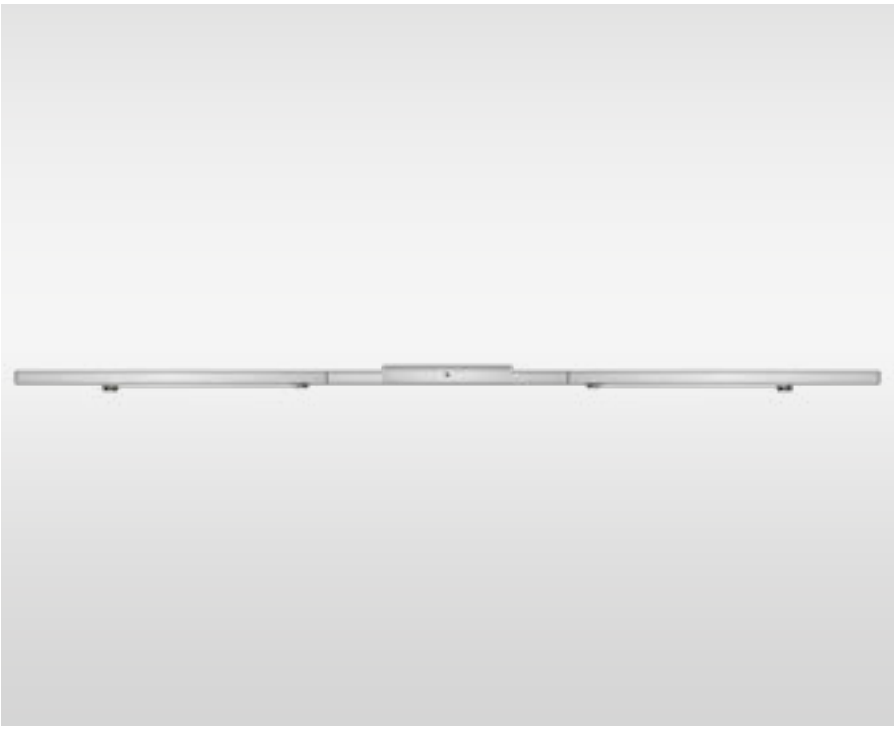
Set consisting of	Finish	Order number	Consisting of module numbers
2 x GS slide rail 2 x FE electromechanical hold-open device 2 x AD-GS-FE cover for electromechanical hold-open device 1 x SRI-BG door-leaf coordinator (with microswitch) 1 x AD-SRI cover for door-leaf coordinator	silver	K-18358-00-0-1	2 5 6 7BG 8
	black (RAL 9005)	K-18358-00-0-6	
	white (RAL 9016)	K-18358-00-0-7	
	stainless steel	K-18358-00-0-8	
	special colour	K-18358-00-0-9	

Note: accessories for hold-open systems are listed on pages 212–231.

[1] Door closers must be ordered separately – for order information refer to pages 40–43 (OTS 73x).

GS FER-SRI-OTS 73x slide rail set

Hold-open system for double-leaf fire rated doors, with door-leaf coordinator, electromechanical hold-open device and smoke switch module



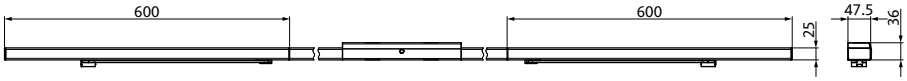


Illustration 1: GS FER-SRI-OTS 73x slide rail set – RSM-H smoke switch module mounted centrally

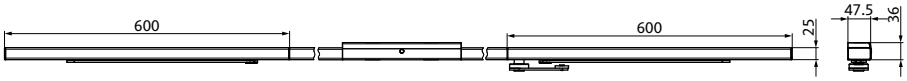


Illustration 1: GS FER-SRI-OTS 73x BG slide rail set – RSM-H smoke switch module mounted centrally

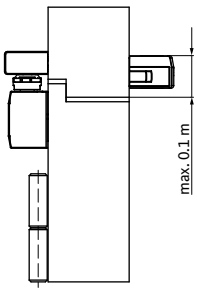


Illustration 2:

GS FER-SRI-OTS 73x slide rail set

RSM-H smoke switch module mounted on opposite side (on the side opposite the hinges in this case)

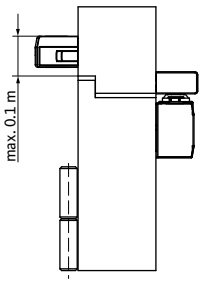


Illustration 2:

GS FER-SRI-OTS 73x BG slide rail set

RSM-H smoke switch module mounted on opposite side (on the hinge-side in this case)

Product characteristics

- Solution for 2-leaf doors with total door leaf widths up to 2800 mm
- Tested and certified in accordance with EN 1155 and EN 1158
- Tested and approved by DIBt according to the guidelines for hold-open systems

SRI door-leaf coordinator

- Mechanical door-leaf coordinator (SRI) integrated into the slide rail to ensure doors are closed safely and in the correct sequence at all times
- Microswitch in the active leaf supplied as standard: guarantees that the inactive leaf closes if the active leaf is manually unlatched from the hold-open position.

FE electromechanical hold-open device

- Device that is integrated and pre-mounted In the slide rail and allows a door to be held open at a chosen angle until it is closed electrically
- Set contains: 2 hold-open devices, electromechanical (FE); one for active and inactive leaf respectively
- The active leaf can be held open independently of the inactive leaf at any time

Cover

- Door-leaf coordinator and electromechanical hold-open device integrated under continuous cover

RSM-H smoke switch module

- For supplying electricity to all components of a hold-open system

Set consisting of:

Modular system Details of the individual modular components			
2 x 2	GS slide rail	Page 26	MORE
2 x 5	FE electromechanical hold-open device	Page 29	MORE
2 x 6	AD-GS-FE cover for electromechanical hold-open device	Page 30	MORE
1 x 7BS 7BG	SRI or SRI-BG door-leaf coordinator	Page 31	MORE
1 x 8	AD-SRI cover for door-leaf coordinator	Page 32	MORE
1 x 9	RSM-H smoke switch module	Page 33	MORE

Door closer

- The door closers **are not included** in the scope of delivery of the slide rail set and **must be ordered separately.**
- When used in combination with the slide rail set, two door closers must always be ordered.
- You can find relevant order information on pages 40–43 (OTS 73x or on pages 78–79 (OTS 634x).

Application ranges

- 2-leaf fire and smoke protection doors
- Min. total door leaf widths:
  - **Illustration 1:** 1725 mm/1770 mm (BS/BG)
  - **Illustration 2:** 1430 mm/1475 mm (BS/BG)
- Max. total door leaf widths:
  - 2200 mm (OTS 634x)
  - 2500 mm (OTS 735/OTS 735 BG)
  - 2800 mm (OTS 736/OTS 736 BG)
- Min. single door leaf width of inactive leaf: 400/600 mm (BS/BG)
- Hold-open angle 85°–140° steplessly adjustable [1]
- Standard installation on hinge-side and side opposite to hinges [2]
- Max. door opening and closing angle
  - Standard installation on hinge-side: 180°
  - Standard installation on side opposite to hinges: 120° [1]
- Greater range of application with side opposite to hinges (BG) due to separate BG variant
  - e.g. opening angle of approx. 113° with an X-dimension of 100 mm [1] (see page 259)

SRI-OTS 73x door-leaf coordinator for use on 2-leaf full-panic doors in escape and rescue routes

A suitable carrier bar must always be used with 2-leaf full-panic doors installed in escape and rescue routes. This ensures that when the door is opened via the inactive leaf (in emergency situations), the active leaf is carried at least as far as the beginning of the action range of the (SRI-OTS 73x) door-leaf coordinator.

For the corresponding application diagram and additional information on the carrier bar, refer to pages 238–241.

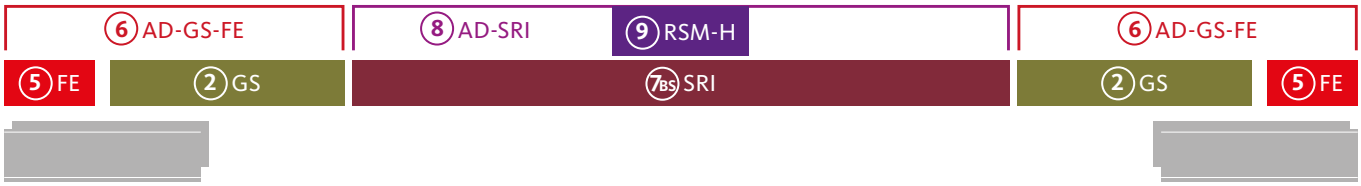
[1] Depending on installation situation. Position door stop for max. door opening angle.

[2] Installation on the side opposite to hinges is only possible with door closers from the OTS 73x series.

EN 1155 EN 1158 F CE

GS FER-SRI-OTS 73x slide rail set

Hinge-side



Door closer to be ordered separately

Door closer to be ordered separately

GS FER-SRI-OTS 73x slide rail set [1]

Slide rails, electromechanical hold-open devices, door-leaf coordinators, covers, smoke switch module

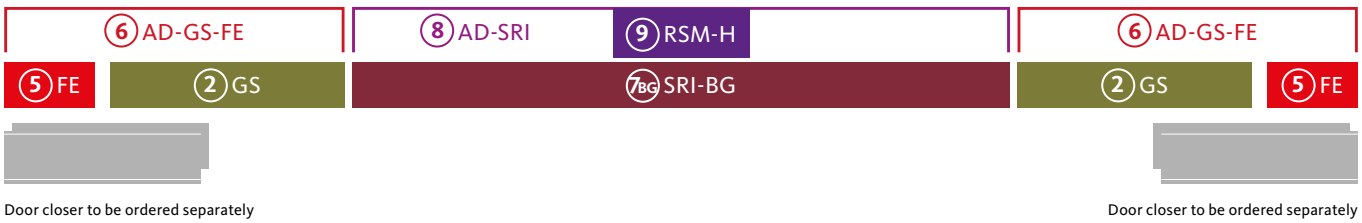
Set consisting of	Finish	Order number	Consisting of module numbers
2 x GS slide rail 2 x FE electromechanical hold-open device 2 x AD-GS-FE cover for electromechanical hold-open device 1 x SRI door-leaf coordinator (with microswitch) 1 x AD-SRI cover for door-leaf coordinator 1 x RSM-H smoke switch module	silver	K-18356-00-0-1	2 5 6 7BS 8 9
	black (RAL 9005)	K-18356-00-0-6	
	white (RAL 9016)	K-18356-00-0-7	
	stainless steel	K-18356-00-0-8	
	special colour	K-18356-00-0-9	

Note: accessories for hold-open systems are listed on pages 212–231.

[1] Door closers must be ordered separately – for order information refer to pages 40–43 (OTS 73x) or to pages 78–79 (OTS 634x).

GS FER-SRI-OTS 73x BG slide rail set

Side opposite to hinges



Door closer to be ordered separately

Door closer to be ordered separately

GS FER-SRI-OTS 73x BG slide rail set [1]

Slide rails, electromechanical hold-open devices, door-leaf coordinators, covers, smoke switch module

Set consisting of	Finish	Order number	Consisting of module numbers
2 x GS slide rail 2 x FE electromechanical hold-open device 2 x AD-GS-FE cover for electromechanical hold-open device 1 x SRI-BG door-leaf coordinator (with microswitch) 1 x AD-SRI cover for door-leaf coordinator 1 x RSM-H smoke switch module	silver	K-18359-00-0-1	2 5 6 7BG 8 9
	black (RAL 9005)	K-18359-00-0-6	
	white (RAL 9016)	K-18359-00-0-7	
	stainless steel	K-18359-00-0-8	
	special colour	K-18359-00-0-9	

Note: accessories for hold-open systems are listed on pages 212–231.

[1] Door closers must be ordered separately – for order information refer to pages 40–43 (OTS 73x).

OTS 73x series – Accessories

Mounting plates

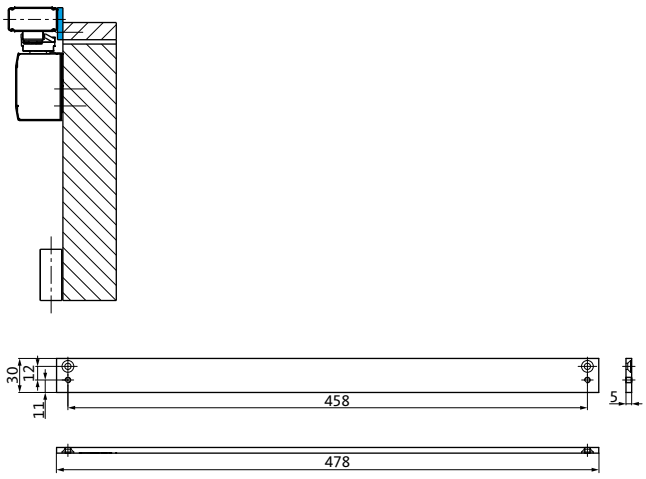


Fig.: Mounting plate 30 mm

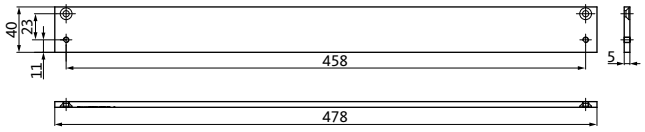


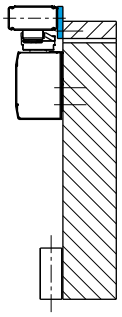
Fig.: Mounting plate 40 mm

GS-OTS 73x mounting plate

for installation of the GS slide rail

Versions/Order numbers

Designation	Height [mm]	Finish	Order number
GS-OTS 73x mounting plate	30	silver	K-18524-00-0-1
		black (RAL 9005)	K-18524-00-0-6
		white (RAL 9016)	K-18524-00-0-7
		special colour	K-18524-00-0-9
	40	silver	K-18524-23-0-1
		black (RAL 9005)	K-18524-23-0-6
		white (RAL 9016)	K-18524-23-0-7
		special colour	K-18524-23-0-9



GS-SRI-OTS 73x mounting plate

for installation of AD-SRI cover for door-leaf coordinator on double-leaf elements

Versions/Order numbers

Designation	Height [mm]	Finish	Order number
GS-SRI-OTS 73x mounting plate	30	silver	K-19502-12-0-1
		black (RAL 9005)	K-19502-12-0-6
		white (RAL 9016)	K-19502-12-0-7
		special colour	K-19502-12-0-9
	40	silver	K-19502-23-0-1
		black (RAL 9005)	K-19502-23-0-6
		white (RAL 9016)	K-19502-23-0-7
		special colour	K-19502-23-0-9

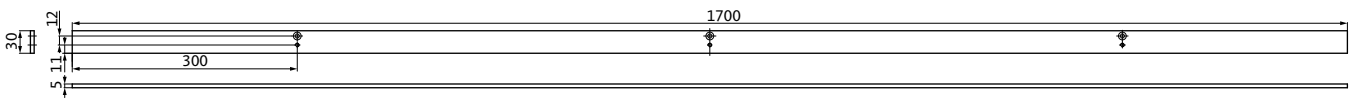


Fig.: Mounting plate 30 mm

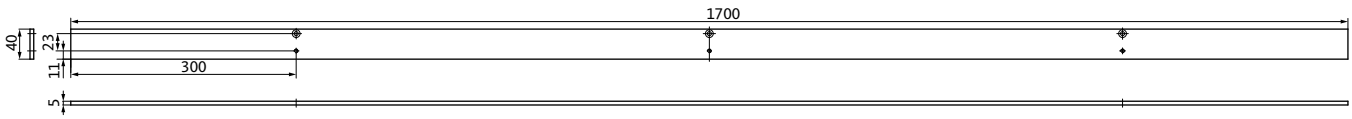
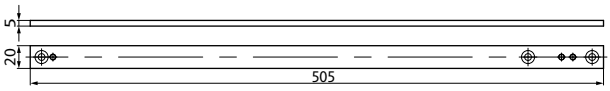


Fig.: Mounting plate 40 mm

OTS 73x series – Accessories

Mounting plates (exchange)



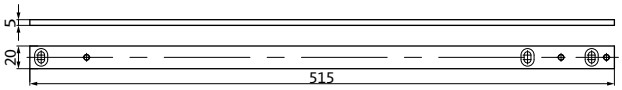
MP GS-OTS 73x NM BS exchange mounting plate

for installation of the GS slide rail

Standard installation on hinge-side

Versions/Order numbers

Designation	Height [mm]	Finish	Part number
MP GS-OTS 73x NM BS mounting plate	20	silver	K-20567-00-0-1
		black (RAL 9005)	K-20567-00-0-6
		white (RAL 9016)	K-20567-00-0-7
		special colour	K-20567-00-0-9



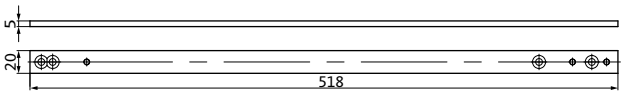
MP GS-OTS 73x NM BG exchange mounting plate

for installation of the slide rail GS

Installation type: Standard installation on side opposite to hinges

Versions/Order numbers

Designation	Height [mm]	Finish	Part number
MP GS-OTS 73x NM BG mounting plate	20	silver	K-20568-00-0-1
		black (RAL 9005)	K-20568-00-0-6
		white (RAL 9016)	K-20568-00-0-7
		special colour	K-20568-00-0-9



MP GS-OTS 73x KM BG exchange mounting plate

for installation of the GS slide rail

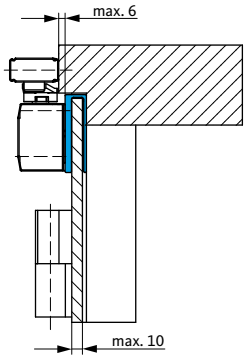
Transom installation on side opposite to hinges

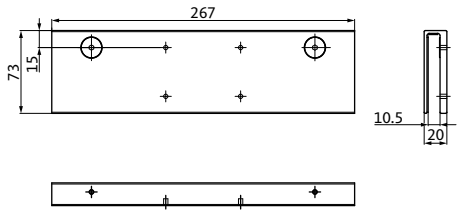
Versions/Order numbers

Designation	Height [mm]	Finish	Part number
MP GS-OTS 73x KM BG mounting plate	20	silver	K-20569-00-0-1
		black (RAL 9005)	K-20569-00-0-6
		white (RAL 9016)	K-20569-00-0-7
		special colour	K-20569-00-0-9

OTS 73x series – Accessories

Clamping plate, flat plate



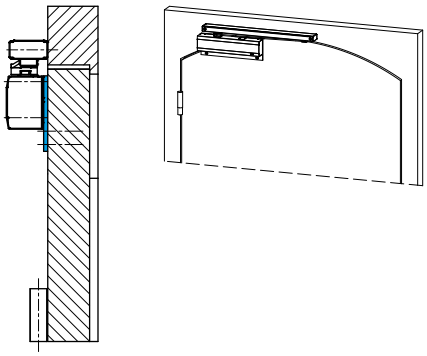


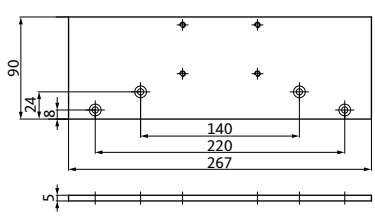
Clamping plate for OTS 73x

for installation of the OTS 73x door closer on all-glass doors up to 10 mm thick

Versions/Order numbers

Designation	Finish	Order number
Clamping plate for OTS 73x door closer	silver	K-18526-00-0-1
	special colour	K-18526-00-0-9





Flat plate for OTS 73x

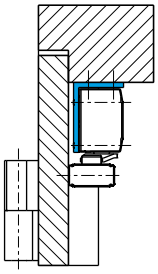
for installation of the OTS 73x door closer on segmental arch head doors with segmental arch heads up to 130 mm

Versions/Order numbers

Designation	Finish	Order number
Flat plate for OTS 73x door closer	silver	K-18527-00-0-1
	special colour	K-18527-00-0-9

OTS 73x series – Accessories

Angular lintel bracket

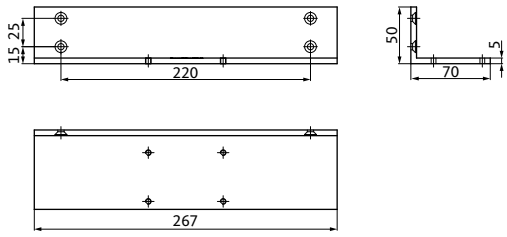


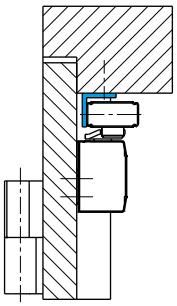
Angular lintel bracket for OTS 73x door closer

for fastening the OTS 73x door closer body on the hinge-side when installing on the lintel and on the side opposite to the hinges when installing on the transom with large reveal depths

Versions/Order numbers

Designation	Finish	Order number
Angular lintel bracket for OTS 73x door closer	silver	K-18528-00-0-1
	special colour	K-18528-00-0-9



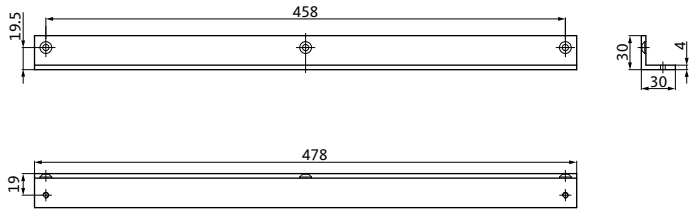


Angular lintel bracket for GS-OTS 73x slide rail

for fastening the GS slide rail on the side opposite to the hinges when installing on the lintel with large reveal depths

Versions/Order numbers

Designation	Finish	Order number
GS-OTS 73x angular lintel bracket for slide rail	silver	K-18525-00-0-1
	special colour	K-18525-00-0-9



OTS 73x series – Accessories

Axle extension, axle extension of sliding block

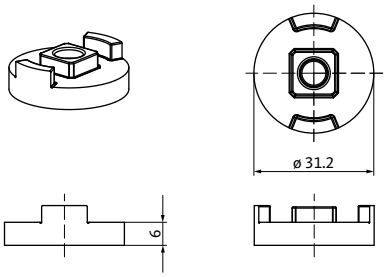


Illustration: 6 mm axle extension

Axle extension

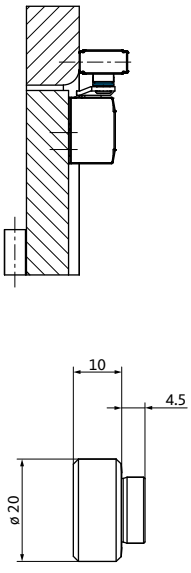
for increasing or evening out the distance between the door closer and slide rail for doors with a large rebate overlap

Product characteristics:

- 8 or 6 mm high
- Consistent for all OTS 73x variants
- Stackable (only 8 mm variants)

Versions/Order numbers

Designation	Height [mm]	Order number
Axle extension between door closer axis and slide arm	6	K-18767-06-0-6
	8	K-18767-08-0-6



Axle extension of sliding block

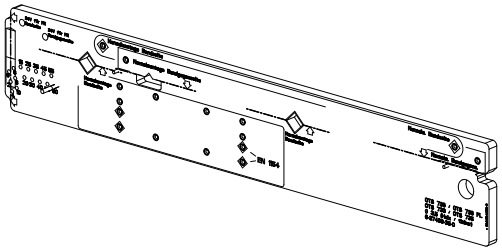
to compensate for deviations from the specified dimensions at the slide rail when using slender door profiles

Versions/Order numbers

Designation	Height [mm]	Order number
Axle extension of sliding block	10	K-19088-10-0-6

OTS 73x series – Accessories

Drilling jigs



Drilling jigs

- Assembly aid for drilling holes at the mounting points on the door leaf and door frame when installing the OTS 73x door closer (BS and BG)
- 4 variants

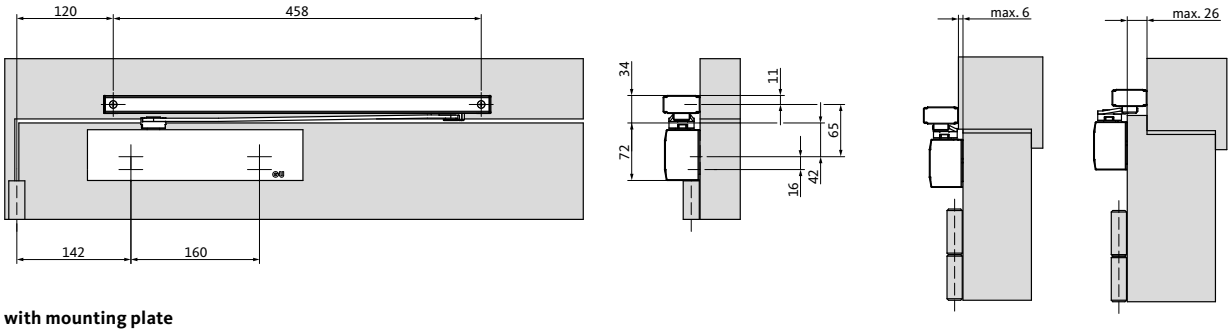
Versions/Order numbers

Type of installation	Material	Order number
Standard installation (NM)	timber	K-18937-35-0-0
Standard installation (NM)	metal	K-18937-42-0-0
Transom installation (KM)	timber	K-18938-35-0-0
Transom installation (KM)	metal	K-18938-42-0-0

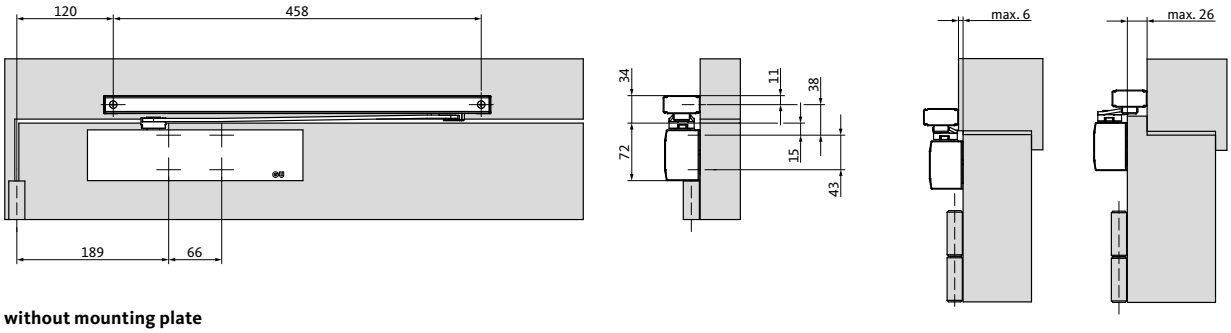
OTS 73x series – Installation situations

Single-leaf elements – Hinge-side

Standard installation on hinge-side

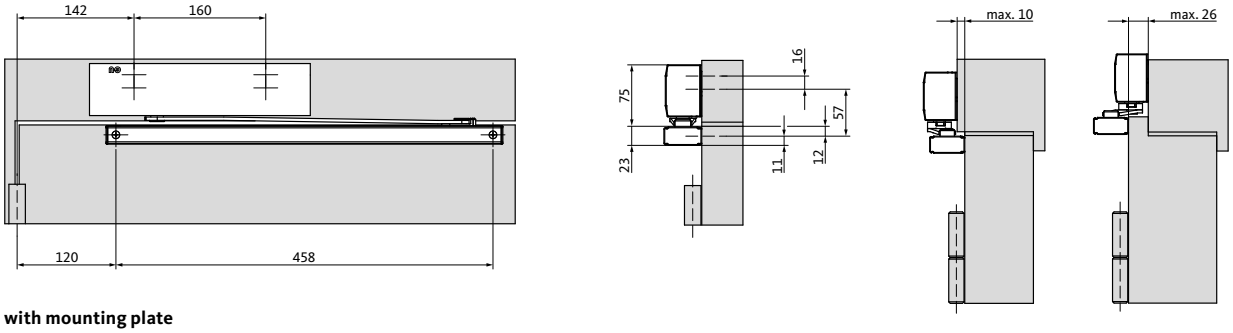


with mounting plate

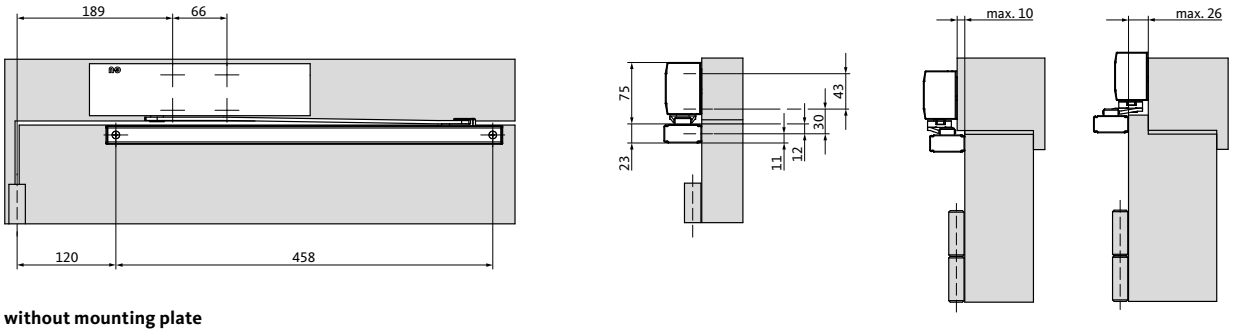


without mounting plate

Transom installation on hinge-side



with mounting plate



without mounting plate

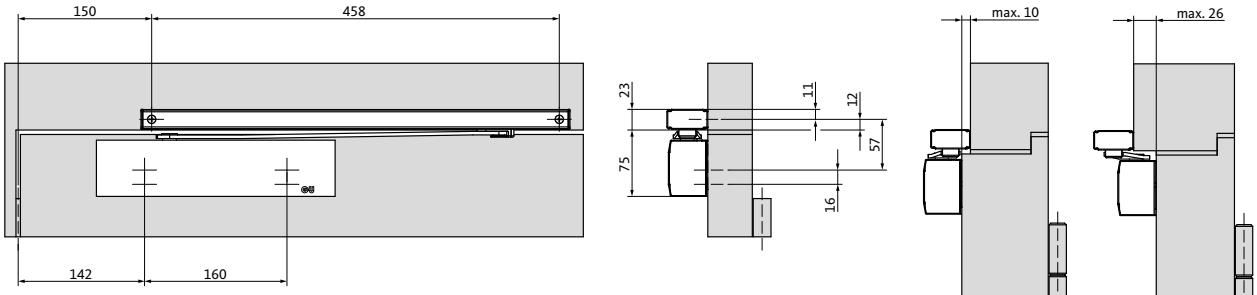
OTS 73x series – Installation situations

Single-leaf elements – Side opposite to hinges

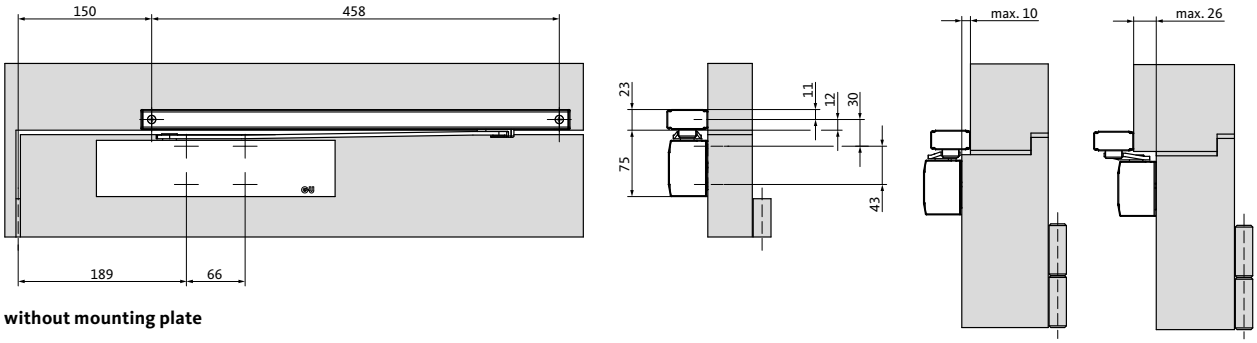
Important:

The X-dimension must be observed when installing on the side opposite the hinges! You can find more detailed information on page 259.

Standard installation on side opposite to hinges

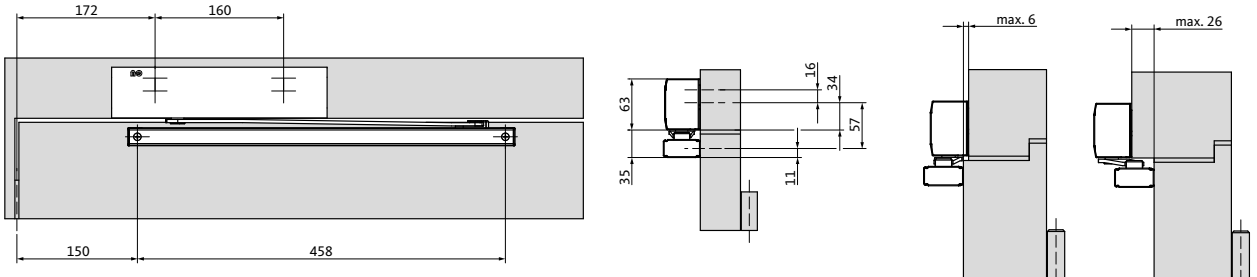


with mounting plate

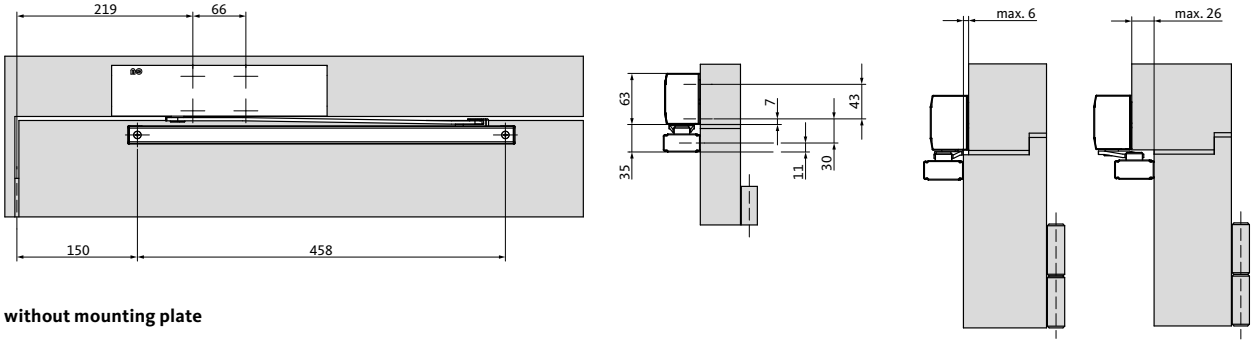


without mounting plate

Transom installation on side opposite to hinges



with mounting plate

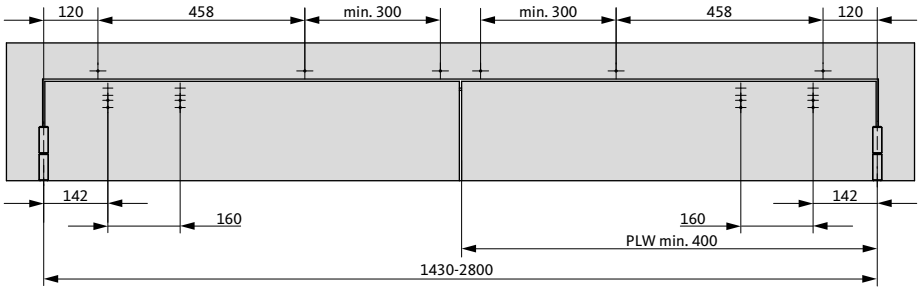


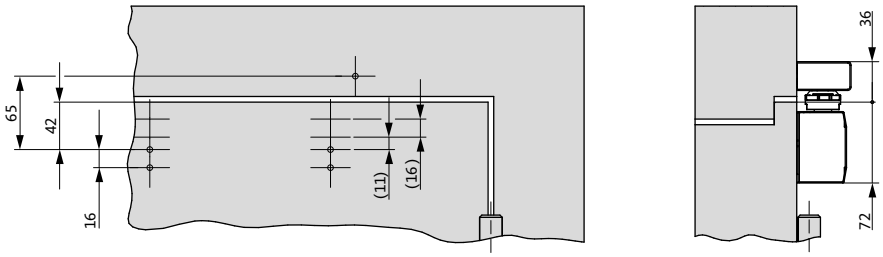
without mounting plate

OTS 73x series – Installation situations

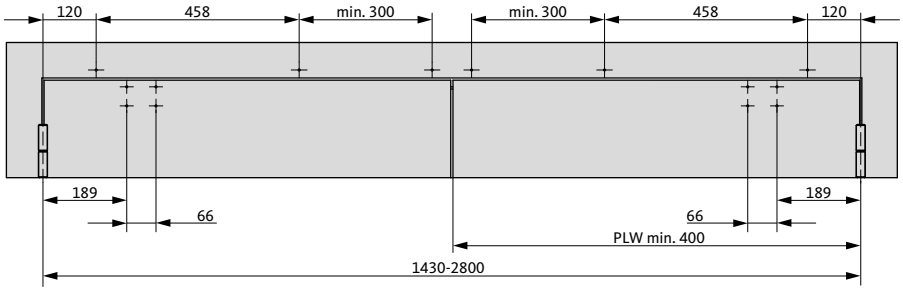
Double-leaf elements – Hinge-side

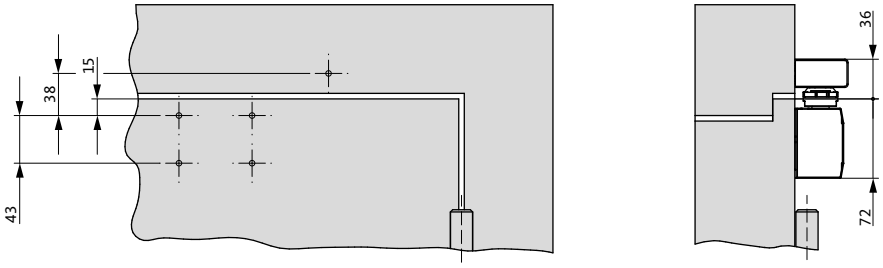
Standard installation on hinge-side with mounting plate





Standard installation on hinge-side without mounting plate





PLW = Passive leaf width

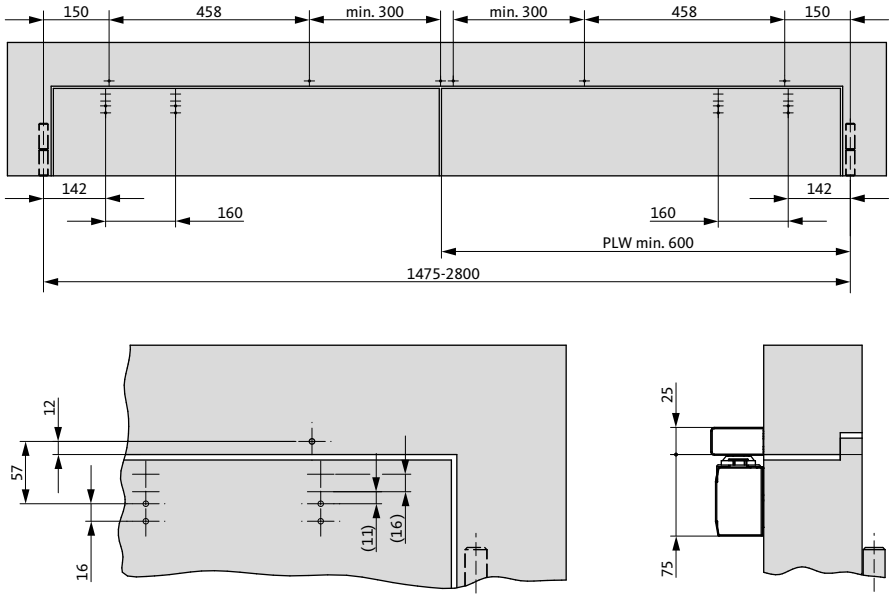
OTS 73x series – Installation situations

Double-leaf elements – Side opposite to hinges

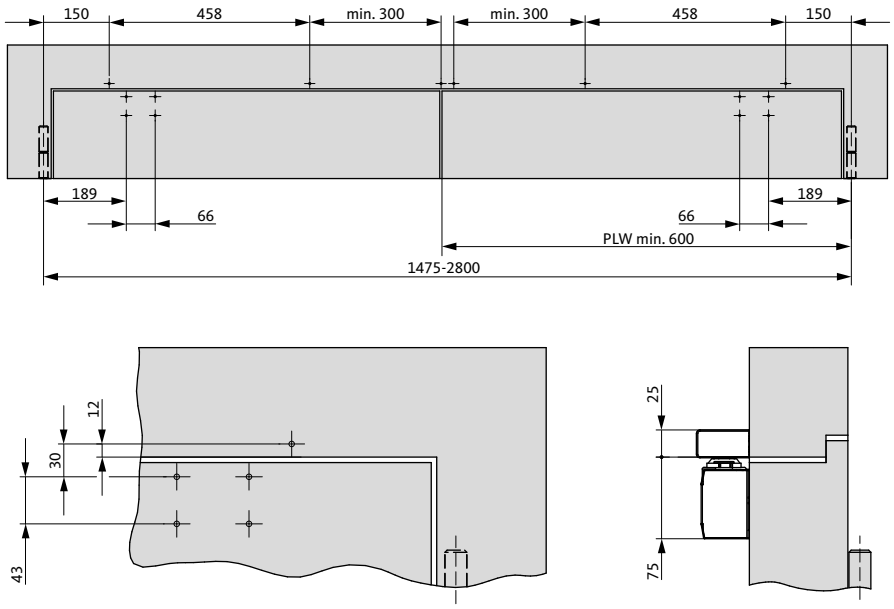
Important:

The X-dimension must be observed when installing on the side opposite the hinges! You can find more detailed information on page 259.

Standard installation on side opposite to hinges with mounting plate



Standard installation on side opposite to hinges without mounting plate

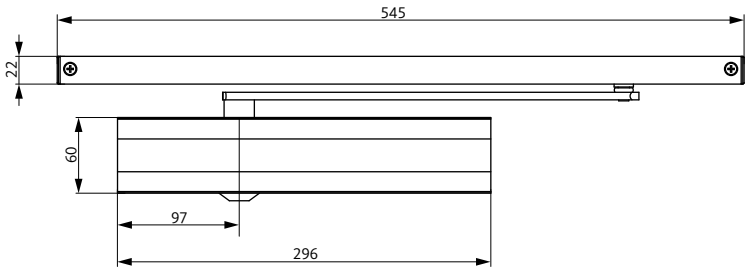


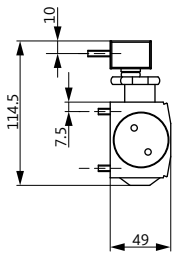
PLW = Passive leaf width

OTS 634 overhead door closer

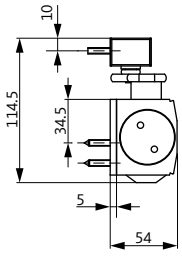
Closing force size EN 2-4 - for door leaf widths up to 1100 mm







without mounting plate



with mounting plate

Product characteristics

- Door closer for 1-leaf doors with door leaf widths up to 1100 mm
- Tested and certified in accordance with EN 1154
- Steplessly horizontally adjustable closing force size EN 2-4
- Valve functions which can be steplessly adjusted from the front:
  – Closing speed
  – Latching speed
  – Backcheck
- Thermomatic valves ensure a uniform closing speed in the event of temperature fluctuations
- Security valves in the closer protect against overloading
- Max. door opening and closing angle 180° [1]
- Controlled closing from every opening angle
- Compact aluminium housing with contemporary GU design

Optional:

- Mechanical hold-open for door openings of 80° – 110° [2]
- Mechanical opening restrictor for installation in the slide rail, adjustable from 80°–160° [1][4][5]

Classification code in accordance with EN 1154						
OTS 634	4	8	2 4	1	1	3

OTS 634 overhead door closer

Designation	Description	Finish	Order number
OTS 634 overhead door closer	with slide rail	silver	K-17523-00-0-1
		dark bronze	K-17523-00-0-5
		black (RAL 9005)	K-17523-00-0-6
		white (RAL 9016)	K-17523-00-0-7
OTS 634 overhead door closer	without slide rail	silver	K-17920-00-0-1
		dark bronze	K-17920-00-0-5
		black (RAL 9005)	K-17920-00-0-6
		white (RAL 9016)	K-17920-00-0-7

Slide rail

Designation	Finish	Order number
OTS 634 slide rail	silver	K-18404-00-0-1
	dark bronze	K-18404-00-0-5
	black (RAL 9005)	K-18404-00-0-6
	white (RAL 9016)	K-18404-00-0-7

Application ranges

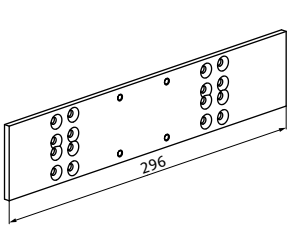
- 1-leaf fire and smoke protection doors
- For 1-leaf swing doors
- For door leaf widths up to 1100 mm
- DIN left and DIN right-handed
- Standard installation on hinge-side
- Transom installation on hinge-side / transom installation on side opposite to hinges [3]
- Use on fire and smoke protection doors is only permitted when using the mounting plate.

[1] Standard installation on hinge-side.
[2] Not approved for fire and smoke protection doors.
[3] Position doorstop for max. door opening angle.
[4] **Attention:** in many applications, this opening restrictor is not a substitute for the doorstop!
[5] Cannot be combined with mechanical hold-open device (K-17726).

EN 1154 DIN 18040 F CE

OTS 634 overhead door closer – Accessories

Mounting plates, locking unit, opening restrictor

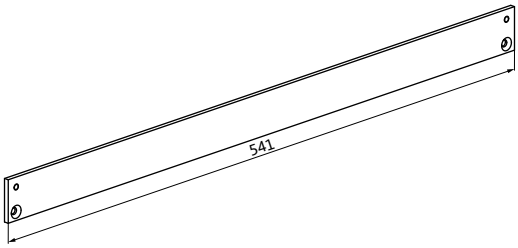




Mounting plate for door closer

Versions/Order numbers

Designation	Finish	Order number
Mounting plate for door closer	silver	K-19640-00-0-1
	dark bronze	K-19640-00-0-5
	black (RAL 9005)	K-19640-00-0-6
	white (RAL 9016)	K-19640-00-0-7





Mounting plate for slide rail

Versions/Order numbers

Designation	Finish	Order number
Mounting plate for slide rail	silver	K-17761-00-0-1
	dark bronze	K-17761-00-0-5
	black (RAL 9005)	K-17761-00-0-6
	white (RAL 9016)	K-17761-00-0-7

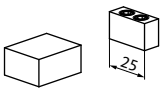


Locking unit [1]

- Hold-open angle steplessly adjustable from 80°–110°
- No opening beyond hold-open angle

Versions/Order numbers

Designation	Finish	Order number
Mechanical locking unit	–	K-17726-00-0-0



Opening restrictor [2][3]

- Opening angle steplessly adjustable from 80°–160°

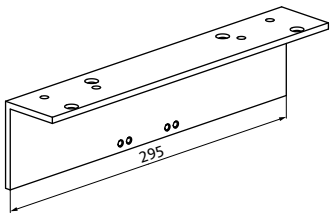
Versions/Order numbers

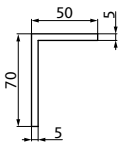
Designation	Finish	Order number
Opening restrictor, mechanical	–	K-18022-00-0-0

[1] Not approved for fire and smoke protection doors.
[2] Cannot be combined with mechanical hold-open device (K-17726).
[3] **Attention:** in many applications, this opening restrictor is not a substitute for the doorstop!

OTS 634 overhead door closer – Accessories

Combined angular bracket, clamping plate, sliding cover, drilling jigs

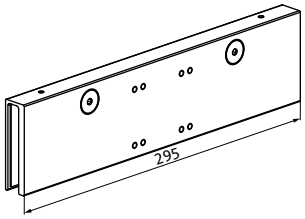


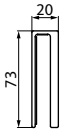


Combined angular bracket

Versions/Order numbers

Designation	Finish	Order number
Combined angular bracket	silver	K-17932-00-0-1
	dark bronze	K-17932-00-0-5
	white (RAL 9016)	K-17932-00-0-7

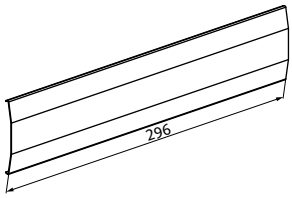




Clamping plate for all-glass doors

Versions/Order numbers

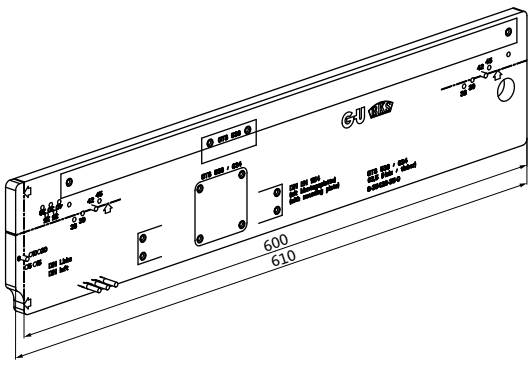
Designation	Finish	Order number
Clamping plate for all-glass doors	silver	K-17933-00-0-1
	dark bronze	K-17933-00-0-5
	white (RAL 9016)	K-17933-00-0-7

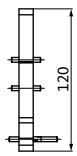


Sliding cover

Versions/Order numbers

Designation	Finish	Order number
Sliding cover	silver	K-18407-00-0-1
	dark bronze	K-18407-00-0-5
	black (RAL 9005)	K-18407-00-0-6
	white (RAL 9016)	K-18407-00-0-7





Drilling jigs

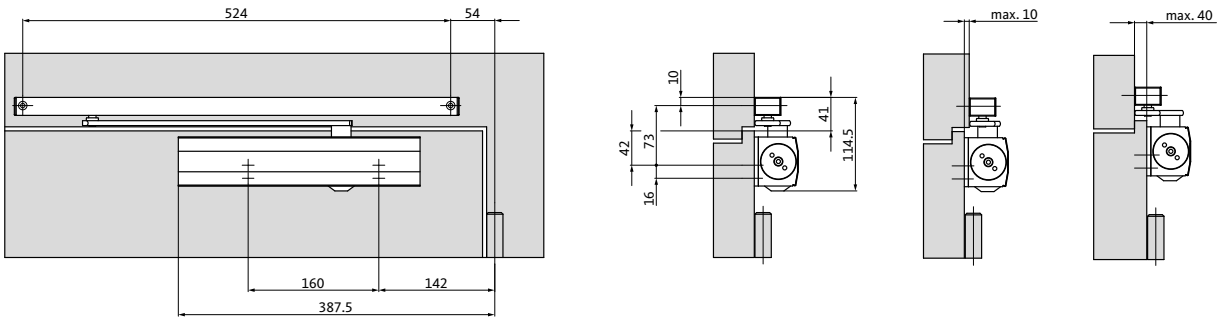
Versions/Order numbers

Designation	Drill hole Ø	Order number
Drilling jigs	Timber Drill hole Ø 3.5 mm	K-17975-35-0-0
	Metal Drill hole Ø 4.2 mm	K-17975-42-0-0

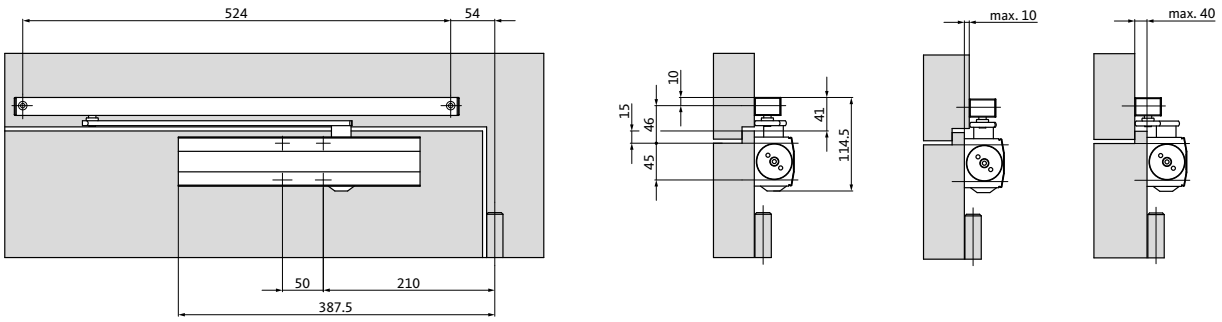
OTS 634 overhead door closer – Installation situations

Hinge-side

Standard installation on hinge-side

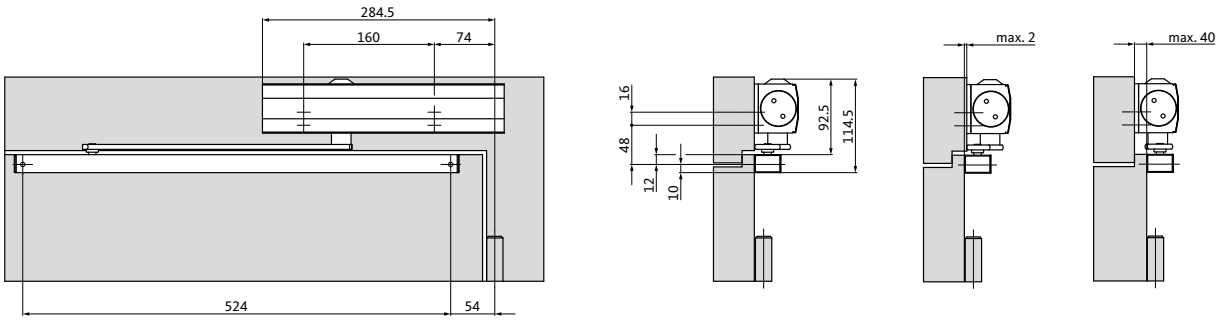


with mounting plate

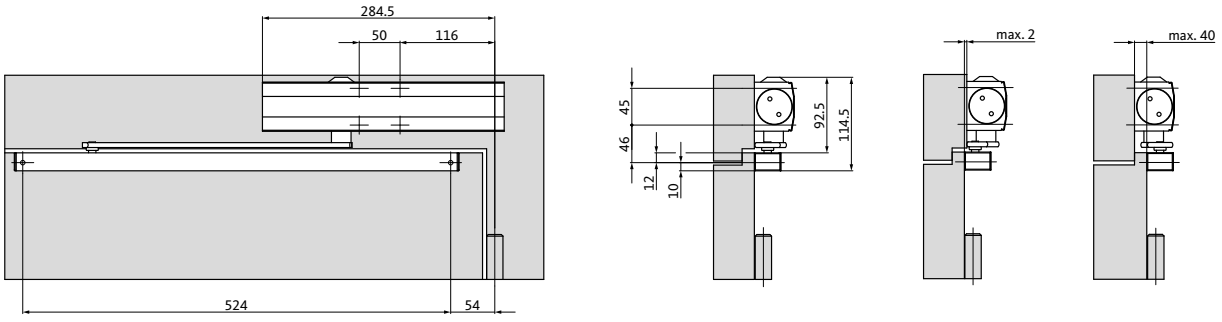


without mounting plate

Transom installation on hinge-side



with mounting plate

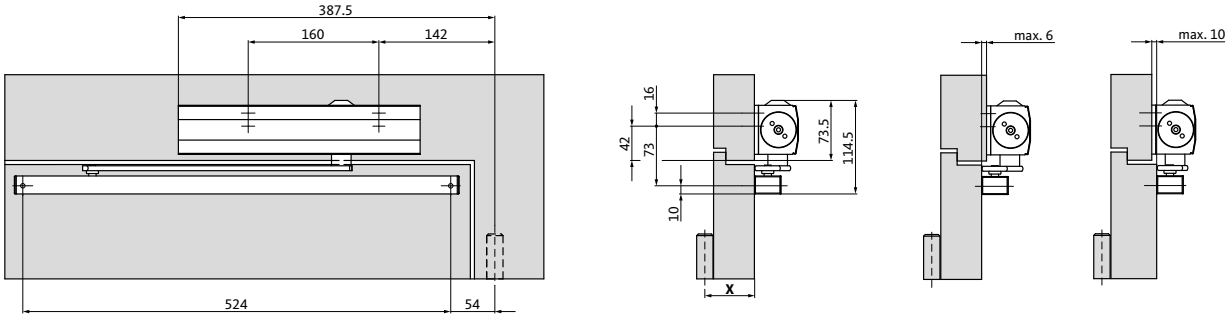


without mounting plate

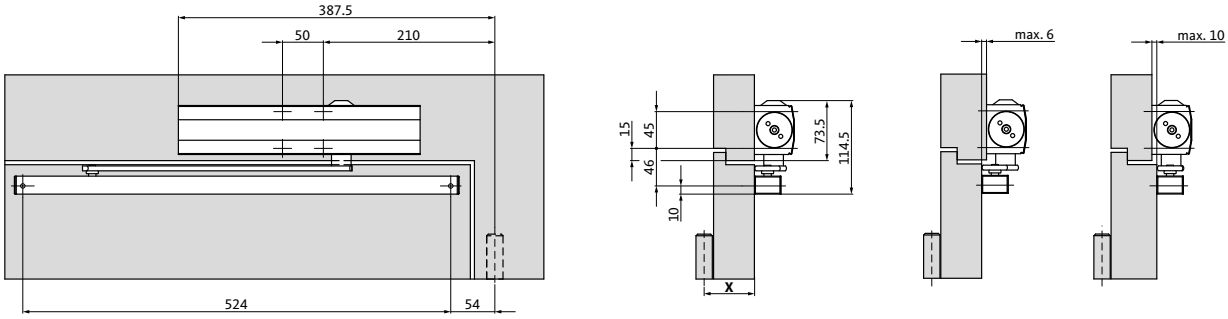
OTS 634 overhead door closer – Installation situations

Side opposite to hinges

Transom installation on side opposite to hinges



with mounting plate



without mounting plate

Max. door opening angle depending on dimension X
Transom installation on side opposite to hinges

Dim. X	Max. door opening angle
70 mm	129°
80 mm	124°
90 mm	120°
100 mm	115°
110 mm	111°

OTS 634x SRI – Modular system



System solution for 2-leaf doors

OTS 634x overhead door closer in combination with the double-leaf slide rail sets from the OTS 73x series

OTS 634x overhead door closer

MORE



GS SRI-OTS 73x slide rail set

MORE



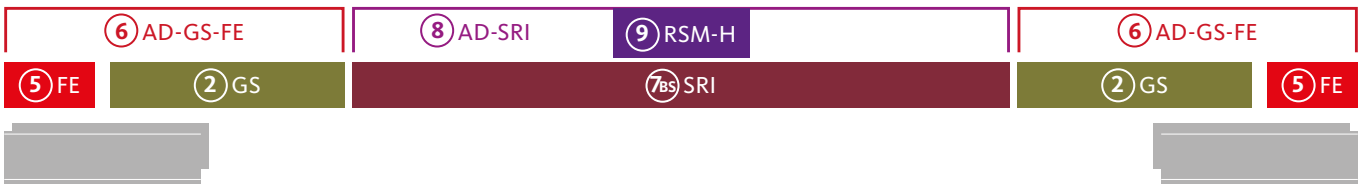
GS FE-SRI-OTS 73x slide rail set

MORE



GS FER-SRI-OTS 73x slide rail set

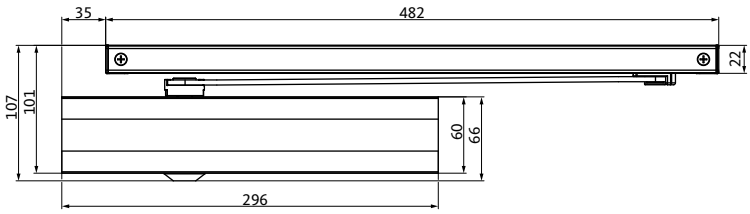
MORE

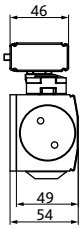


OTS 634x overhead door closer

Closing force size EN 2-4 – for total door leaf widths up to 2200 mm







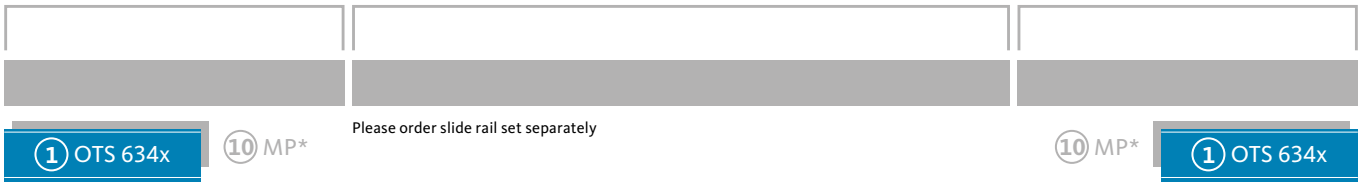
Product characteristics

- Door closers for double-leaf doors with total door leaf widths up to 2200 mm
- **For combination with the double-leaf slide rail sets from the OTS 73x series**
- Tested and certified in accordance with EN 1154
- Steplessly horizontally adjustable closing force size EN 2-4
- Valve functions which can be steplessly adjusted from the front:
  – Closing speed
  – Latching speed
  – Backcheck
- Thermomatic valves ensure a uniform closing speed in the event of temperature fluctuations
- Security valves in the closer protect against overloading
- Max. door opening and closing angle 180°
- Controlled closing from every opening angle
- Compact aluminium housing with contemporary GU design

Slide rail set

- The OTS 634x series door closers can be combined with the following sets
  – GS SRI-OTS 73x
  – GS-FE-SRI OTS 73x
  – GS-FER-SRI OTS 73x
- You can find relevant order information on pages
  – 80–81 (GS SRI-OTS 73x)
  – 82–83 (GS FE-SRI-OTS 73x)
  – 84–85 (GS FER-SRI-OTS 73x)

Classification code in accordance with EN 1154						
OTS 634x	4	8	2 4	1	1	3



*Optional accessories

OTS 634x overhead door closer [1]

Designation	Description	Finish	Order number	Modular system number
OTS 634x overhead door closer	without slide rail	silver	K-19632-00-0-1	1
		black (RAL 9005)	K-19632-00-0-6	
		white (RAL 9016)	K-19632-00-0-7	

Accessories (optional)

Designation	Finish	Order number	Modular system number
MP mounting plate	silver	K-19640-00-0-1	10
	black (RAL 9005)	K-19640-00-0-6	
	white (RAL 9016)	K-19640-00-0-7	

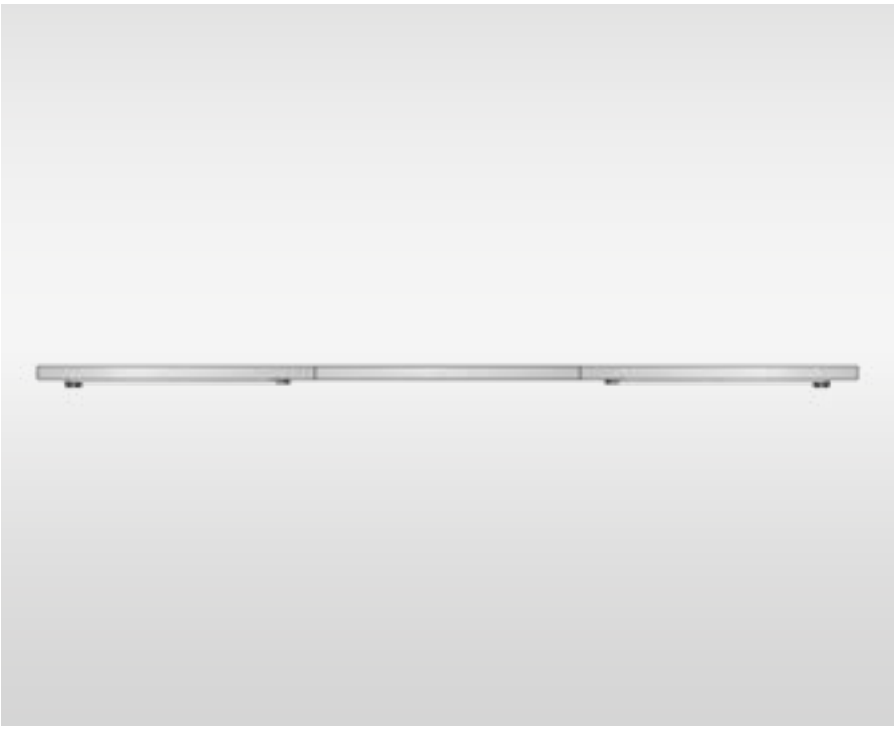
Application ranges

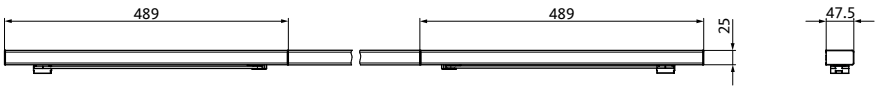
- 2-leaf fire and smoke protection doors
- 2-leaf swing doors
- Max. total door leaf width 2200 mm
- DIN left and DIN right-handed
- Standard installation on hinge-side
- Use on fire and smoke protection doors is only permitted when using the mounting plate.

[1] When used with the slide rail sets, two OTS 634x door closers must be ordered in each case.

GS SRI-OTS 73x slide rail set

with SRI door-leaf coordinator





Product characteristics

- Solution for double-leaf doors with total door leaf widths up to 2200 mm
- **For combination with OTS 634x overhead door closers**
- Tested and certified in accordance with EN 1158

SRI door-leaf coordinator

- Mechanical door-leaf coordinator (SRI) integrated into the slide rail to ensure doors are closed safely and in the correct sequence at all times

Set consisting of:

Modular system Details of the individual modular components			
2 x 2	GS slide rail	Page 26	MORE
2 x 3	AD-GS slide rail cover	Page 27	MORE
1 x 7BS	SRI door-leaf coordinator	Page 31	MORE
1 x 8	AD-SRI cover for door-leaf coordinator	Page 32	MORE

OTS 634x door closer

- The OTS 634x door closers **are not included** in the scope of delivery of the slide rail set and **must be ordered separately.**
- When used in combination with the slide rail set, two OTS 634x door closers must always be ordered
- You can find relevant order information on pages 78–79.



OTS 634x door closer to be ordered separately

OTS 634x door closer to be ordered separately

*Optional accessories

GS SRI-OTS 73x slide rail set [1]
Slide rails, door-leaf coordinators, covers

Set consisting of	Finish	Order number	Consisting of module numbers
2 x GS slide rail 2 x AD-GS slide rail cover 1 x SRI door-leaf coordinator (without microswitch) 1 x AD-SRI cover for door-leaf coordinator	silver	K-18354-00-0-1	2 3 7 8
	black (RAL 9005)	K-18354-00-0-6	
	white (RAL 9016)	K-18354-00-0-7	

Accessories (optional)

Designation	Finish	Order number	Modular system number
FM mechanical hold-open device with ÖB opening restrictor [2]	–	K-18369-00-0-6	4
ÖB opening restrictor [3]	–	K-18916-00-0-6	11

Application ranges

- 2-leaf fire and smoke protection doors
- 2-leaf swing doors
- Min. total door leaf width 1430 mm
- Max. total door leaf width 2200 mm
- Min. single door leaf width of inactive leaf 400 mm
- Standard installation on hinge-side
- Max. door opening and closing angle 180°

Use of door-leaf coordinator SRI on double-leaf full-panic doors in escape and rescue routes

A suitable carrier bar must always be used with 2-leaf full-panic doors installed in escape and rescue routes. This ensures that when the door is opened via the inactive leaf (in panic situations), the active leaf is carried at least as far as the beginning of the action range of the door-leaf coordinator (SRI).

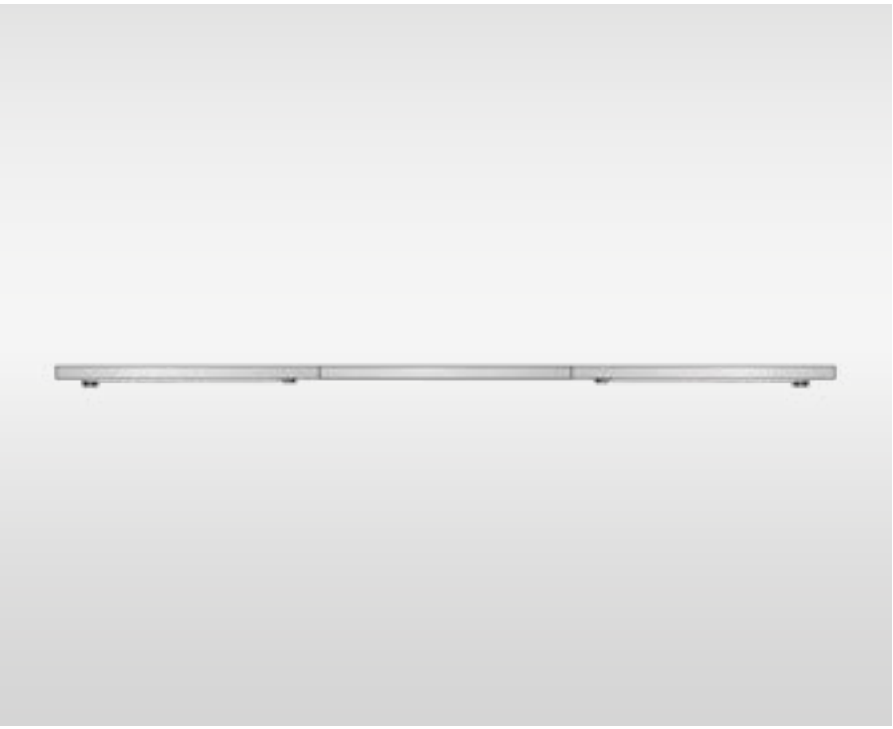
For the corresponding application diagram and additional information on the carrier bar, refer to pages 238–241.

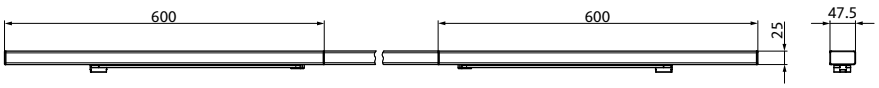
[1] Door closers must be ordered separately – for order information refer to pages 78–79.
[2] Not approved for fire and smoke protection doors.
[3] Not required if a mechanical hold-open device (FM) is already installed.

EN 1158

GS FE-SRI-OTS 73x slide rail set

with SRI door-leaf coordinator and FE electromechanical hold-open device





Set consisting of:

Modular system Details of the individual modular components			
2 x 2	GS slide rail	Page 26	MORE
2 x 5	FE electromechanical hold-open device	Page 29	MORE
2 x 6	AD-GS-FE cover for electromechanical hold-open device	Page 30	MORE
1 x 7BS 7BG	SRI or SRI-BG door-leaf coordinator	Page 31	MORE
1 x 8	AD-SRI cover for door-leaf coordinator	Page 32	MORE

Product characteristics

- Solution for double-leaf doors with total door leaf widths up to 2200 mm
- **For combination with OTS 634x overhead door closers**
- Tested and certified in accordance with EN 1155 and EN 1158
- Tested and approved by DIBt (German Institute of Building Engineering)

SRI door-leaf coordinator

- Mechanical door-leaf coordinator (SRI) integrated into the slide rail to ensure doors are closed safely and in the correct sequence at all times
- Microswitch in the active leaf supplied as standard: guarantees that the inactive leaf closes if the active leaf is manually unlatched from the hold-open position.

FE electromechanical hold-open device

- Device that is integrated and pre-mounted In the slide rail and allows a door to be held open at a chosen angle until it is closed electrically
- The active leaf can be held open independently of the inactive leaf at any time

Cover

- Door-leaf coordinator and electrome-chanical hold-open device integrated under continuous cover

OTS 634x door closer

- The OTS 634x door closers **are not included** in the scope of delivery of the slide rail set and **must be ordered separately.**
- When used in combination with the slide rail set, two OTS 634x door closers must always be ordered
- You can find relevant order information on pages 78–79.



OTS 634x door closer to be ordered separately

OTS 634x door closer to be ordered separately

GS FE-SRI-OTS 73x slide rail set [1]

Slide rails, electromechanical hold-open devices, door-leaf coordinators, covers

Set consisting of	Finish	Order number	Consisting of module numbers
2 x GS slide rail 2 x FE electromechanical hold-open device (1 x active leaf, 1 x inactive leaf) 2 x AD-GS-FE cover for electromechanical hold-open device 1 x SRI door-leaf coordinator (with microswitch) 1 x AD-SRI cover for door-leaf coordinator	silver	K-18355-00-0-1	2 5 6 7BS 8
	black (RAL 9005)	K-18355-00-0-6	
	white (RAL 9016)	K-18355-00-0-7	
	stainless steel	K-18355-00-0-8	
	special colour	K-18355-00-0-9	

Note: accessories for hold-open systems are listed on pages 212–231.

Application ranges

- 2-leaf fire and smoke protection doors
- Min. total door leaf width 1430 mm
- Max. total door leaf width 2200 mm
- Min. single door leaf width of inactive leaf 400 mm
- Hold-open angle 85°–140° steplessly adjustable [2]
- Standard installation on hinge-side
- Max. door opening and closing angle 180°

Use of door-leaf coordinator SRI on double-leaf full-panic doors in escape and rescue routes

A suitable carrier bar must always be used with 2-leaf full-panic doors installed in escape and rescue routes. This ensures that when the door is opened via the inactive leaf (in panic situations), the active leaf is carried at least as far as the beginning of the action range of the door-leaf coordinator (SRI).

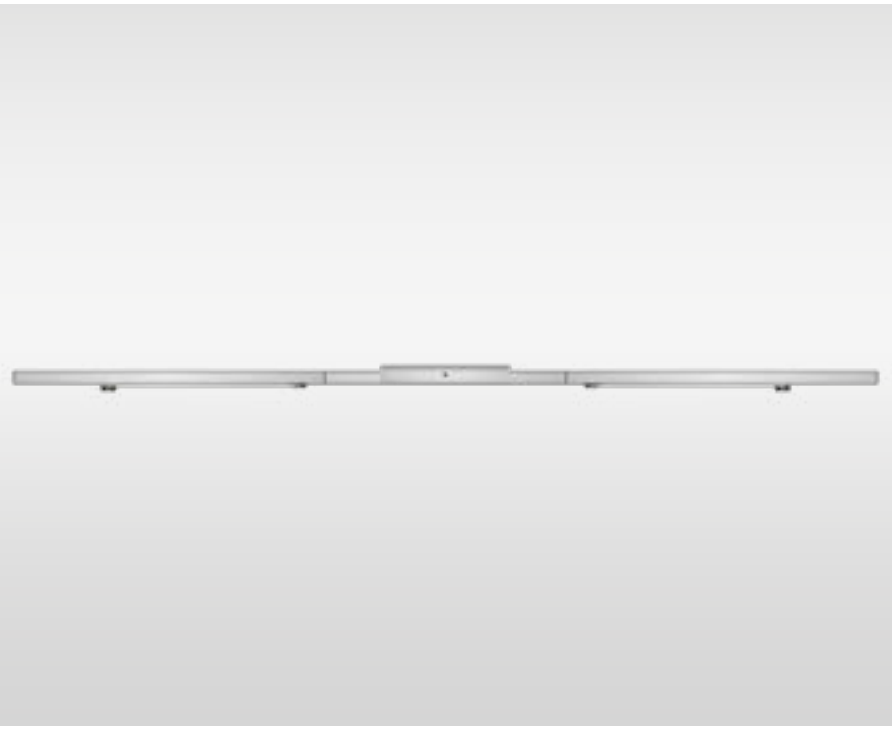
For the corresponding application diagram and additional information on the carrier bar, refer to pages 238–241.

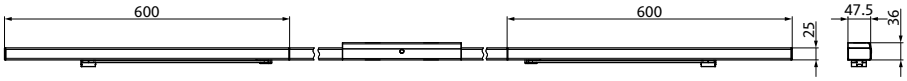
[1] Door closers must be ordered separately – for order information refer to pages 78–79.
[2] Depending on installation situation. Position door stop for max. door opening angle.

EN 1155 EN 1158 F CE

GS FER-SRI-OTS 73x slide rail set

Hold-open system for double-leaf fire rated doors, with door-leaf coordinator, electromechanical hold-open device and smoke switch module





Product characteristics

- Solution for double-leaf doors with total door leaf widths up to 2200 mm
- **For combination with OTS 634x overhead door closers**
- Tested and certified in accordance with EN 1155 and EN 1158
- Tested and approved by DIBt according to the guidelines for hold-open systems

SRI door-leaf coordinator

- Mechanical door-leaf coordinator (SRI) integrated into the slide rail to ensure doors are closed safely and in the correct sequence at all times
- Microswitch in the active leaf supplied as standard: guarantees that the inactive leaf closes if the active leaf is manually unlatched from the hold-open position.

FE electromechanical hold-open device

- Device that is integrated and pre-mounted In the slide rail and allows a door to be held open at a chosen angle until it is closed electrically
- The active leaf can be held open independently of the inactive leaf at any time

Cover

- Door-leaf coordinator and electrome-chanical hold-open device integrated under continuous cover

RSM-H smoke switch module

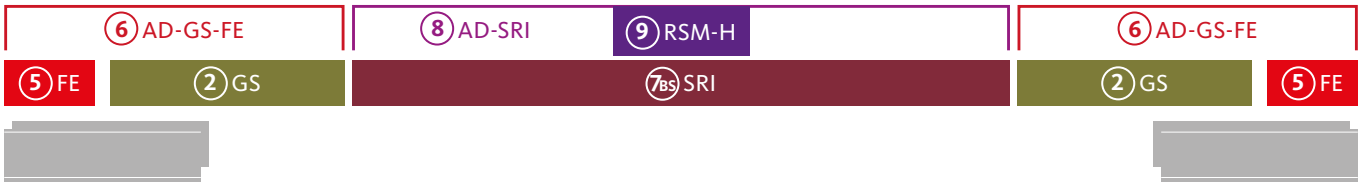
- For supplying electricity to all components of a hold-open system

Set consisting of:

Modular system Details of the individual modular components			
2 x 2	GS slide rail	Page 26	MORE
2 x 5	FE electromechanical hold-open device	Page 29	MORE
2 x 6	AD-GS-FE cover for electromechanical hold-open device	Page 30	MORE
1 x 7BS 7BG	SRI or SRI-BG door-leaf coordinator	Page 31	MORE
1 x 8	AD-SRI cover for door-leaf coordinator	Page 32	MORE
1 x 9	RSM-H smoke switch module	Page 33	MORE

OTS 634x door closer

- The OTS 634x door closers **are not included** in the scope of delivery of the slide rail set and **must be ordered separately.**
- When used in combination with the slide rail set, two OTS 634x door closers must always be ordered
- You can find relevant order information on pages 78–79.



OTS 634x door closer to be ordered separately

OTS 634x door closer to be ordered separately

GS FER-SRI-OTS 73x slide rail set [1]

Slide rails, electromechanical hold-open devices, door-leaf coordinators, covers, smoke switch module

Set consisting of	Finish	Order number	Consisting of module numbers
2 x GS slide rail 2 x FE electromechanical hold-open device (1 x active leaf, 1 x inactive leaf) 2 x AD-GS-FE cover for electromechanical hold-open device 1 x SRI door-leaf coordinator (with microswitch) 1 x AD-SRI cover for door-leaf coordinator 1 x RSM-H smoke switch module	silver	K-18356-00-0-1	2 5 6 7BS 8 9
	black (RAL 9005)	K-18356-00-0-6	
	white (RAL 9016)	K-18356-00-0-7	
	stainless steel	K-18356-00-0-8	
	special colour	K-18356-00-0-9	

Note: accessories for hold-open systems are listed on pages 212–231.

Application ranges

- 2-leaf fire and smoke protection doors
- Min. total door leaf width 1430 mm
- Max. total door leaf width 2200 mm
- Min. single door leaf width of inactive leaf 400 mm
- Hold-open angle 85°–140° steplessly adjustable [2]
- Standard installation on hinge-side
- Max. door opening and closing angle 180°

Use of door-leaf coordinator SRI on double-leaf full-panic doors in escape and rescue routes

A suitable carrier bar must always be used with 2-leaf full-panic doors installed in escape and rescue routes. This ensures that when the door is opened via the inactive leaf (in panic situations), the active leaf is carried at least as far as the beginning of the action range of the door-leaf coordinator (SRI).

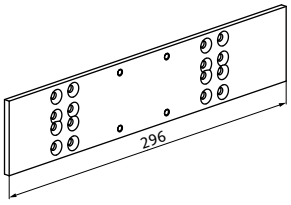
For the corresponding application diagram and additional information on the carrier bar, refer to pages 238–241.

[1] Door closers must be ordered separately – for order information refer to pages 78–79.
[2] Depending on installation situation. Position door stop for max. door opening angle.

EN 1155 EN 1158 F CE

OTS 634x SRI – Accessories

Mounting plates, combined angular bracket

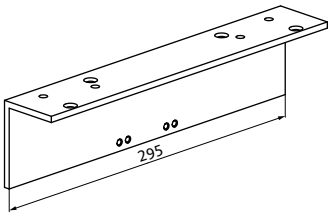


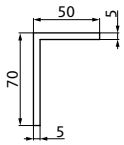


Mounting plate for door closer

Versions/Order numbers

Designation	Finish	Order number
Mounting plate for door closer	silver	K-19640-00-0-1
	black (RAL 9005)	K-19640-00-0-6
	white (RAL 9016)	K-19640-00-0-7

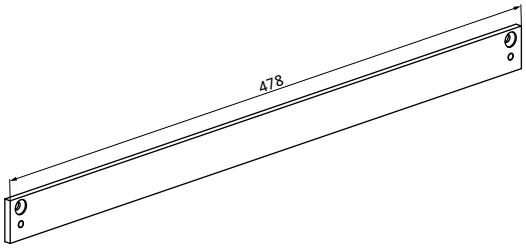




Combined angular bracket for door closer

Versions/Order numbers

Designation	Finish	Order number
Combined angular bracket for door closer	silver	K-17932-00-0-1
	white (RAL 9016)	K-17932-00-0-7



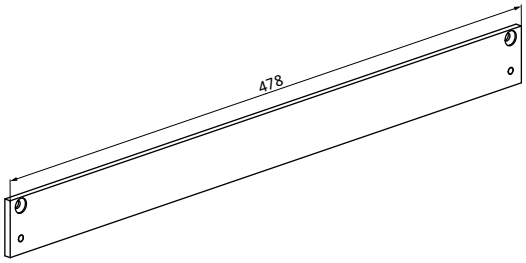


GS-OTS 73x mounting plate

for installation of the GS slide rail

Versions/Order numbers

Designation	Height (X)	Surface	Order number
GS-OTS 73x mounting plate	30 mm	silver	K-18524-00-0-1
		black (RAL 9005)	K-18524-00-0-6
		white (RAL 9016)	K-18524-00-0-7





GS-OTS 73x mounting plate

for installation of the GS slide rail

Versions/Order numbers

Designation	Height	Finish	Order number
GS-OTS 73x mounting plate	40 mm	silver	K-18524-23-0-1
		black (RAL 9005)	K-18524-23-0-6
		white (RAL 9016)	K-18524-23-0-7

OTS 634x SRI – Accessories

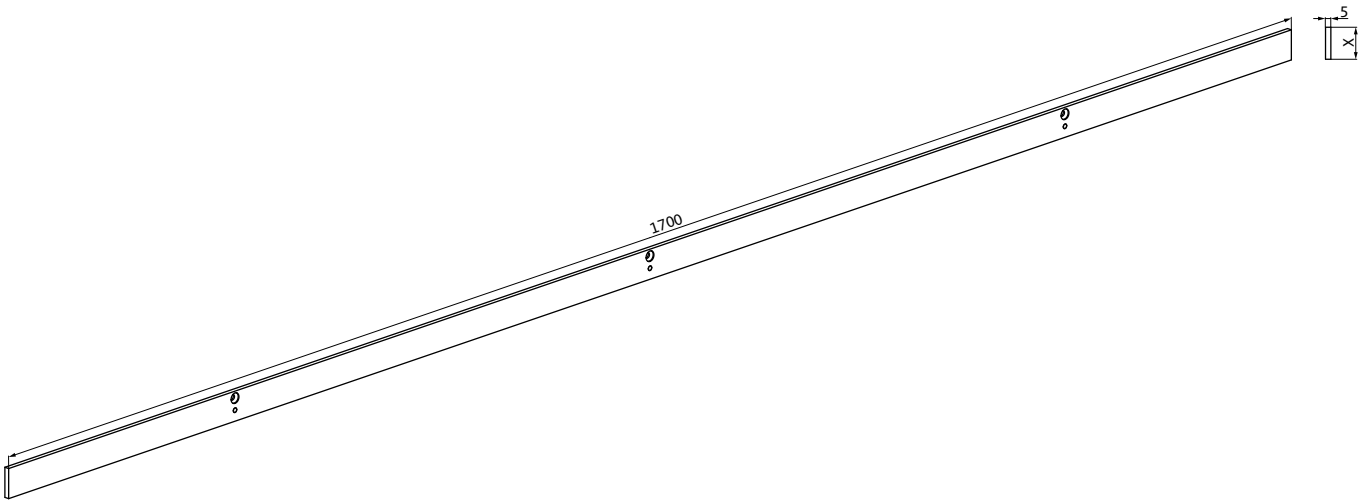
Mounting plates, sliding cover

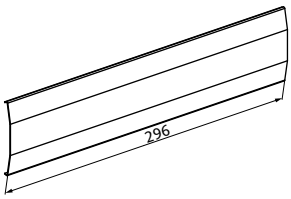
GS-SRI-OTS 73x mounting plate

for installation of AD-SRI cover for door-leaf coordinator

Versions/Order numbers

Designation	Height (X)	Finish	Order number
GS-SRI-OTS 73x mounting plate	30 mm	silver	K-19502-12-0-1
		black (RAL 9005)	K-19502-12-0-6
		white (RAL 9016)	K-19502-12-0-7
	40 mm	silver	K-19502-23-0-1
		black (RAL 9005)	K-19502-23-0-6
		white (RAL 9016)	K-19502-23-0-7





Sliding cover

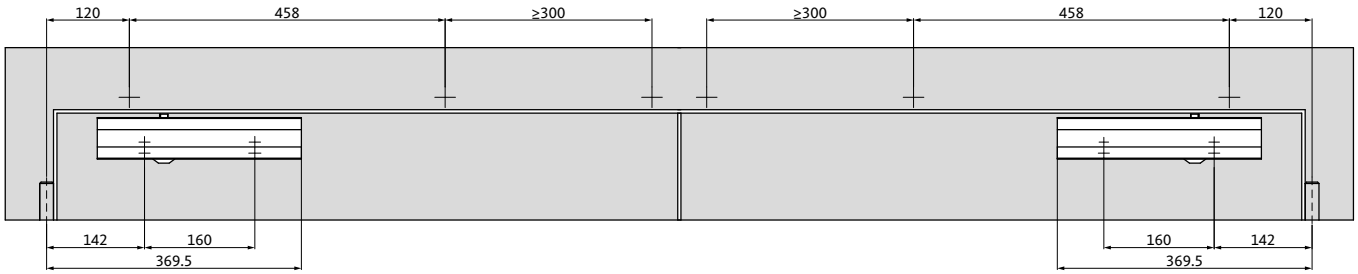
Versions/Order numbers

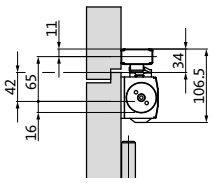
Designation	Finish	Order number
Sliding cover	silver	K-18407-00-0-1
	black (RAL 9005)	K-18407-00-0-6
	white (RAL 9016)	K-18407-00-0-7

OTS 634x SRI – Installation situations

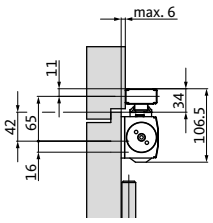
Flush doors / hinge-side
Rebated doors / hinge-side

Standard installation on hinge-side with mounting plate



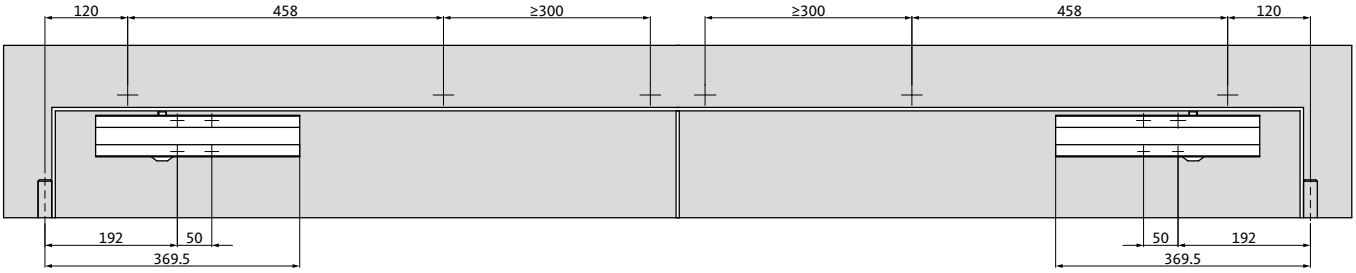


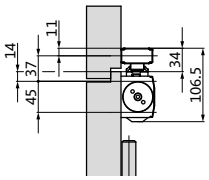
Flush profile



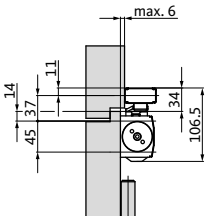
Frame projection

Standard installation on hinge-side without mounting plate





Flush profile

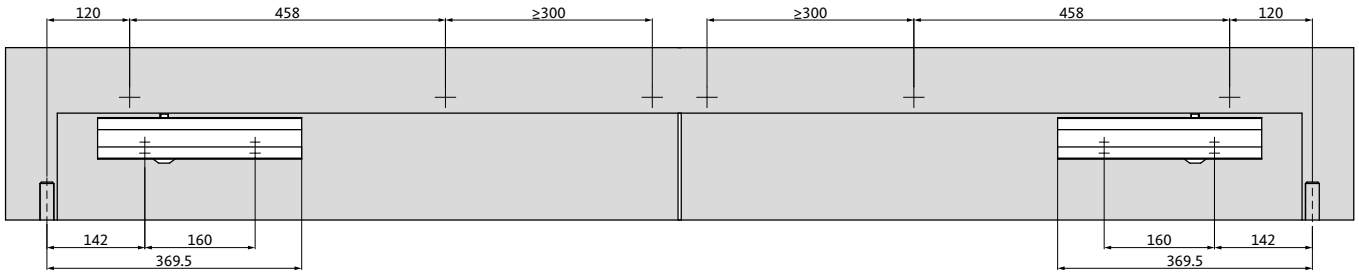


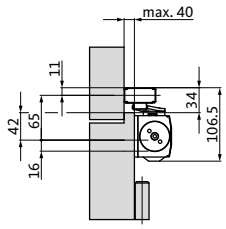
Frame projection

OTS 634x SRI – Installation situations

Rebated doors / hinge-side

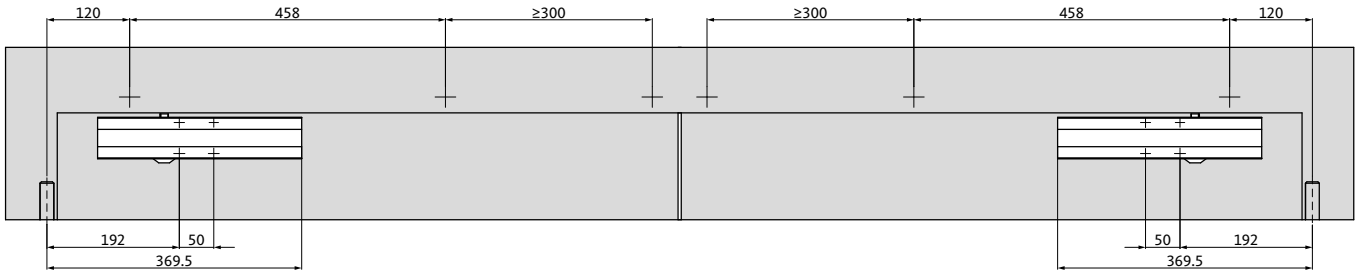
Standard installation on hinge-side with mounting plate

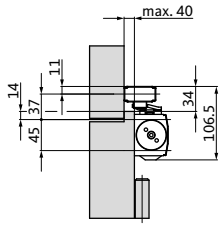




Door overlap

Standard installation on hinge-side without mounting plate



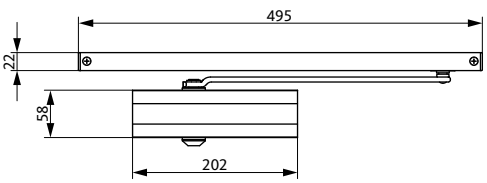


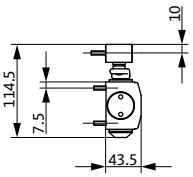
Door overlap

OTS 633 N overhead door closer

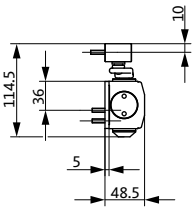
Closing force size EN 3 – for door leaf widths up to 950 mm







without mounting plate



with mounting plate

Product characteristics

- Door closer for 1-leaf doors with door leaf widths up to 950 mm
- Tested and certified in accordance with EN 1154
- Fixed EN 3 closing force size
- Valve functions which can be steplessly adjusted from the front:
  – Closing speed
  – Latching speed
- Thermomatic valves ensure a uniform closing speed in the event of temperature fluctuations
- Security valves in the closer protect against overloading
- Max. door opening and closing angle 180° [1]
- Controlled closing from every opening angle
- Compact aluminium housing with contemporary GU design

Optional:

- Mechanical hold-open device for installation in slide rail, steplessly adjustable hold-open angle from 80° – 110° [2]
- Mechanical opening restrictor for installation in the slide rail, opening angle steplessly adjustable from 80°–160° [1][4][5]

Classification code in accordance with EN 1154						
OTS 633 N	4	8	3	1	1	3

OTS 633 N overhead door closer

Designation	Description	Finish	Part number
OTS 633 N overhead door closer	with slide rail	silver	K-20475-00-0-1
		black (RAL 9005)	K-20475-00-0-6
		white (RAL 9016)	K-20475-00-0-7

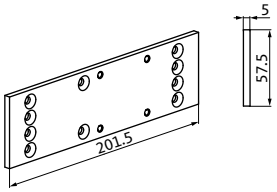
Application ranges

- 1-leaf fire and smoke protection doors
- 1-leaf swing doors
- For door leaf widths up to 950 mm
- DIN left and DIN right-handed
- Standard installation on hinge-side
- Transom installation on hinge-side / transom installation on side opposite to hinges [3]
- Use on fire and smoke protection doors is only permitted when using the mounting plate.

[1] Standard installation on hinge-side.
[2] Not approved for fire and smoke protection doors.
[3] Position doorstop for max. door opening angle.
[4] **Attention:** in many applications, this opening restrictor is not a substitute for the doorstop!
[5] Cannot be combined with mechanical hold-open device (K-17726).

OTS 633 N overhead door closer – Accessories

Mounting plates, locking unit, opening restrictor



Mounting plate for door closer

Versions/Order numbers

Designation	Finish	Order number
Mounting plate for door closer	silver	K-20526-00-0-1
	black (RAL 9005)	K-20526-00-0-6
	white (RAL 9016)	K-20526-00-0-7

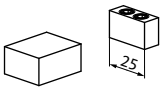


Locking unit [1]

- Hold-open angle steplessly adjustable from 80°–110°
- No opening beyond hold-open angle

Versions/Order numbers

Designation	Finish	Order number
Mechanical locking unit	–	K-17726-00-0-0

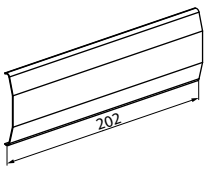


Opening restrictor [2][3]

- Opening angle steplessly adjustable from 80°–160°

Versions/Order numbers

Designation	Finish	Order number
Opening restrictor, mechanical	–	K-18022-00-0-0



Sliding cover

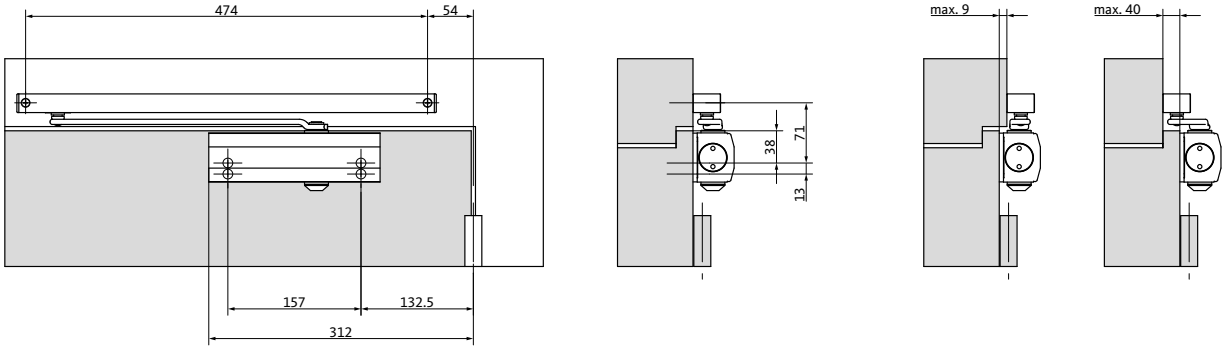
Versions/Order numbers

Designation	Finish	Order number
Sliding cover	silver	K-20533-00-0-1
	black (RAL 9005)	K-20533-00-0-6
	white (RAL 9016)	K-20533-00-0-7

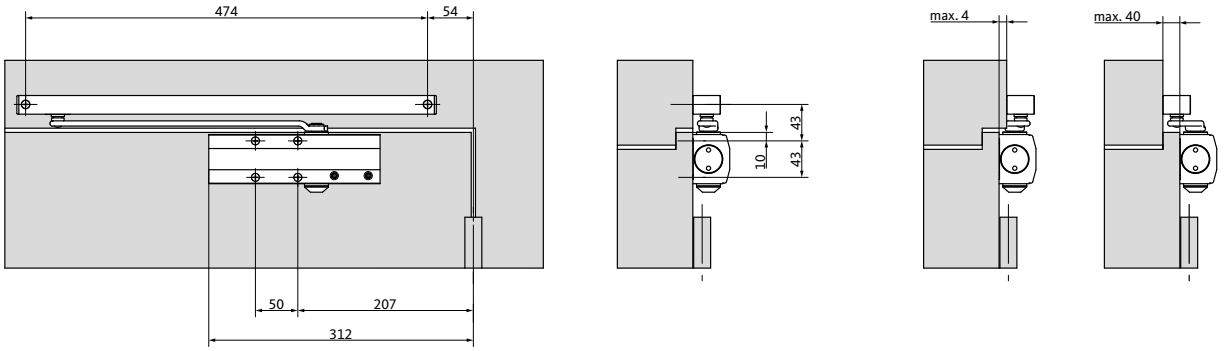
[1] Not approved for fire and smoke protection doors.
[2] Cannot be combined with mechanical hold-open device (K-17726).
[3] **Attention:** in many applications, this opening restrictor is not a substitute for the doorstop!

OTS 633 N overhead door closer – Installation situations

Standard installation on hinge-side



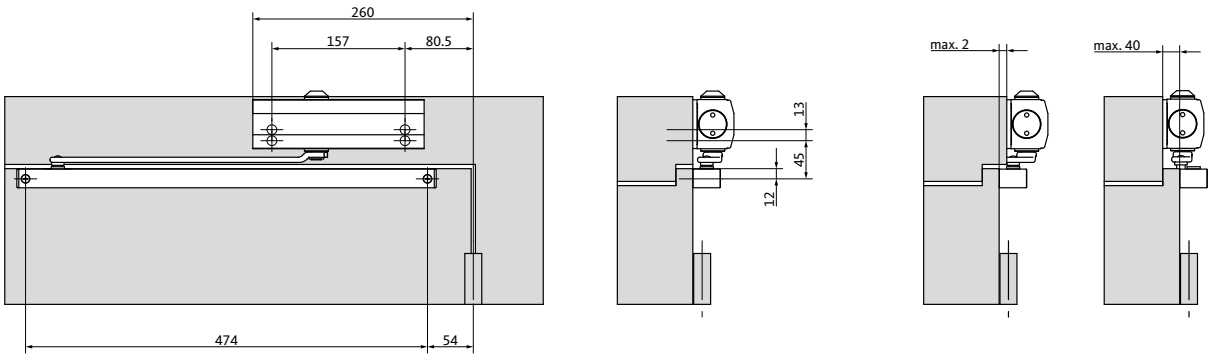
with mounting plate



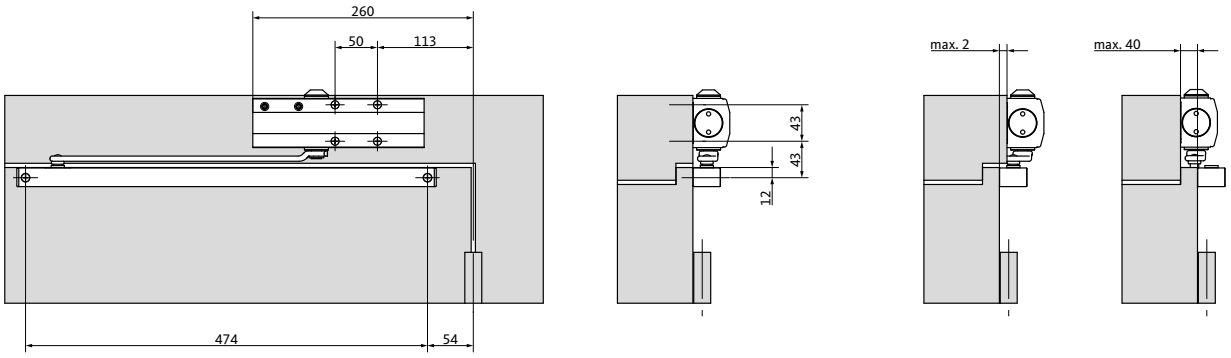
without mounting plate

OTS 633 N overhead door closer – Installation situations

Transom installation on hinge-side



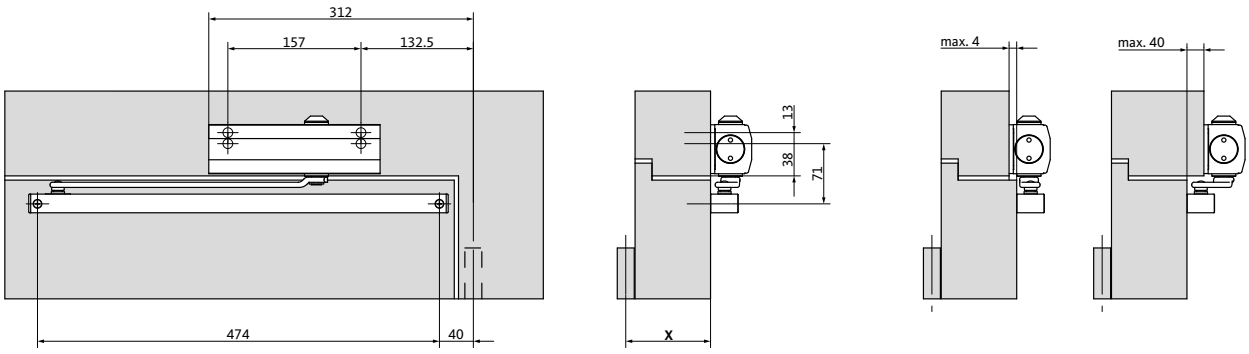
with mounting plate



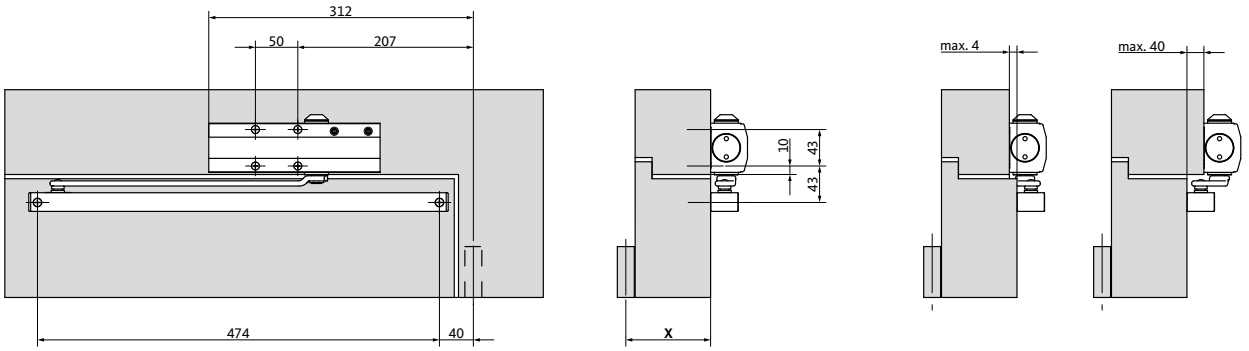
without mounting plate

OTS 633 N overhead door closer – Installation situations

Transom installation on side opposite to hinges



with mounting plate



without mounting plate

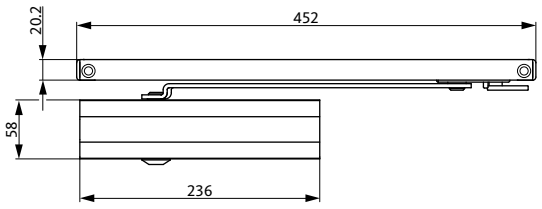
Max. door opening angle depending on dimension X
Transom installation on side opposite to hinges

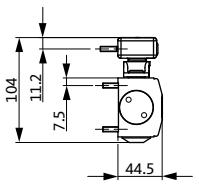
Dim. X	Max. door opening angle
70 mm	130°
80 mm	125°
90 mm	120°
100 mm	115°
110 mm	111°

OTS 430 G overhead door closer

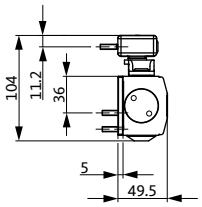
For door leaf widths up to 900 mm







without mounting plate



with mounting plate

Product characteristics

- Door closer for 1-leaf doors with door leaf widths up to 900 mm
- Steplessly adjustable closing force size EN 1-2.5
- Valve functions which can be steplessly adjusted from the front:
  – Closing speed
  – Latching speed
- Thermomatic valves ensure a uniform closing speed in the event of temperature fluctuations
- Security valves in the closer protect against overloading
- Max. door opening and closing angle 180° [1]
- Controlled closing from every opening angle
- Compact aluminium housing with contemporary GU design

Optional:

- Mechanical hold-open device, on/off switchable, for door openings from 70°–150° [1]
- Mechanical opening restrictor for installation in the slide rail, adjustable from 80°–120° [1] [3]
- Steplessly adjustable backcheck tested in accordance with EN 1154 (type OTS 430 G BC)

OTS 430 G overhead door closer

Designation	Description	Finish	Order number
OTS 430 overhead door closer	without slide rail	silver	K-17983-00-0-1
		dark bronze	K-17983-00-0-5
		black (RAL 9005)	K-17983-00-0-6
		white (RAL 9016)	K-17983-00-0-7
OTS 430 BC overhead door closer	without slide rail with backcheck	silver	K-17982-00-0-1
		dark bronze	K-17982-00-0-5
		white (RAL 9016)	K-17982-00-0-7

Slide rail

Designation	Description	Finish	Order number
Slide rail	without hold-open	silver	K-17183-02-0-1
		dark bronze	K-17183-02-0-5
		black (RAL 9005)	K-17183-02-0-6
		white (RAL 9016)	K-17183-02-0-7
	with mechanical hold-open, on/off switchable	silver	K-17183-01-0-1
		dark bronze	K-17183-01-0-5
		black (RAL 9005)	K-17183-01-0-6
		white (RAL 9016)	K-17183-01-0-7

Note: door closer and slide rail must be ordered separately.

Application ranges

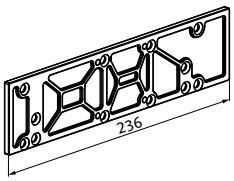
- 1-leaf swing doors
- Door leaf widths up to 900 mm
- DIN left and DIN right-handed
- Standard installation on hinge-side
- Transom installation on side opposite to hinges [2]

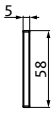
[1] Standard installation on hinge-side.
[2] Position doorstop for max. door opening angle.
[3] **Attention:** in many applications, this opening restrictor is not a substitute for the doorstop!

DIN 18040

OTS 430 G overhead door closer – Accessories

Mounting plates, mechanical hold-open, opening restrictor

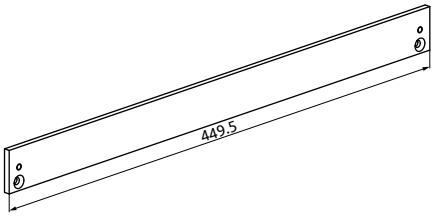




Mounting plate for door closer

Versions/Order numbers

Designation	Finish	Order number
Mounting plate for door closer	silver	K-16547-00-0-1
	dark bronze	K-16547-00-0-5
	black (RAL 9005)	K-16547-00-0-6
	white (RAL 9016)	K-16547-00-0-7

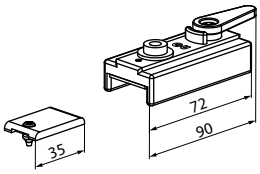




Mounting plate for slide rail

Versions/Order numbers

Designation	Finish	Order number
Mounting plate for slide rail	silver	K-15080-00-0-1



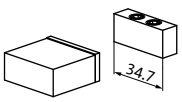
Mechanical hold-open device MF-EA

Upgrade set for slide rail without hold-open

- Hold-open angle adjustable from 70°–150°
- Opening beyond hold-open angle possible
- On/off switchable

Versions/Order numbers

Designation	Finish	Order number
Mechanical hold-open device MF-EA Upgrade set	black (RAL 9005)	K-17286-00-0-6



Opening restrictor [1]

- Opening angle adjustable from 80°–120°

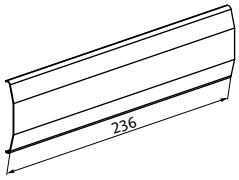
Versions/Order numbers

Designation	Finish	Order number
Opening restrictor, mechanical	–	K-17863-00-0-0

[1] **Attention:** in many applications, this opening restrictor is not a substitute for the doorstop!

OTS 430 G overhead door closer – Accessories

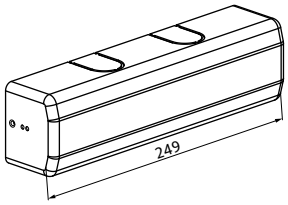
Sliding cover, cover, drilling jigs

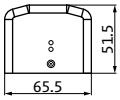


Sliding cover

Versions/Order numbers

Designation	Finish	Order number
Sliding cover	silver	K-18406-00-0-1
	dark bronze	K-18406-00-0-5
	black (RAL 9005)	K-18406-00-0-6
	white (RAL 9016)	K-18406-00-0-7

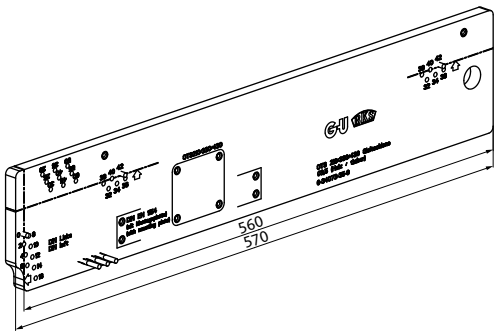


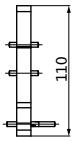


Cover

Versions/Order numbers

Designation	Finish	Order number
Cover	stainless steel	K-17387-02-0-8





Drilling jigs

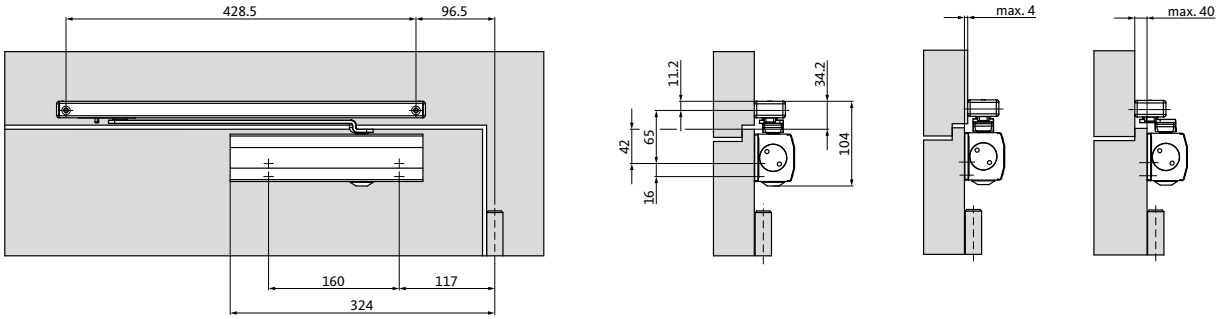
Versions/Order numbers

Designation	Drill hole Ø	Order number
Drilling jigs	Timber Drill hole Ø 3.5 mm	K-17807-35-0-0
	Metal Drill hole Ø 4.2 mm	K-17807-42-0-0

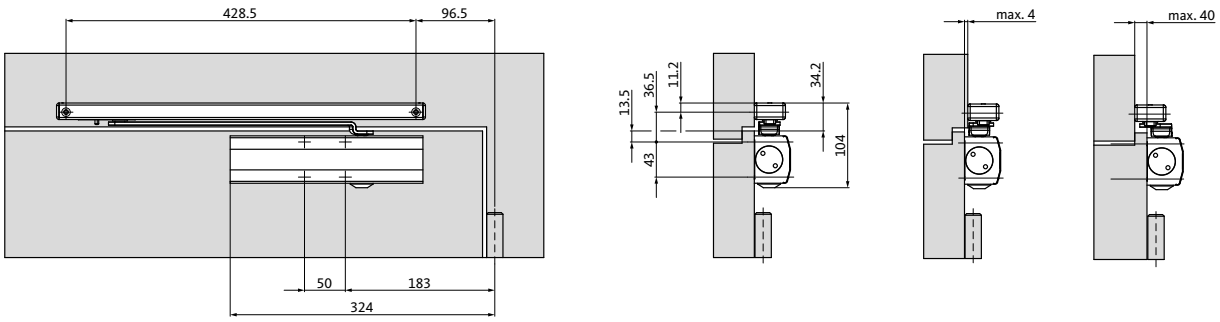
OTS 430 G overhead door closer – Installation situations

Hinge-side

Standard installation on hinge-side



with mounting plate

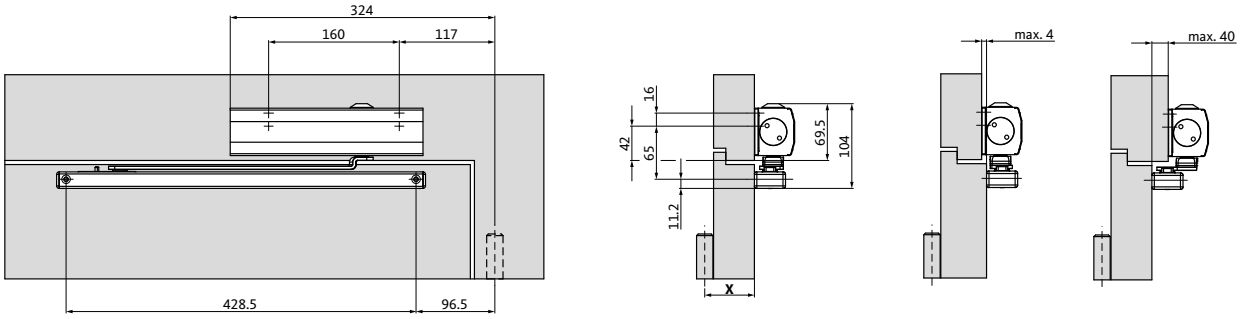


without mounting plate

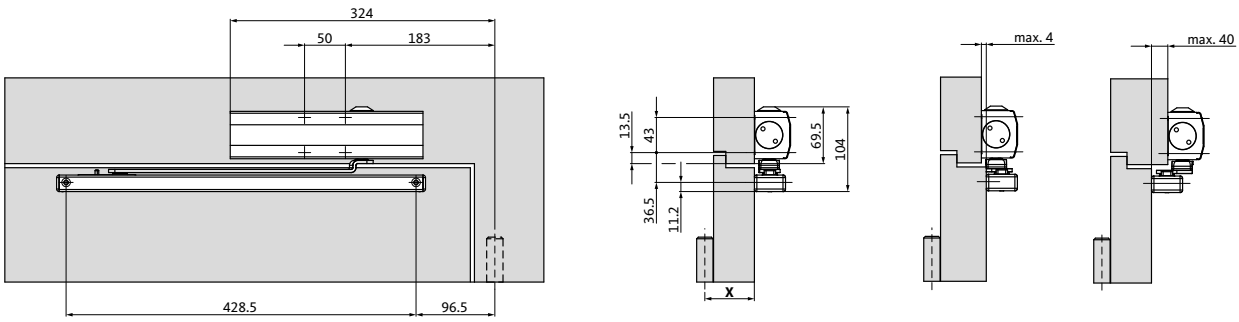
OTS 430 G overhead door closer – Installation situations

Side opposite to hinges

Transom installation on side opposite to hinges



with mounting plate



without mounting plate

Max. door opening angle depending on dimension X
Transom installation on side opposite to hinges

Dim. X	Max. door opening angle
70 mm	122°
80 mm	116°
90 mm	111°
100 mm	106°
110 mm	102°

OTS 210 G overhead door closer

For door leaf widths up to 850 mm

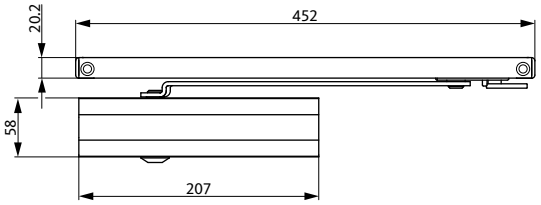


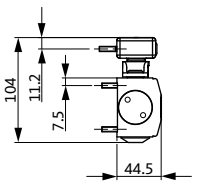
Product characteristics

- Door closer for 1-leaf doors with door leaf widths up to 850 mm
- Closing force size EN 2
- Valve functions which can be steplessly adjusted from the front:
  – Closing speed
  – Latching speed
- Thermomatic valves ensure a uniform closing speed in the event of temperature fluctuations
- Security valves in the closer protect against overloading
- Max. door opening and closing angle 180° [1]
- Controlled closing from every opening angle
- Compact aluminium housing with contemporary GU design

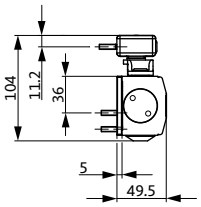
Optional:

- Mechanical hold-open device, on/off switchable, for door openings from 70°–150° [1]
- Mechanical opening restrictor for installation in the slide rail, adjustable from 80°–120° [1] [3]





without mounting plate



with mounting plate

OTS 210 G overhead door closer

Designation	Description	Finish	Order number
OTS 210 overhead door closer	without slide rail	silver	K-15710-01-0-1
		dark bronze	K-15710-01-0-5
		black (RAL 9005)	K-15710-01-0-6
		white (RAL 9016)	K-15710-01-0-7

Slide rail

Designation	Description	Finish	Order number
Slide rail	without hold-open	silver	K-17183-02-0-1
		dark bronze	K-17183-02-0-5
		black (RAL 9005)	K-17183-02-0-6
		white (RAL 9016)	K-17183-02-0-7
	with mechanical hold-open, on/off switchable	silver	K-17183-01-0-1
		dark bronze	K-17183-01-0-5
		black (RAL 9005)	K-17183-01-0-6
		white (RAL 9016)	K-17183-01-0-7

Note: door closer and slide rail must be ordered separately.

Application ranges

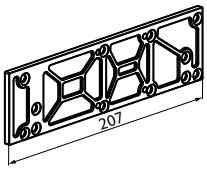
- 1-leaf swing doors
- Door leaf widths up to 850 mm
- DIN left and DIN right-handed
- Standard installation on hinge-side
- Transom installation on side opposite to hinges [2]

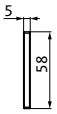
[1] Standard installation on hinge-side.
[2] Position doorstop for max. door opening angle.
[3] **Attention:** in many applications, this opening restrictor is not a substitute for the doorstop!

DIN 18040

OTS 210 G overhead door closer – Accessories

Mounting plates, mechanical hold-open, opening restrictor

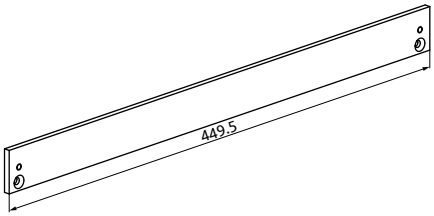




Mounting plate for door closer

Versions/Order numbers

Designation	Finish	Order number
Mounting plate for door closer	silver	K-15714-00-0-1
	dark bronze	K-15714-00-0-5
	black (RAL 9005)	K-15714-00-0-6
	white (RAL 9016)	K-15714-00-0-7

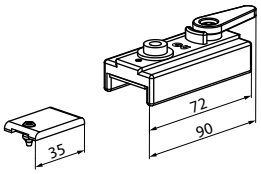




Mounting plate for slide rail

Versions/Order numbers

Designation	Finish	Order number
Mounting plate for slide rail	silver	K-15080-00-0-1



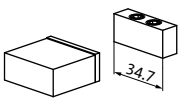
Mechanical hold-open device MF-EA

Upgrade set for slide rail without hold-open

- Hold-open angle adjustable from 70°–150°
- Opening beyond hold-open angle possible
- On/off switchable

Versions/Order numbers

Designation	Finish	Order number
Mechanical hold-open device MF-EA Upgrade set	black (RAL 9005)	K-17286-00-0-6



Opening restrictor [1]

- Opening angle adjustable from 80°–120°

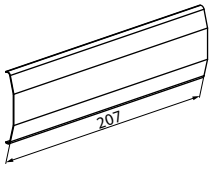
Versions/Order numbers

Designation	Finish	Order number
Opening restrictor, mechanical	–	K-17863-00-0-0

[1] **Attention:** in many applications, this opening restrictor is not a substitute for the doorstop!

OTS 210 G overhead door closer – Accessories

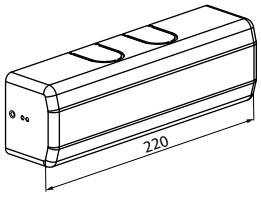
Sliding cover, cover, drilling jigs

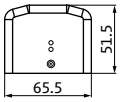


Sliding cover

Versions/Order numbers

Designation	Finish	Order number
Sliding cover	silver	K-18405-00-0-1
	dark bronze	K-18405-00-0-5
	black (RAL 9005)	K-18405-00-0-6
	white (RAL 9016)	K-18405-00-0-7

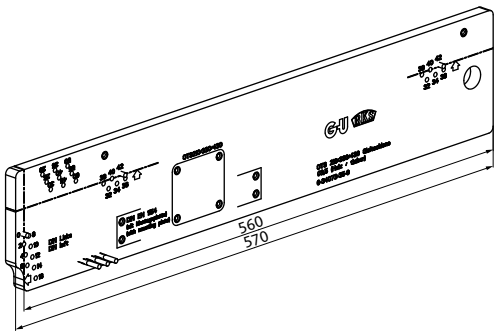


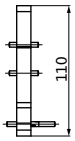


Cover

Versions/Order numbers

Designation	Finish	Order number
Cover	Stainless steel	K-17387-01-0-8





Drilling jigs

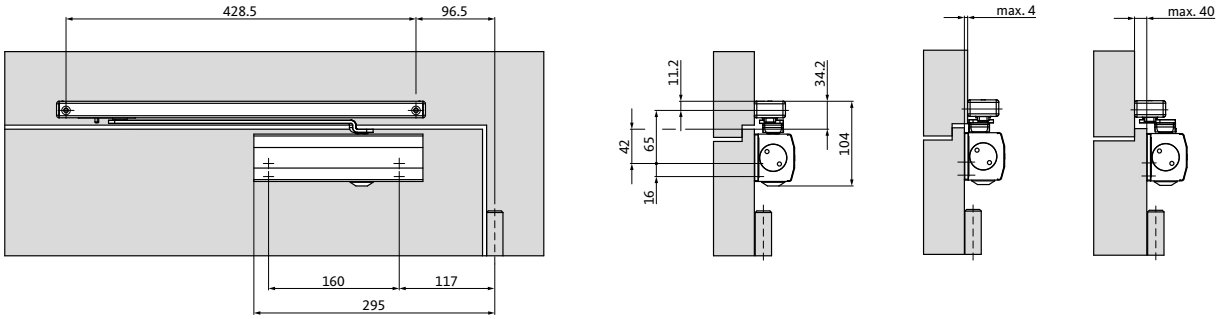
Versions/Order numbers

Designation	Drill hole Ø	Order number
Drilling jigs	Timber Drill hole Ø 3.5 mm	K-17807-35-0-0
	Metal Drill hole Ø 4.2 mm	K-17807-42-0-0

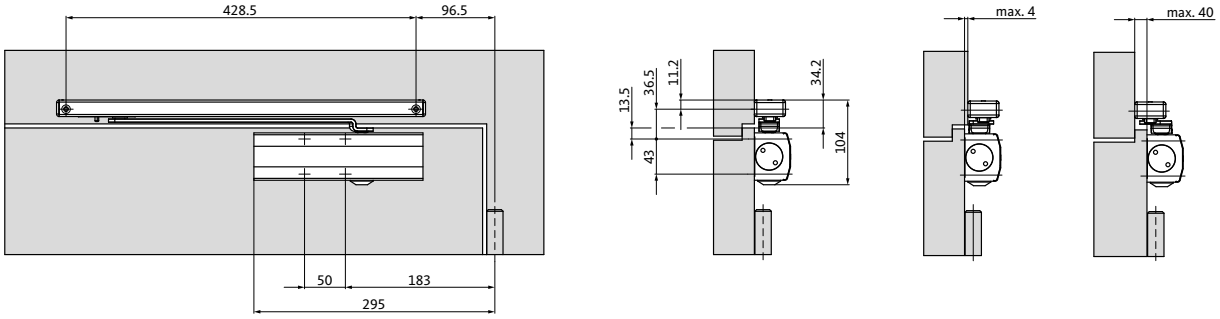
OTS 210 G overhead door closer – Installation situations

Hinge-side

Standard installation on hinge-side



with mounting plate

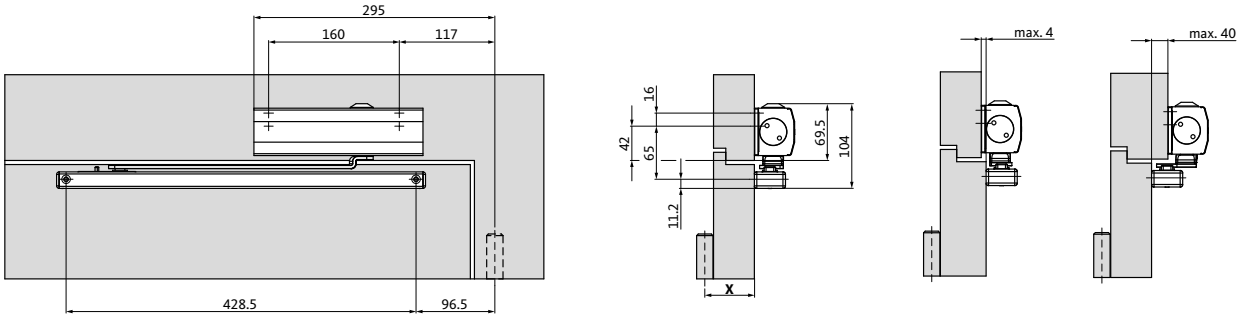


without mounting plate

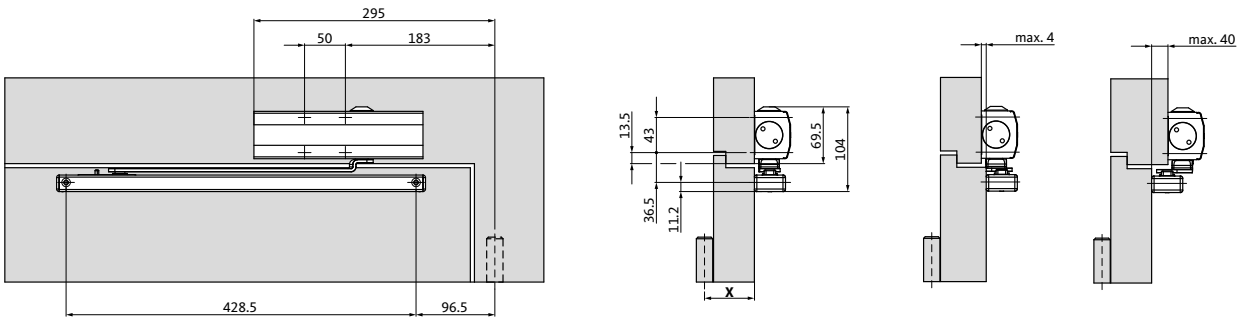
OTS 210 G overhead door closer – Installation situations

Side opposite to hinges

Transom installation on side opposite to hinges



with mounting plate



without mounting plate

Max. door opening angle depending on dimension X
Transom installation on side opposite to hinges

Dim. X	Max. door opening angle
70 mm	122°
80 mm	117°
90 mm	112°
100 mm	107°
110 mm	103°

Surface-mounted overhead door closers with scissor-action arm



Table of contents

Surface-mounted overhead door closers with scissor-action arm

OTS 536

For door leaf widths up to 1400 mm

OTS 536 overhead door closer — from page 110
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OTS 536 overhead door closer – Installation situations — from page 116

OTS 430

For door leaf widths up to 1250 mm

OTS 430 overhead door closer — from page 118
OTS 430 overhead door closer – Accessories — from page 120
OTS 430 overhead door closer – Installation situations — from page 124

OTS 210

For total door leaf widths up to 1100 mm

OTS 210 overhead door closer — from page 126
OTS 210 overhead door closer – Accessories — from page 128
OTS 210 overhead door closer – Installation situations — from page 132

OTS 140

For door leaf widths up to 1100 mm

OTS 140 overhead door closer — from page 134
OTS 140 overhead door closer – Accessories — from page 135
OTS 140 overhead door closer – Installation situations — from page 136

OTS 134

For door leaf widths up to 1100 mm

OTS 134 overhead door closer — from page 138
OTS 134 overhead door closer – Accessories — from page 139
OTS 134 overhead door closer – Installation situations — from page 140

OTS 8x series

For door leaf widths up to 1280 mm

OTS 81 crank closer — from page 142
OTS 81 crank closer – Accessories — from page 144

For door leaf widths up to 1600 mm

OTS 80 crank closer — from page 148
OTS 80 crank closer – Accessories — from page 150

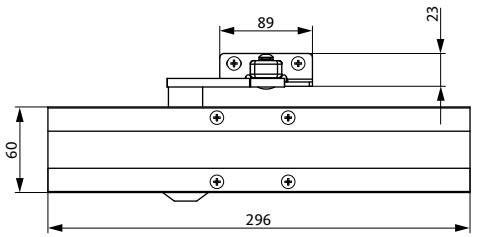
OTS 536 overhead door closer

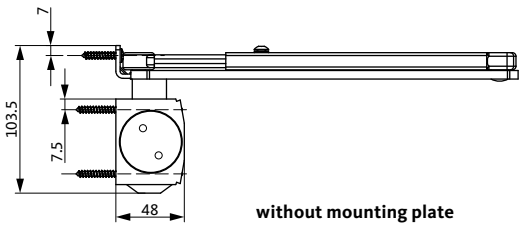
Closing force sizes EN 2-6 – for door leaf widths up to 1400 mm



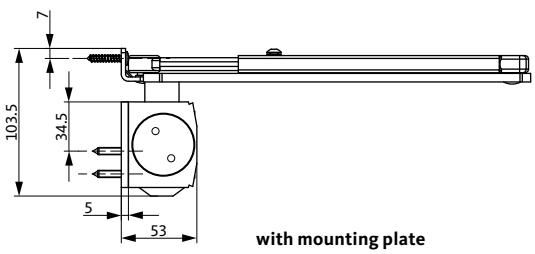
Product characteristics

- Door closer for 1-leaf doors with door leaf widths up to 1400 mm
- Tested and certified in accordance with EN 1154
- Steplessly horizontally adjustable closing force size EN 2-6 [1]
- Valve functions which can be steplessly adjusted from the front:
  – Closing speed
  – Latching speed
  – Backcheck
- Thermomatic valves ensure smooth closing function in the event of temperature fluctuations
- Security valves in the closer protect against overloading
- Max. door opening and closing angle 180° [2]
- Controlled closing from every opening angle
- Compact aluminium housing with contemporary GU design
- **Optional**
  – Mechanical hold-open arm, adjustable for door openings between 70° and 150°; can be switched on and off [3]
  – Extended arms for reveal depths up to 149 mm
  – Delayed closing action (type OTS 536 SV) [3]





without mounting plate



with mounting plate

Classification code in accordance with EN 1154						
OTS 536	4	8	2/6	1	1	3

OTS 536 overhead door closer – EN 2-6 (= door leaf widths up to 1400 mm)

Designation	Description	Finish	Order number
OTS 536 overhead door closer	without scissor-action arm	silver	K-17920-00-0-1
		dark bronze	K-17920-00-0-5
		black (RAL 9005)	K-17920-00-0-6
		white (RAL 9016)	K-17920-00-0-7
	with standard arm	silver	K-17729-00-0-1
		dark bronze	K-17729-00-0-5
		black (RAL 9005)	K-17729-00-0-6
		white (RAL 9016)	K-17729-00-0-7
OTS 536 SV overhead door closer [3]	without scissor-action arm with delayed closing action	silver	K-17921-00-0-1
		dark bronze	K-17921-00-0-5
		white (RAL 9016)	K-17921-00-0-7

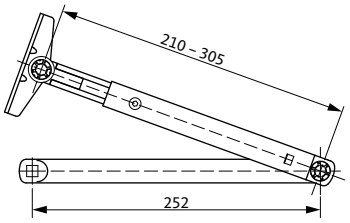
Application ranges

- 1-leaf fire and smoke protection doors
- 1-leaf swing doors
- Door leaf widths up to 1400 mm
- DIN left and DIN right-handed
- Standard installation on hinge-side
- Transom installation on side opposite to hinges [4]
- Use on fire and smoke protection doors is only permitted when using the mounting plate.

[1] Factory condition size 4.
[2] Standard installation on hinge-side.
[3] Not approved for fire and smoke protection doors.
[4] Opening angle dependent on door conditions.

OTS 536 overhead door closer – Accessories

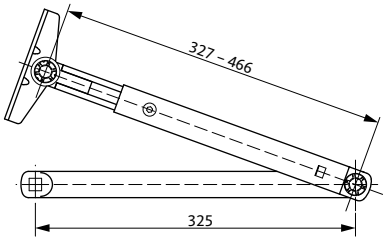
Standard arm, extended scissor-action arm, hold-open arm



Standard arm

Versions/Order numbers

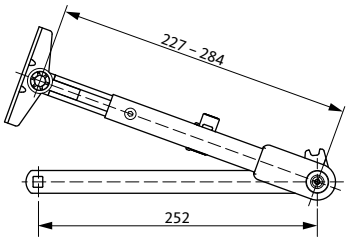
Designation	Finish	Order number
Standard arm	silver	K-17922-04-0-1
	dark bronze	K-17922-04-0-5
	black (RAL 9005)	K-17922-04-0-6
	white (RAL 9016)	K-17922-04-0-7



Extended scissor-action arm

Versions/Order numbers

Designation	Finish	Order number
Extended scissor-action arm	silver	K-17922-14-0-1
	dark bronze	K-17922-14-0-5
	white (RAL 9016)	K-17922-14-0-7



Mechanical hold-open arm E/A [1]

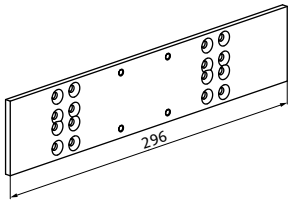
Versions/Order numbers

Designation	Finish	Order number
Mechanical hold-open arm E/A, on/off switchable	silver	K-17923-00-0-1
	dark bronze	K-17923-00-0-5
	black (RAL 9005)	K-17923-00-0-6
	white (RAL 9016)	K-17923-00-0-7

[1] Not approved for fire and smoke protection doors.

OTS 536 overhead door closer – Accessories

Mounting plate, combined angular bracket, clamping plate

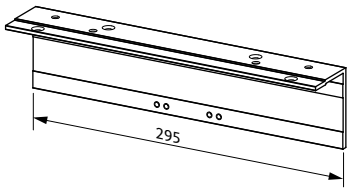


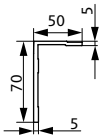


Mounting plate

Versions/Order numbers

Designation	Finish	Order number
Mounting plate for door closer	silver	K-19640-00-0-1
	dark bronze	K-19640-00-0-5
	black (RAL 9005)	K-19640-00-0-6
	white (RAL 9016)	K-19640-00-0-7

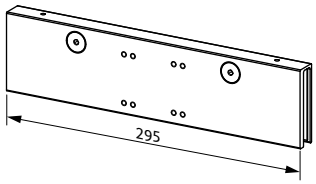


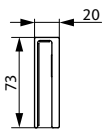


Combined angular bracket

Versions/Order numbers

Designation	Finish	Order number
Combined angular bracket	silver	K-17932-00-0-1
	dark bronze	K-17932-00-0-5
	white (RAL 9016)	K-17932-00-0-7





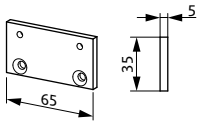
Clamping plate for all-glass doors

Versions/Order numbers

Designation	Finish	Order number
Clamping plate for all-glass doors	silver	K-17933-00-0-1
	dark bronze	K-17933-00-0-5
	white (RAL 9016)	K-17933-00-0-7

OTS 536 overhead door closer – Accessories

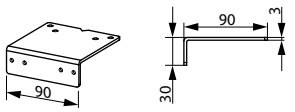
Bearing plate, angular bracket, axle extension



Bearing plate for linkage support

Versions/Order numbers

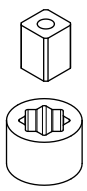
Designation	Finish	Order number
Bearing plate for linkage support	silver	K-14215-00-0-1



Angular bracket for parallel arm assembly

Versions/Order numbers

Designation	Finish	Order number
Angular bracket for parallel arm assembly	silver	K-17709-00-0-1
	dark bronze	K-17709-00-0-5
	white (RAL 9016)	K-17709-00-0-7



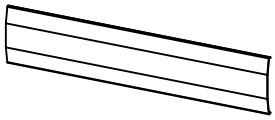
Axle extension

Versions/Order numbers

Designation	Finish	Order number
Axle extension 16 mm	silver	K-17738-00-0-1

OTS 536 overhead door closer – Accessories

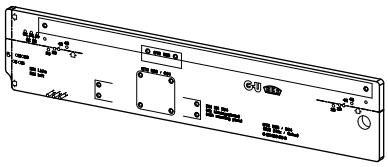
Sliding cover, drilling templates



Sliding cover

Versions/Order numbers

Designation	Finish	Order number
Sliding cover	silver	K-18407-00-0-1
	dark bronze	K-18407-00-0-5
	black (RAL 9005)	K-18407-00-0-6
	white (RAL 9016)	K-18407-00-0-7



Drilling jigs

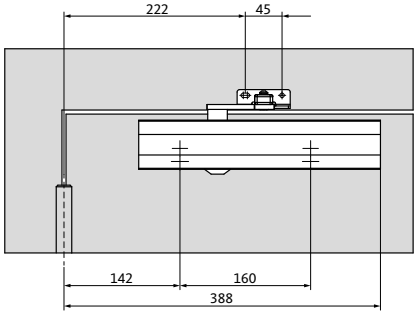
Versions/order numbers

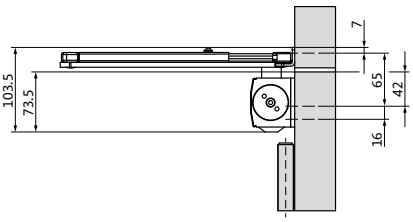
Designation	Drill hole Ø	Order number
Drilling jigs	Timber Drill hole Ø 3.5 mm	K-17975-35-0-0
	Metal Drill hole Ø 4.2 mm	K-17975-42-0-0

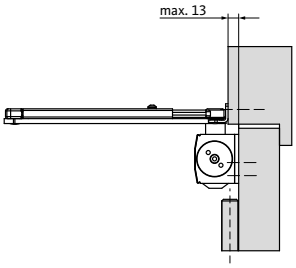
OTS 536 overhead door closer – Installation situations

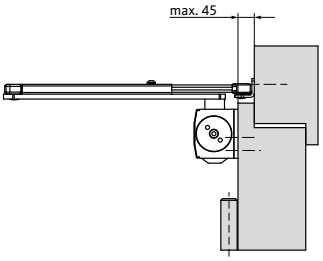
Hinge-side

Standard installation on hinge-side

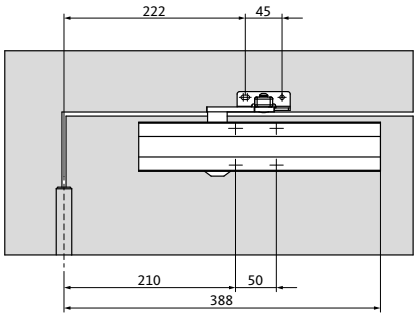


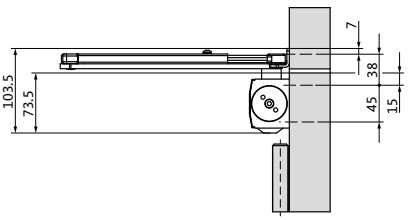


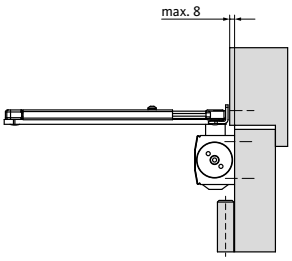


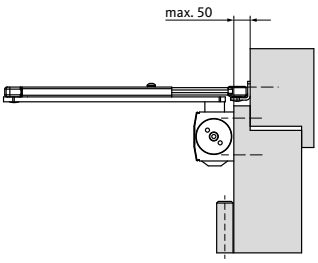


with mounting plate







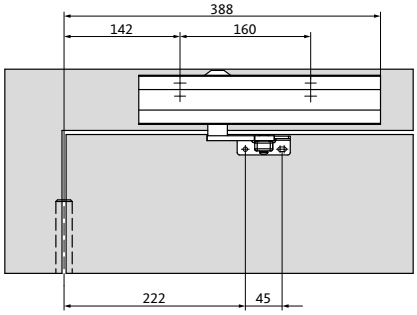


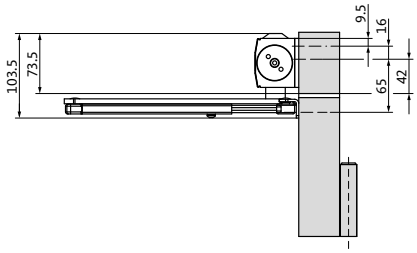
without mounting plate

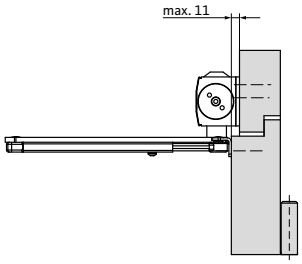
OTS 536 overhead door closer – Installation situations

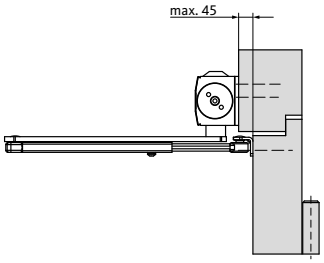
Side opposite to hinges

Transom installation on side opposite to hinges

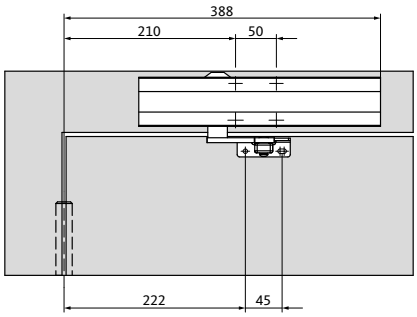


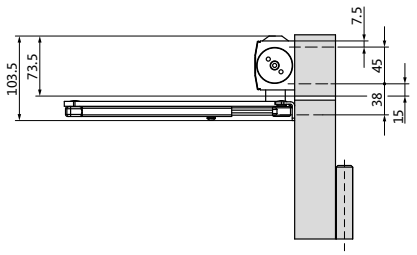


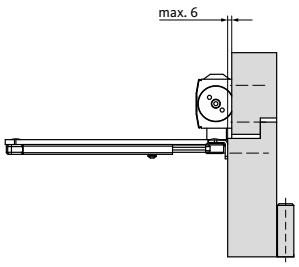


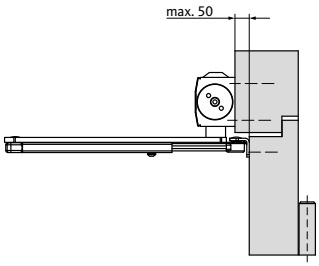


with mounting plate







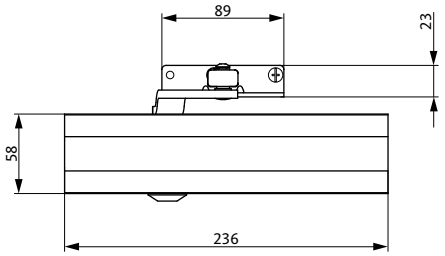


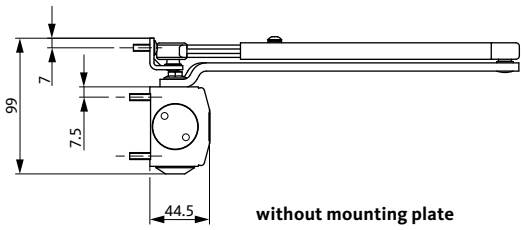
without mounting plate

OTS 430 overhead door closer

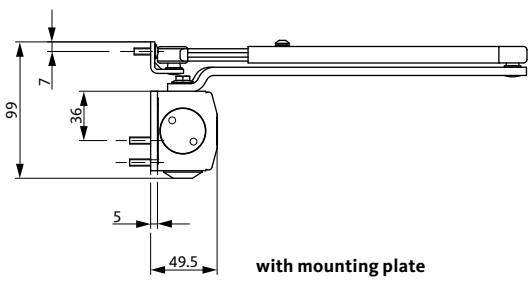
Closing force sizes EN 2-5 – for door leaf widths up to 1250 mm







without mounting plate



with mounting plate

Product characteristics

- Door closer for 1-leaf doors with door leaf widths up to 1250 mm
- Tested and certified in accordance with EN 1154
- Steplessly horizontally adjustable closing force size EN 2-5 [1]
- Valve functions which can be steplessly adjusted from the front:
  – Closing speed
  – Latching speed
- Thermomatic valves ensure a uniform closing speed in the event of temperature fluctuations
- Security valves in the closer protect against overloading
- Max. door opening and closing angle 180° [2]
- Controlled closing from every opening angle
- Compact aluminium housing with contemporary GU design
- **Optional**
  – Mechanical hold-open arm, adjustable for door openings between 70° and 150°; can be switched on and off [3]
  – Steplessly adjustable backcheck tested in accordance with EN 1154 (type OTS 430 BC)

Classification code in accordance with EN 1154						
OTS 430/OTS 430 BC	4	8	2/5	1	1	4

OTS 430 overhead door closer – EN 2-5 (= door leaf widths up to 1250 mm)

Designation	Description	Finish	Order number
OTS 430 overhead door closer	without scissor-action arm	silver	K-17983-00-0-1
		dark bronze	K-17983-00-0-5
		black (RAL 9005)	K-17983-00-0-6
		white (RAL 9016)	K-17983-00-0-7
	with standard arm	silver	K-17051-00-0-1
		dark bronze	K-17051-00-0-5
		black (RAL 9005)	K-17051-00-0-6
		white (RAL 9016)	K-17051-00-0-7
OTS 430 BC overhead door closer	without scissor-action arm with backcheck	silver	K-17982-00-0-1
		dark bronze	K-17982-00-0-5
		white (RAL 9016)	K-17982-00-0-7

Application ranges

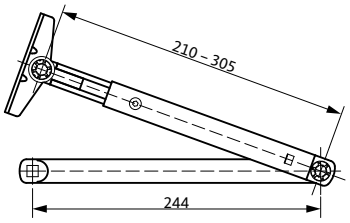
- 1-leaf fire and smoke protection doors
- 1-leaf swing doors
- Door leaf widths up to 1250 mm
- DIN left and DIN right-handed
- Standard installation on hinge-side
- Transom installation on side opposite to hinges [4]
- Use on fire and smoke protection doors is only permitted when using the mounting plate.

[1] Factory condition size 3.
[2] Standard installation on hinge-side.
[3] Not approved for fire and smoke protection doors.
[4] Opening angle dependent on door conditions.

EN 1154

OTS 430 overhead door closer – Accessories

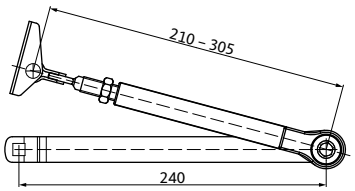
Standard arm, hold-open arm



Standard arm

Versions/Order numbers

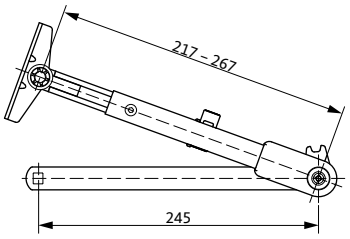
Designation	Finish	Order number
Standard arm	silver	K-16571-00-0-1
	dark bronze	K-16571-00-0-5
	black (RAL 9005)	K-16571-00-0-6
	white (RAL 9016)	K-16571-00-0-7



Mechanical hold-open arm [1]

Versions/order numbers

Designation	Finish	Part number
Mechanical hold-open arm	silver	K-16572-00-0-1
	dark bronze	K-16572-00-0-5
	white (RAL 9016)	K-16572-00-0-7



Mechanical hold-open arm E/A [1]

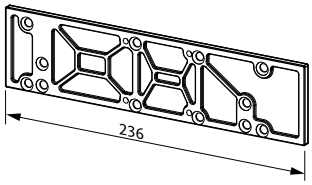
Versions/Order numbers

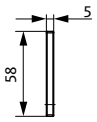
Designation	Finish	Order number
Mechanical hold-open arm E/A, on/off switchable	silver	K-17456-00-0-1
	dark bronze	K-17456-00-0-5
	black (RAL 9005)	K-17456-00-0-6
	white (RAL 9016)	K-17456-00-0-7

[1] Not approved for fire and smoke protection doors.

OTS 430 overhead door closer – Accessories

Mounting plate, angular lintel bracket, clamping plate

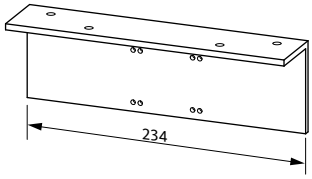


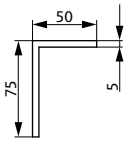


Mounting plate

Versions/Order numbers

Designation	Finish	Order number
Mounting plate	silver	K-16547-00-0-1
	dark bronze	K-16547-00-0-5
	black (RAL 9005)	K-16547-00-0-6
	white (RAL 9016)	K-16547-00-0-7

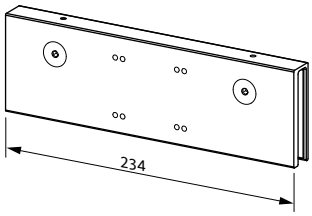


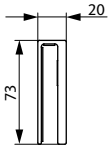


Angular lintel bracket

Versions/Order numbers

Designation	Finish	Order number
Angular lintel bracket	silver	K-16551-00-0-1
	dark bronze	K-16551-00-0-5
	white (RAL 9016)	K-16551-00-0-7





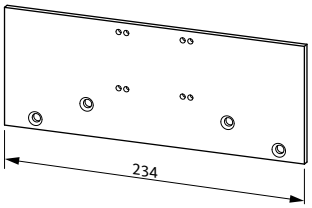
Clamping plate for all-glass doors

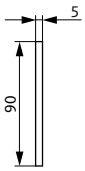
Versions/Order numbers

Designation	Finish	Order number
Clamping plate for all-glass doors	silver	K-16553-00-0-1
	dark bronze	K-16553-00-0-5
	white (RAL 9016)	K-16553-00-0-7

OTS 430 overhead door closer – Accessories

Flat plate, bearing plate, angular bracket

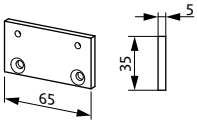




Flat plate for segmental arch head doors

Versions/Order numbers

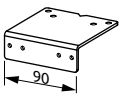
Designation	Finish	Order number
Flat plate for segmental arch head doors	silver	K-16549-00-0-1
	dark bronze	K-16549-00-0-5
	white (RAL 9016)	K-16549-00-0-7

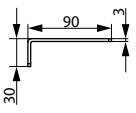


Bearing plate

Versions/Order numbers

Designation	Finish	Order number
Bearing plate	silver	K-14215-00-0-1





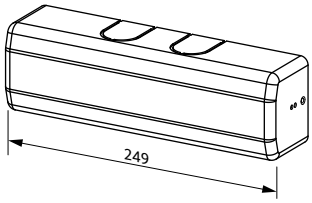
Angular bracket for parallel arm assembly

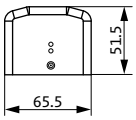
Versions/Order numbers

Designation	Finish	Order number
Angular bracket for parallel arm assembly	silver	K-17709-00-0-1
	dark bronze	K-17709-00-0-5
	white (RAL 9016)	K-17709-00-0-7

OTS 430 overhead door closer – Accessories

Cover, sliding cover, drilling jigs

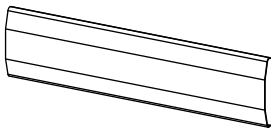




Cover

Versions/Order numbers

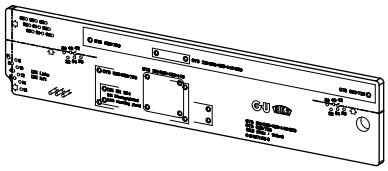
Designation	Finish	Order number
Cover	stainless steel	K-17387-02-0-8



Sliding cover

Versions/Order numbers

Designation	Finish	Order number
Sliding cover	silver	K-18406-00-0-1
	dark bronze	K-18406-00-0-5
	black (RAL 9005)	K-18406-00-0-6
	white (RAL 9016)	K-18406-00-0-7



Drilling jigs

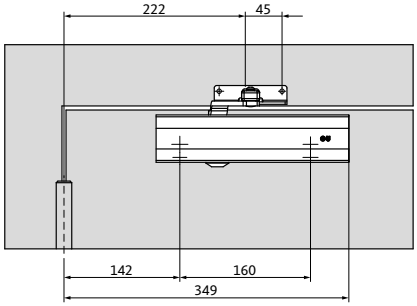
Versions/order numbers

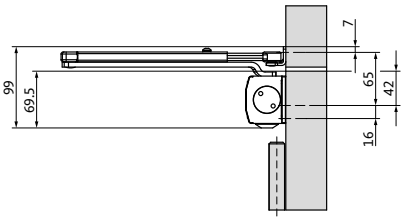
Designation	Drill hole Ø	Order number
Drilling jigs	Timber Drill hole Ø 3.5 mm	K-17805-35-0-0
	Metal Drill hole Ø 4.2 mm	K-17805-42-0-0

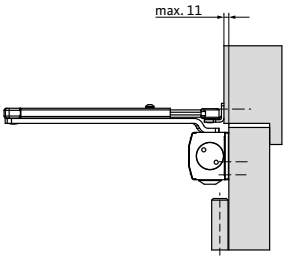
OTS 430 overhead door closer – Installation situations

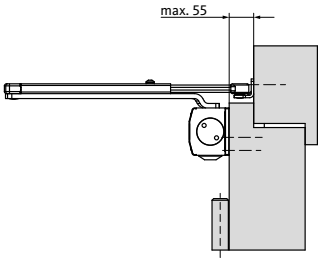
Hinge-side

Standard installation on hinge-side

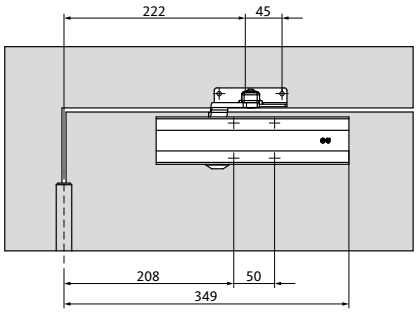


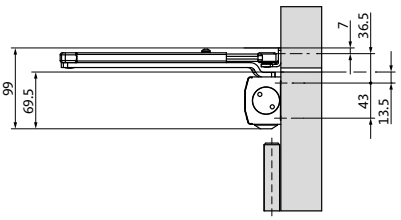


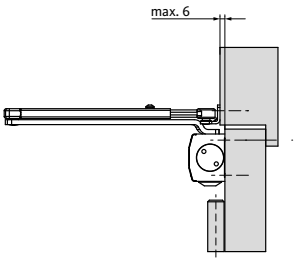


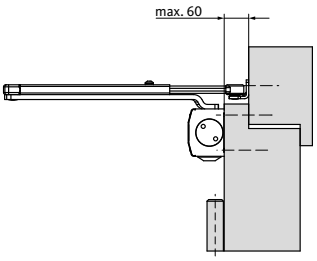


with mounting plate







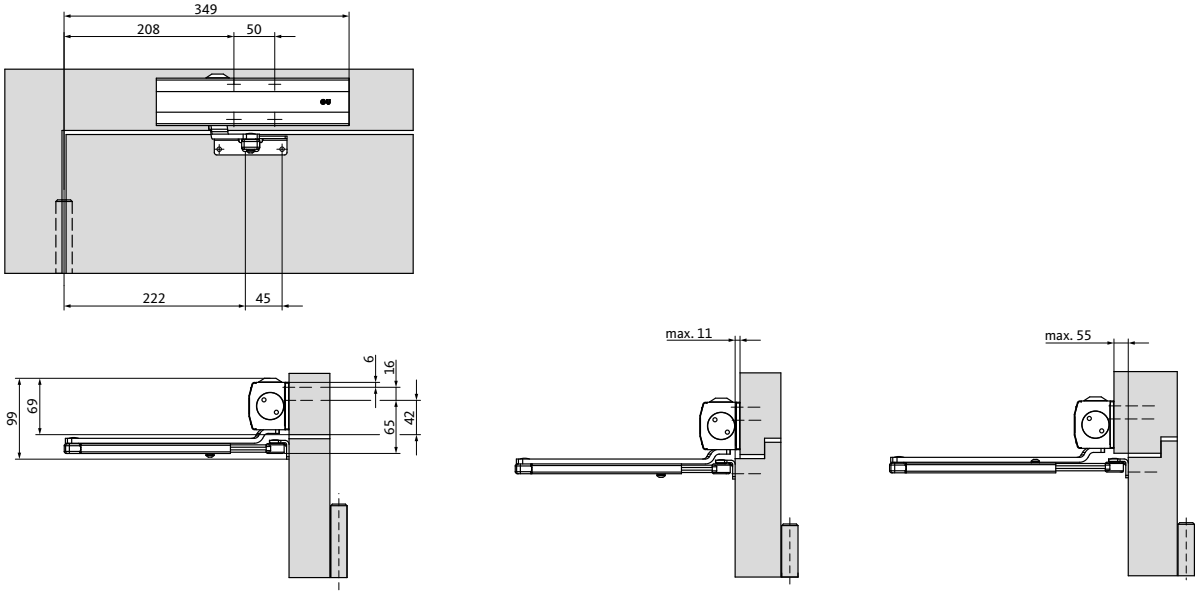


without mounting plate

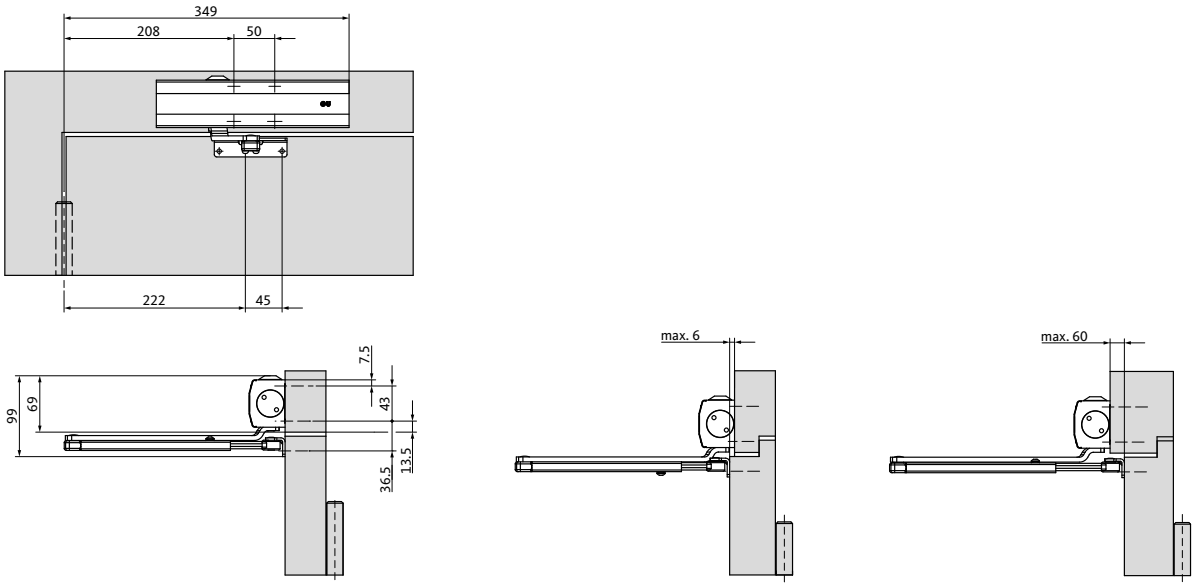
OTS 430 overhead door closer – Installation situations

Side opposite to hinges

Transom installation on side opposite to hinges



with mounting plate



without mounting plate

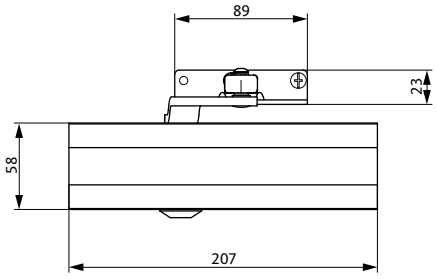
OTS 210 overhead door closer

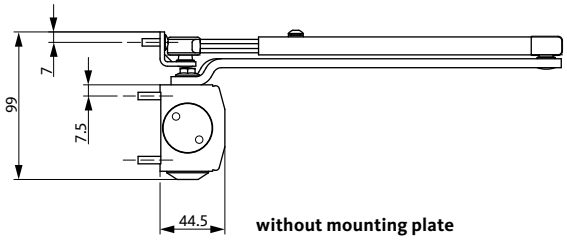
Closing force size EN 2/3/4 – for door leaf widths up to 1100 mm



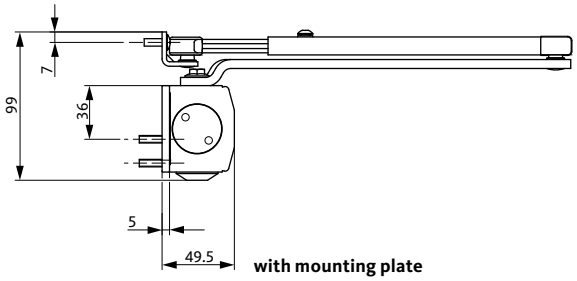
Product characteristics

- Door closer for 1-leaf doors with door leaf widths up to 1100 mm
- Closing force sizes 2/3/4; sizes can be adjusted by moving the closer
- Valve functions which can be steplessly adjusted from the front:
  – Closing speed
  – Latching speed
- Thermomatic valves ensure a uniform closing speed in the event of temperature fluctuations
- Security valves in the closer protect against overloading
- Max. door opening and closing angle 180° [1]
- Controlled closing from every opening angle
- Compact aluminium housing with contemporary GU design
- Optional: mechanical hold-open arm, adjustable for door openings between 70° and 150°; can be switched on and off





without mounting plate



with mounting plate

Classification code in accordance with EN 1154						
OTS 210	4	8	2 4	0	1	3

OTS 210 overhead door closer – EN 2/3/4 (= door leaf widths up to 1100 mm)

Designation	Description	Finish	Order number
OTS 210 overhead door closer	without scissor-action arm	silver	K-15710-01-0-1
		dark bronze	K-15710-01-0-5
		black (RAL 9005)	K-15710-01-0-6
		white (RAL 9016)	K-15710-01-0-7
	with standard arm	silver	K-15710-00-0-1
		dark bronze	K-15710-00-0-5
		black (RAL 9005)	K-15710-00-0-6
		white (RAL 9016)	K-15710-00-0-7

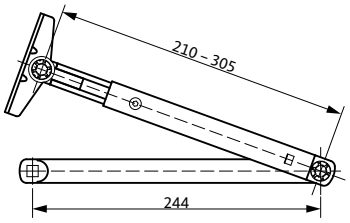
Application ranges

- 1-leaf swing doors
- Door leaf widths up to 1100 mm
- DIN left and DIN right-handed
- Standard installation on hinge-side
- Transom installation on side opposite to hinges [2]

[1] Standard installation on hinge-side.
[2] Opening angle dependent on door conditions.

OTS 210 overhead door closer – Accessories

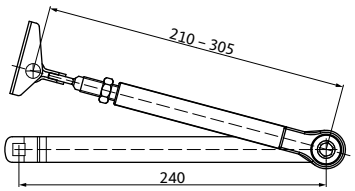
Standard arm, hold-open arm, mounting plate



Standard arm

Versions/Order numbers

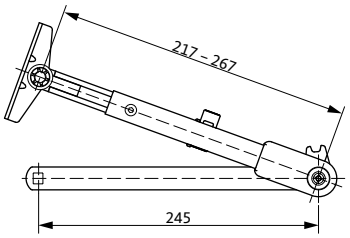
Designation	Finish	Order number
Standard arm	silver	K-16571-00-0-1
	dark bronze	K-16571-00-0-5
	black (RAL 9005)	K-16571-00-0-6
	white (RAL 9016)	K-16571-00-0-7



Mechanical hold-open arm

Versions/order numbers

Designation	Finish	Part number
Mechanical hold-open arm	silver	K-16572-00-0-1
	dark bronze	K-16572-00-0-5
	white (RAL 9016)	K-16572-00-0-7



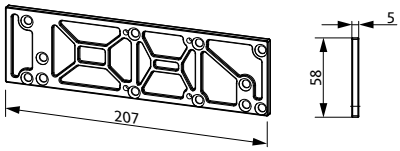
Mechanical hold-open arm E/A

Versions/Order numbers

Designation	Finish	Order number
Mechanical hold-open arm E/A, on/off switchable	silver	K-17456-00-0-1
	dark bronze	K-17456-00-0-5
	black (RAL 9005)	K-17456-00-0-6
	white (RAL 9016)	K-17456-00-0-7

OTS 210 overhead door closer – Accessories

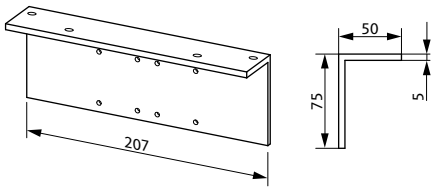
Mounting plate, angular lintel bracket, clamping plate



Mounting plate

Versions/Order numbers

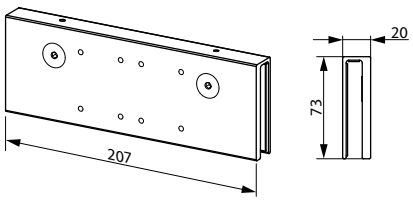
Designation	Finish	Order number
Mounting plate	silver	K-15714-00-0-1
	dark bronze	K-15714-00-0-5
	black (RAL 9005)	K-15714-00-0-6
	white (RAL 9016)	K-15714-00-0-7



Angular lintel bracket

Versions/Order numbers

Designation	Finish	Order number
Angular lintel bracket	silver	K-16550-00-0-1
	dark bronze	K-16550-00-0-5
	white (RAL 9016)	K-16550-00-0-7



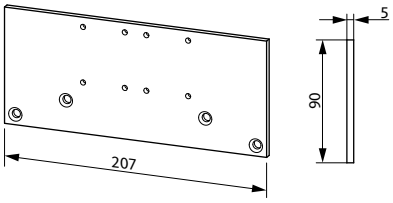
Clamping plate for all-glass doors

Versions/Order numbers

Designation	Finish	Order number
Clamping plate for all-glass doors	silver	K-16552-00-0-1
	dark bronze	K-16552-00-0-5
	white (RAL 9016)	K-16552-00-0-7

OTS 210 overhead door closer – Accessories

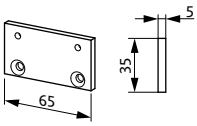
Flat plate, bearing plate, angular bracket



Flat plate for segmental arch head doors

Versions/Order numbers

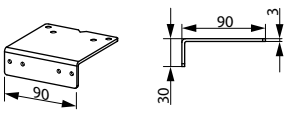
Designation	Finish	Order number
Flat plate for segmental arch head doors	silver	K-16548-00-0-1
	dark bronze	K-16548-00-0-5
	white (RAL 9016)	K-16548-00-0-7



Bearing plate

Versions/Order numbers

Designation	Finish	Order number
Bearing plate	silver	K-14215-00-0-1



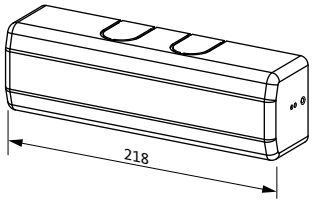
Angular bracket for parallel arm assembly

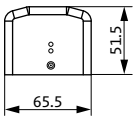
Versions/Order numbers

Designation	Finish	Order number
Angular bracket for parallel arm assembly	silver	K-17709-00-0-1
	dark bronze	K-17709-00-0-5
	white (RAL 9016)	K-17709-00-0-7

OTS 210 overhead door closer – Accessories

Cover, sliding cover, drilling jigs

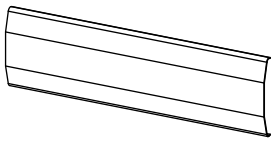




Cover

Versions/Order numbers

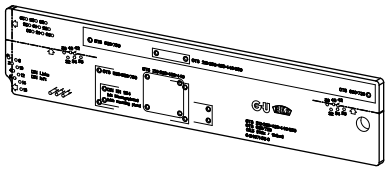
Designation	Finish	Order number
Cover	Stainless steel	K-17387-01-0-8



Sliding cover

Versions/Order numbers

Designation	Finish	Order number
Sliding cover	silver	K-18405-00-0-1
	dark bronze	K-18405-00-0-5
	black (RAL 9005)	K-18405-00-0-6
	white (RAL 9016)	K-18405-00-0-7



Drilling jigs

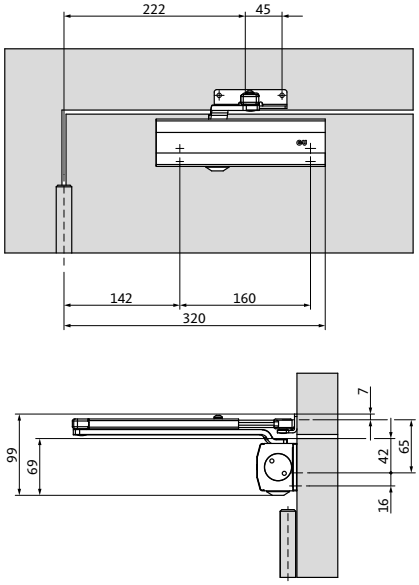
Versions/order numbers

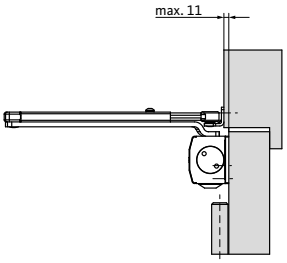
Designation	Drill hole Ø	Order number
Drilling jigs	Timber Drill hole Ø 3.5 mm	K-17805-35-0-0
	Metal Drill hole Ø 4.2 mm	K-17805-42-0-0

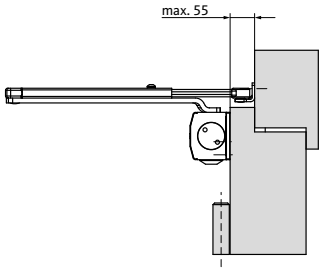
OTS 210 overhead door closer – Installation situations

Hinge-side

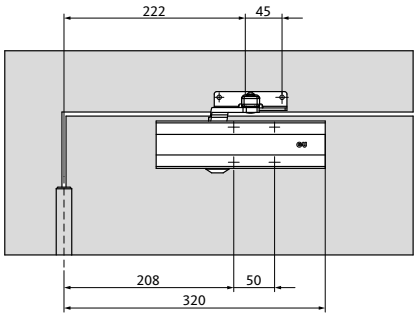
Standard installation on hinge-side

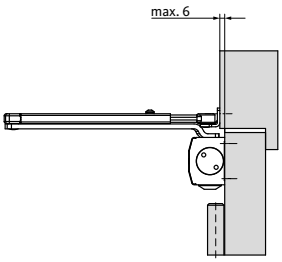


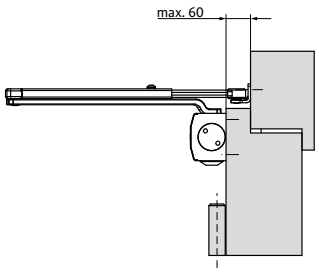




with mounting plate





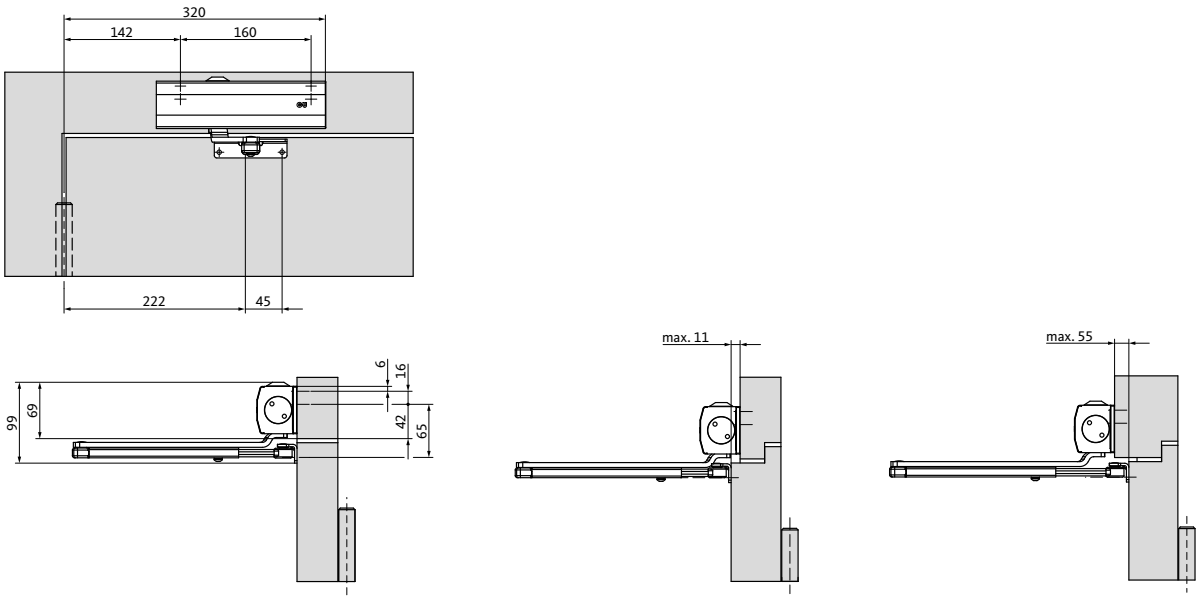


without mounting plate

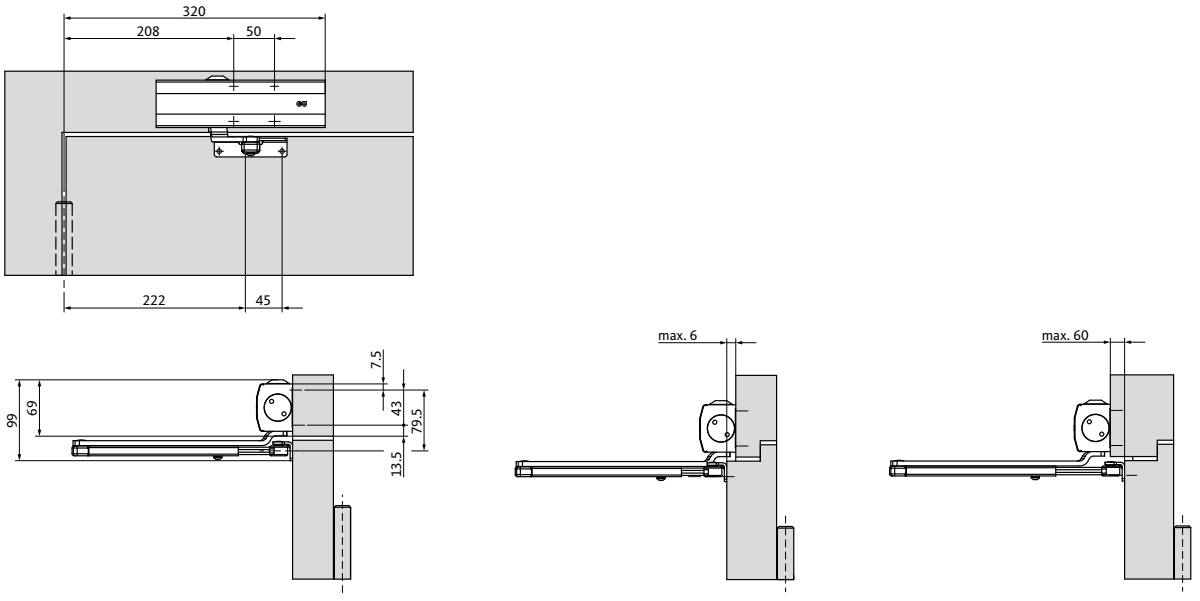
OTS 210 overhead door closer – Installation situations

Side opposite to hinges

Transom installation on side opposite to hinges



with mounting plate

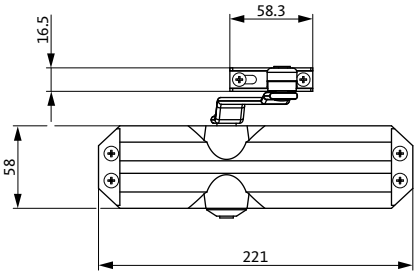


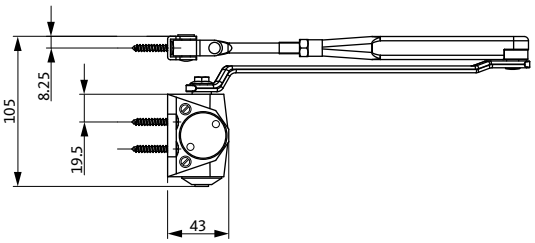
without mounting plate

OTS 140 overhead door closer

Closing force size EN 2/3/4 – for door leaf widths up to 1100 mm







Product characteristics

- Door closer for 1-leaf doors with door leaf widths up to 1100 mm
- Closing forces 2/3/4 - adjusted by shifting the closer body and turning the linkage pivot bracket
- Stepless valve adjustment for:
  – Closing speed
  – Latching speed
- Thermomatic valves ensure a uniform closing speed in the event of temperature fluctuations
- Security valves in the closer protect against overloading
- Max. door opening and closing angle 180° [1]
- Controlled closing from every opening angle
- Compact, state-of-the-art aluminium housing
- Mechanical hold-open arm, adjustable for door openings between 70° and 130°

OTS 140 overhead door closer

Designation	Description	Finish	Order number
OTS 140 overhead door closer	with standard arm	silver	K-17041-00-0-1
		dark bronze	K-17041-00-0-5
		black (RAL 9005)	K-17041-00-0-6
		white (RAL 9016)	K-17041-00-0-7
	with hold-open arm, mechanical	silver	K-17042-00-0-1
		dark bronze	K-17042-00-0-5
		black (RAL 9005)	K-17042-00-0-6
		white (RAL 9016)	K-17042-00-0-7

Accessories

Designation	Finish	Order number
Angular bracket for parallel arm assembly	silver	K-17709-00-0-1
	dark bronze	K-17709-00-0-5
	white (RAL 9016)	K-17709-00-0-7

Application ranges

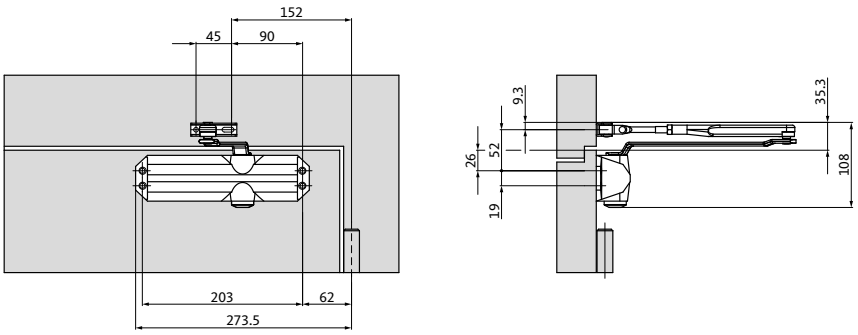
- 1-leaf swing doors
- Door leaf widths up to 1100 mm
- DIN left and DIN right-handed
- Standard installation on hinge-side
- Transom installation on side opposite to hinges [2]
- Parallel arm assembly [3]

[1] Standard installation on hinge-side.
[2] Opening angle dependent on door conditions.
[3] Only in combination with angular bracket K-17709.

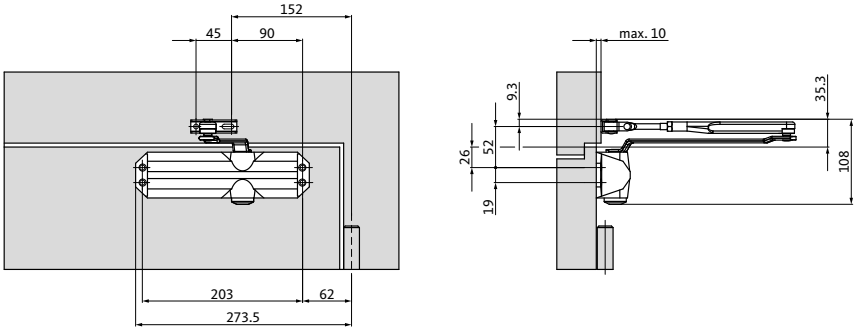
OTS 140 overhead door closer – Installation situations

Flush and rebated doors – hinge-side

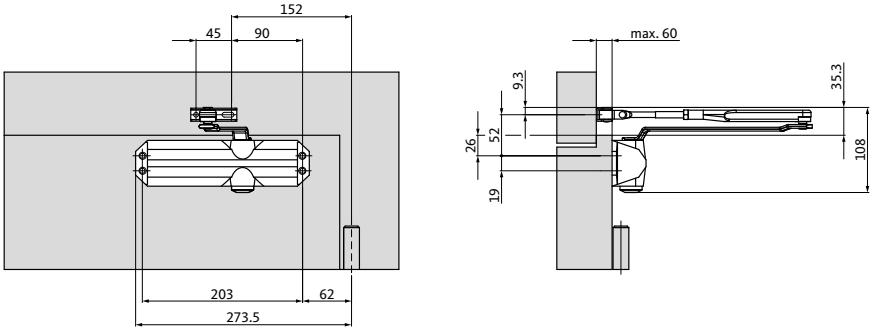
Standard installation on hinge-side



Flush profile



Frame projection

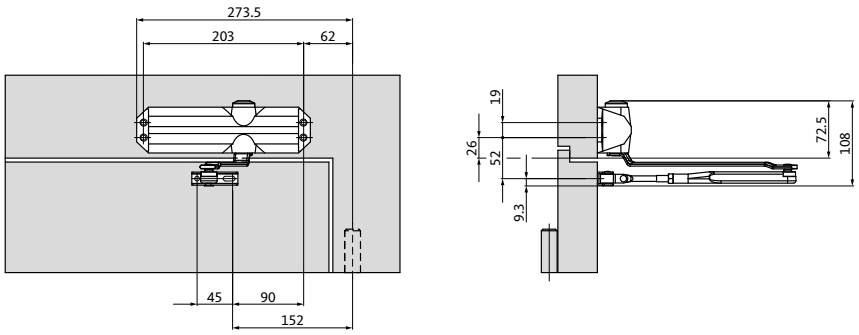


Door overlap

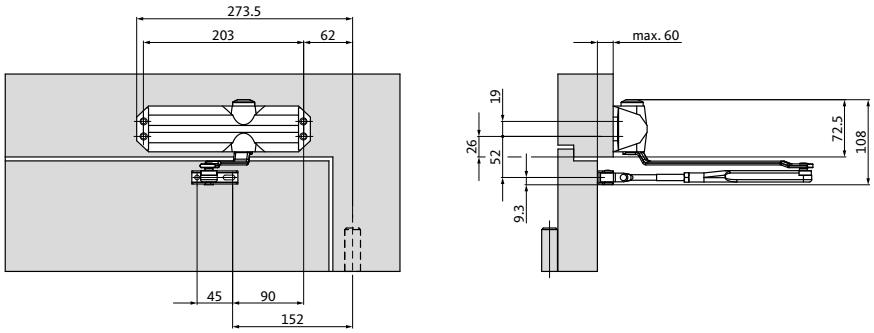
OTS 140 overhead door closer – Installation situations

Flush and rebated doors – side opposite to hinges

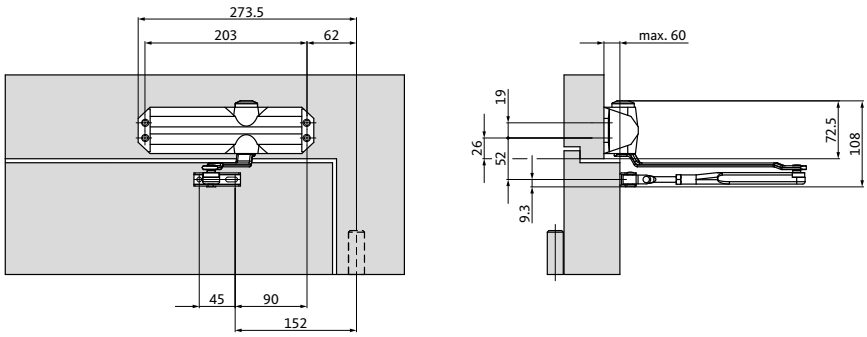
Transom installation on side opposite to hinges



Flush profile



Frame projection



Door overlap

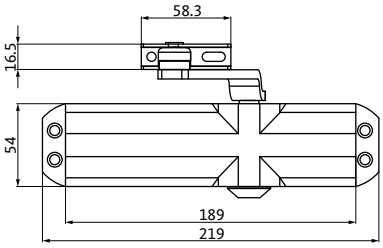
OTS 134 overhead door closer

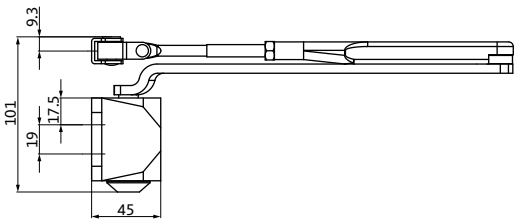
Closing force size EN 2/3/4 – for door leaf widths up to 1100 mm



Product characteristics

- Door closer for 1-leaf doors with door leaf widths up to 1100 mm
- Tested and certified in accordance with EN 1154
- Closing forces 2/3/4 - adjusted by shifting the closer body and turning the linkage pivot bracket
- Valve functions which can be steplessly adjusted from the front:
  – Closing speed
  – Latching speed
- Thermomatic valves ensure a uniform closing speed in the event of temperature fluctuations
- Security valves in the closer protect against overloading
- Max. door opening and closing angle 180° [1][3]
- Controlled closing from every opening angle





Classification code in accordance with EN 1154						
OTS 134	3	8	2 4	1	1	4

OTS 134 overhead door closer

Designation	Description	Finish	Order number
OTS 134 overhead door closer	with standard arm	silver	K-19733-00-0-1
		black (RAL 9005)	K-19733-00-0-6
		white (RAL 9016)	K-19733-00-0-7

Accessories

Designation	Finish	Order number
Angular bracket for parallel arm assembly	silver	K-17709-00-0-1
	white (RAL 9016)	K-17709-00-0-7

Application ranges

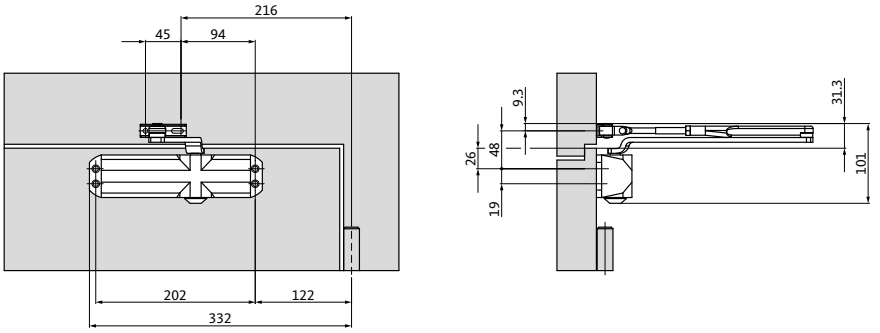
- 1-leaf fire and smoke protection doors
- 1-leaf swing doors
- Door leaf widths up to 1100 mm
- DIN left and DIN right-handed
- Standard installation on hinge-side
- Transom installation on side opposite to hinges [2]
- Parallel arm assembly [4]

[1] Standard installation on hinge-side.
[2] Opening angle dependent on door conditions.
[3] Only up to 120° with closing force size EN 4.
[4] Only in combination with angular bracket K-17709.

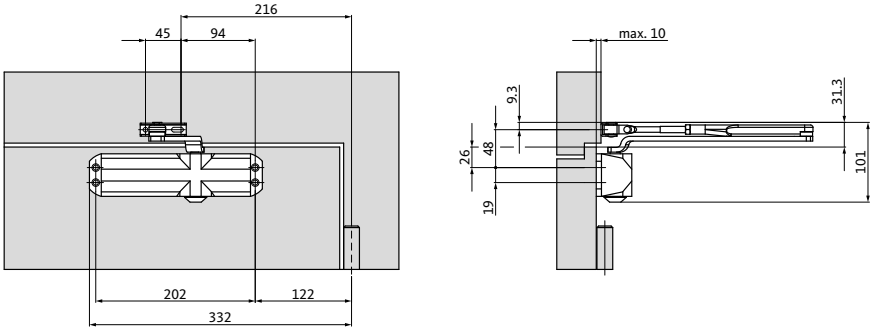
OTS 134 overhead door closer – Installation situations

Flush and rebated doors – hinge-side

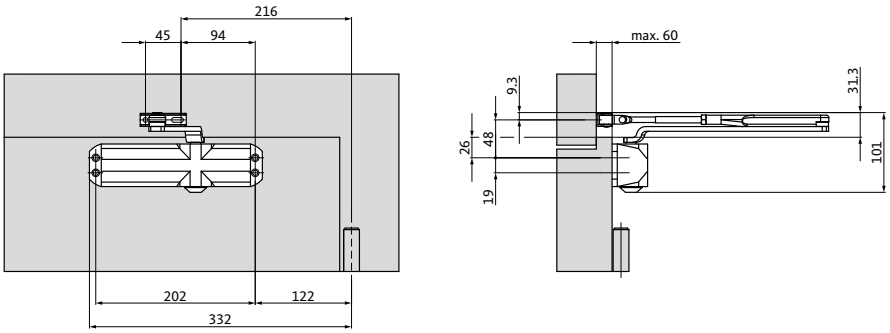
Standard installation on hinge-side



Flush profile



Frame projection

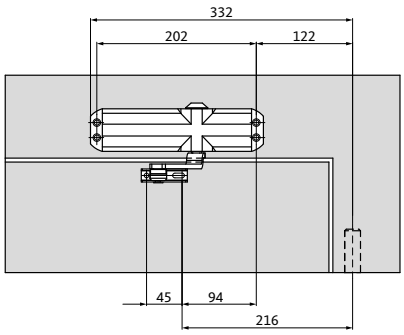


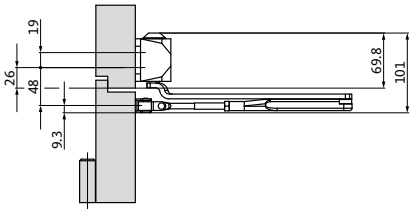
Door overlap

OTS 134 overhead door closer – Installation situations

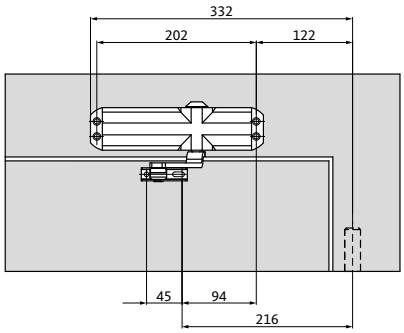
Flush and rebated doors – side opposite to hinges

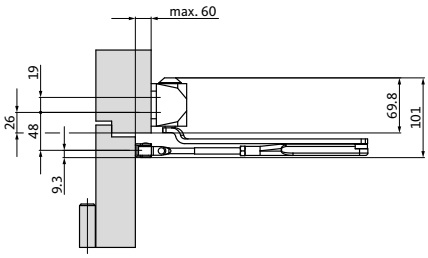
Transom installation on side opposite to hinges



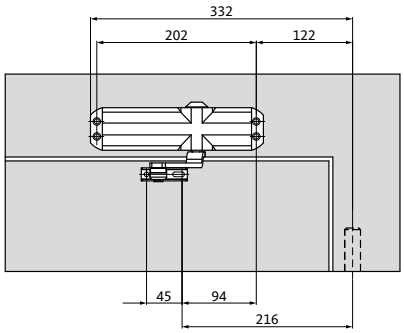


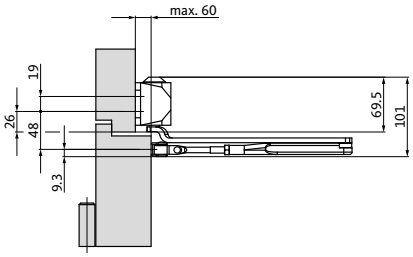
Flush profile





Frame projection



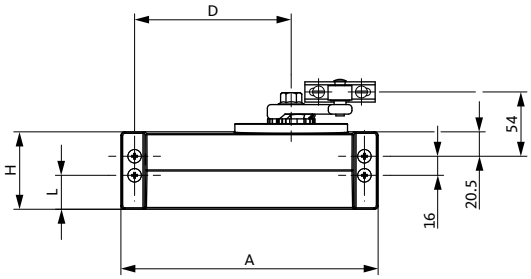


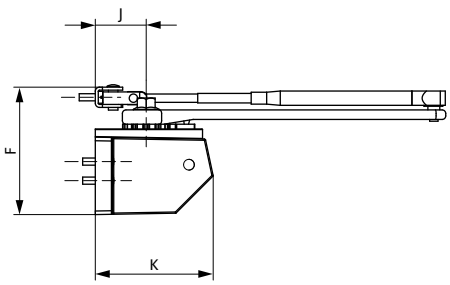
Door overlap

OTS 81 crank closer

Closing force sizes 2-5 – for door leaf widths up to 1280 mm







Product characteristics

- Retro door closer with crank drive for 1-leaf doors with door leaf widths up to 1280 mm
- Tested and certified in accordance with DIN 18263-1
- Closing force sizes 2-5 [1]
- Infinitely-adjustable temperature-independent closing speed
- The latching speed can be adjusted via the scissor-action arm
- High degree of efficiency
- Low installation height of the bearing plate
- Max. door opening angle 90 ° or with extended scissor-action arm 180° [2]
- Controlled closing from a door opening angle of 45°
- Optional with hold-open arm

Dimensions with reference to closing force size

Closing force size according to DIN 18263-1	Dimensions [mm]						
	A	D	F	H	J	K	L
2/3	184.0	112.5	95.0	53.0	39.0	86.0	11.5
4	184.0	112.5	95.0	53.0	39.0	86.0	16.5
5	216.0	134.0	107.0	65.0	43.5	99.5	28.5

OTS 81 crank closer – 2-5 (= door leaf widths up to 1280 mm)

Designation	Description	Size	Finish*	Order number
OTS 81 crank closer	with standard arm DIN left	2	silver	B 8121 0000
		3	silver	B 8131 0000
		4	silver	B 8141 0000
		5	silver	B 8151 0000
	with standard arm DIN right	2	silver	B 8122 0000
		3	silver	B 8132 0000
		4	silver	B 8142 0000
		5	silver	B 8152 0000
	with hold-open arm DIN left [3]	2	silver	B 8121 0200
		3	silver	B 8131 0200
		4	silver	B 8141 0200
		5	silver	B 8151 0200
	with hold-open arm DIN right [3]	2	silver	B 8122 0200
		3	silver	B 8132 0200
		4	silver	B 8142 0200
		5	silver	B 8152 0200

* dark bronze and white (RAL 9016) surfaces are available on request

Application ranges

- 1-leaf fire and smoke protection doors
- 1-leaf swing doors
- Door leaf widths up to 1280 mm
- Standard installation on hinge-side
- Transom installation on side opposite to hinges [4]

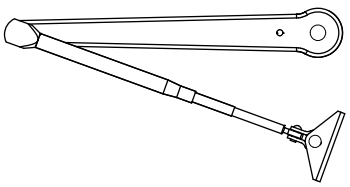
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[1] According to DIN 18263, part 1.
[2] Note: closing force reduction.
[3] Not approved for fire and smoke protection doors.
[4] Opening angle dependent on door conditions.

OTS 81 crank closer – Accessories

Standard arm, extended scissor-action arm, hold-open arm

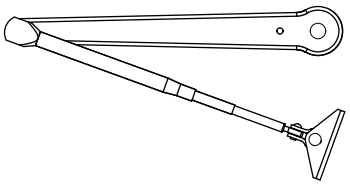


Standard arm

Versions/Order numbers

Designation	Size	Finish*	Order number
Standard arm	2 to 4	silver	B 8083 0020
	5	silver	B 8085 0020

* dark bronze and white (RAL 9016) surfaces are available on request

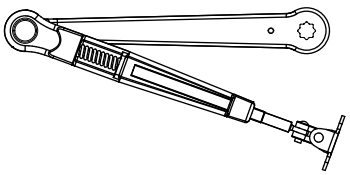


Extended scissor-action arm

Versions/Order numbers

Designation	Size	Finish*	Order number
Extended scissor-action arm	2 to 4	silver	B 8183 0000
	5	silver	B 8185 0000

* dark bronze and white (RAL 9016) surfaces are available on request



Hold-open arm [1]

Versions/Order numbers

Designation	Size	Finish*	Order number
Hold-open arm	2 to 3	silver	B 8183 0200
	4	silver	B 8184 0200
	5	silver	B 8185 0200

* dark bronze and white (RAL 9016) surfaces are available on request

[1] Not approved for fire and smoke protection doors.

OTS 81 crank closer – Accessories

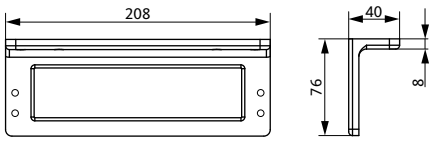
Replacement spring, angular lintel bracket, flat bracket



Replacement spring

Versions/Order numbers

Designation	Size	Order number
Replacement spring	2	B 8110 0002
	3	B 8110 0003
	4	B 8110 0004
	5	B 8110 0005

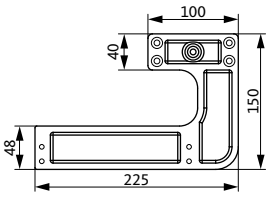


Angular lintel bracket

Versions/Order numbers

Designation	Size	Finish*	Order number
Angular lintel bracket	2 to 4	silver	B 8170 0000
	5	silver	B 8170 0100

* dark bronze and white (RAL 9016) surfaces are available on request



Flat bracket

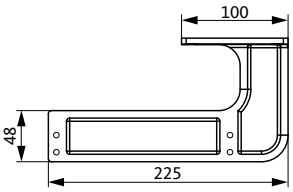
Versions/Order numbers

Designation	Size	Finish*	Order number
Flat bracket	2 to 4	silver	B 8171 0000
	5	silver	B 8171 0100

* dark bronze and white (RAL 9016) surfaces are available on request

OTS 81 crank closer – Accessories

Lintel bracket, angular bracket, bearing plate

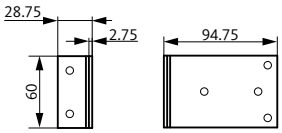


Lintel bracket

Versions/Order numbers

Designation	Size	Finish*	Order number
Lintel bracket	2 to 4	silver	B 8172 0000

* dark bronze and white (RAL 9016) surfaces are available on request

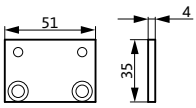


Angular bracket for parallel arm assembly

Versions/Order numbers

Designation	Size	Finish*	Order number
Angular bracket for parallel arm assembly	2 to 5	silver	B 8174 0000

* dark bronze and white (RAL 9016) surfaces are available on request



Bearing plate

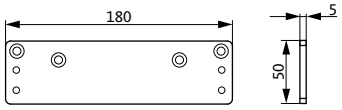
Versions/Order numbers

Designation	Size	Finish*	Order number
Bearing plate	2 to 5	silver	B 8177 0000

* dark bronze and white (RAL 9016) surfaces are available on request

OTS 81 crank closer – Accessories

Mounting plates

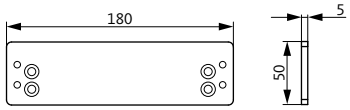


Mounting plate

Versions/Order numbers

Designation	Size	Finish*	Order number
Mounting plate	2 to 4	silver	B 8173 0000

* dark bronze and white (RAL 9016) surfaces are available on request



Mounting plate

Versions/Order numbers

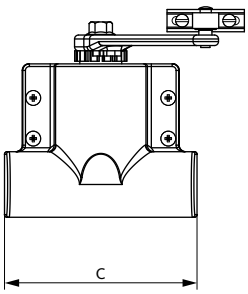
Designation	Size	Finish*	Order number
Mounting plate	3 to 4	silver	B 8178 0000
	5	silver	B 8178 0100

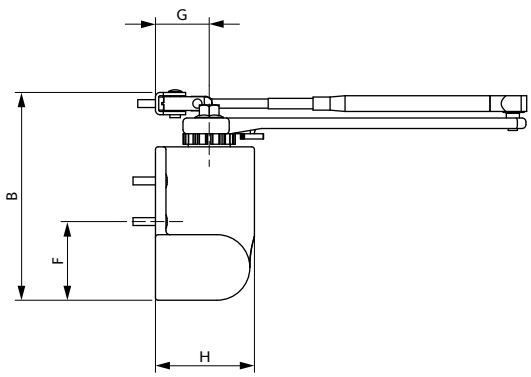
* dark bronze and white (RAL 9016) surfaces are available on request

OTS 80 crank closer

Closing force sizes 2-6 – for door leaf widths up to 1600 mm







Product characteristics

- Retro door closer with crank drive for 1-leaf doors with door leaf widths up to 1600 mm
- Closing force sizes 2-6 [1]
- Steplessly adjustable, temperature-independent closing speed
- The latching speed can be adjusted via the scissor-action arm
- High degree of efficiency
- Low installation height of the bearing plate
- Max. door opening angle 90°
  – for door opening angles >110° the door closer must be moved in the direction of the door hinge [2]
- Controlled closing from a door opening angle of 45°
- With optional hold-open arm, hold-open range at any desired angle up to 150°

Dimensions with reference to closing force size

Closing force size according to DIN 18263-1	Dimensions [mm]				
	W	C	F	G	H
2	157.0	147.0	62.0	186.0	186.0
3	161.0	147.0	62.0	175.0	175.0
4	161.0	147.0	62.0	76.0	76.0
5	186.0	175.0	45.0	52.0	52.0
6	186.0	175.0	88.5	101.0	101.0

OTS 80 crank closer – 2-6 (=door leaf widths up to 1600 mm)

Designation	Description	Size	Finish*	Order number
OTS 80 crank closer	with standard arm DIN left	2	silver	B 8021 0000
		3	silver	B 8031 0000
		4	silver	B 8041 0000
		5	silver	B 8051 0000
		6	silver	B 8061 0000
	with standard arm DIN right	2	silver	B 8022 0000
		3	silver	B 8032 0000
		4	silver	B 8042 0000
		5	silver	B 8052 0000
		6	silver	B 8062 0000
	with hold-open arm DIN left [3]	2	silver	B 8021 0200
		3	silver	B 8031 0200
		4	silver	B 8041 0200
		5	silver	B 8051 0200
		6	silver	B 8061 0200
	with hold-open arm DIN right [3]	2	silver	B 8022 0200
		3	silver	B 8032 0200
		4	silver	B 8042 0200
		5	silver	B 8052 0200
		6	silver	B 8062 0200

* dark bronze surface available on request

Application ranges

- 1-leaf swing doors
- Door leaf widths up to 1600 mm
- Standard installation on hinge-side
- Transom installation on side opposite to hinges [4]

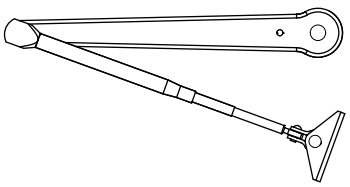
Distributed by

BKS GmbH
PO Box 10 02 10
42502 Velbert
Phone +49 20 51 2 01-0
www.g-u.com

[1] According to DIN 18263, part 1.
[2] Note: closing force reduction.
[3] Not approved for fire and smoke protection doors.
[4] Opening angle dependent on door conditions.

OTS 80 crank closer – Accessories

Standard arm, replacement spring



Standard arm

Versions/Order numbers

Designation	Size	Finish*	Order number
Standard arm	2	silver	B 8082 0020
	3+4	silver	B 8083 0020
	5	silver	B 8085 0020
	6	silver	B 8086 0020

* dark bronze surface available on request



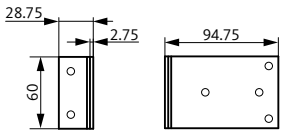
Replacement spring

Versions/Order numbers

Designation	Size	Order number
Replacement spring	2	B 8010 0002
	3	B 8010 0003
	4	B 8010 0004
	5	B 8010 0005
	6	B 8010 0006

OTS 80 crank closer – Accessories

Angular bracket, bearing plate

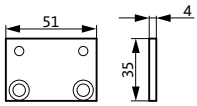


Angular bracket for parallel arm assembly

Versions/Order numbers

Designation	Size	Finish*	Order number
Angular bracket for parallel arm assembly	2 to 6	silver	B 8174 0000

* dark bronze surface available on request



Bearing plate

Versions/Order numbers

Designation	Size	Finish*	Order number
Bearing plate	2 to 6	silver	B 8177 0000

* dark bronze surface available on request

Concealed door closers



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Concealed door closers

VTS 73x series

For door leaf widths up to 1400 mm / total door leaf widths up to 2800 mm

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VTS 73x series – Sets for 2-leaf doors from page 178
VTS 73x-series – Accessories from page 182
VTS 73x series – Mounting and installation situations from page 184

VTS 634

For door leaf widths up to 1100 mm

VTS 634 concealed door closer from page 200
VTS 634 concealed door closer – Accessories from page 202
VTS 634 concealed door closer – Installation situations from page 203

Rebate door closers

For door leaf widths up to 1000 mm

20 rebate door closer from page 206
24 rebate door closer from page 206

Floor springs

For door leaf widths up to 950 mm

UTS 840 floor spring from page 208

Modular system of the VTS 73x series

The modular system at a glance

Concealed door closers highlight the clear lines of the architecture, as they are mounted invisibly in the door leaf and thus the door closer and slide rail remain concealed when the door is closed.

The VTS 73x series covers all applications with its innovative modular system. No special components or separate accessories are required. The components are combined and adjusted individually to meet the specific requirement. This not only makes planning, but also installation and retrofitting, easier.

Modular components



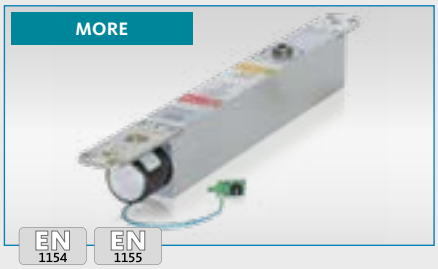
VTS 736 – EN 3-6 door closer body

- Heart curve technology allows the door to be opened and accessed very easily and comfortably



VTS 735 – EN 3-5 door closer body

- Heart curve technology allows the door to be opened and accessed very easily and comfortably



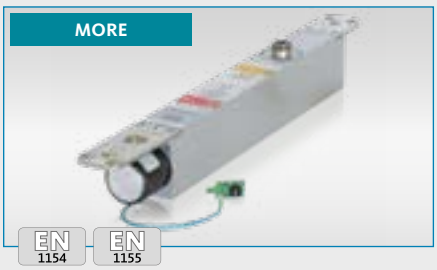
VTS 735 FL – EN 5 door closer body

- With electrically integrated free-swing function



VTS 735/4 – EN 3-5 closer body

- With 4 mm longer axle for use of a fire protection cover



VTS 735/4 FL – EN 5 closer body

- With electrically integrated free-swing function
- With 4 mm longer axle for use of a fire protection cover



Fire protection cover

- In combination with the VTS 735/4 and VTS 735/4 FL door closer bodies



GS VTS 73x 20x12 standard slide rail

- Straightforward, fast and can be flexibly extended to include further components



FM-VTS 73x 20x12 mechanical hold-open device

- Steplessly adjustable from approx. 80°

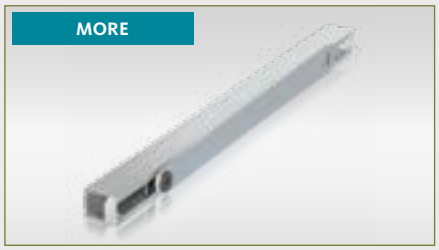


ÖB-VTS 73x 20x12 opening restrictor

- Steplessly adjustable limit angle up to 120°

The VTS 73x series for single- and double-leaf doors thus combines attractive design with easy opening in accordance with the standards DIN SPEC 1104 and DIN 18040 for barrier-free construction. And, of course, the VTS 73x series can also be used with fire and smoke protection doors. The door closer thus meets the highest expectations in terms of passage convenience, function and design.

MORE



GS VTS 73x 26x32 functional slide rail

- Straightforward, fast and can be flexibly extended to include further components

MORE



FM-VTS 73x 26x32 mechanical hold-open device

- Steplessly adjustable from approx. 80°

MORE

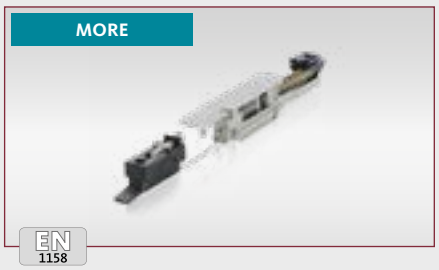


EN 1155

FE-VTS 73x 26x32 electromechanical hold-open device

- Steplessly adjustable hold-open angle from 80°–120°

MORE



EN 1158

SRI-VTS 73x 26x32 door-leaf coordinator

- SRI waiting position with load-limiting device
- Optional: with integrated microswitch

MORE



Opening restrictor ÖB-VTS 73x 26x32

- Steplessly adjustable limit angle up to 120°

MORE



RSM-H smoke switch module

- For supplying electricity to, and controlling all components of, a hold-open system
- Tested and approved by DIBt*

*German Institute of Building Engineering

Modular system of the VTS 73x series

Single-leaf solutions

Order poster for download

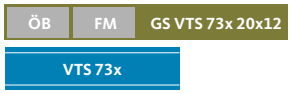
(WP06033-04-2-5)



- VTS 73x door closer
- GS VTS 73x 20x12 standard slide rail

GS VTS 73x 20x12 door closer set with slide rail

VTS 736	**K-20166-00-0-1**
VTS 735	**K-18758-00-0-1**
VTS 735/4	**K-19455-00-0-1**
VTS 735 FL	**K-19273-00-0-1**
VTS 735/4 FL	**K-19866-00-0-1**

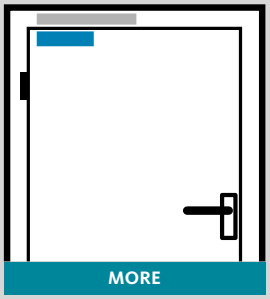


Option:

FM-VTS 73x 20x12	K-18981-00-0-1
ÖB-VTS 73x 20x12	K-19201-00-0-1

Accessories:

AP-VTS 73x	K-18558-00-0-1
MZ GS VTS 73x 20x12	K-18766-00-0-1



- VTS 73x door closer

VTS 73x door closer

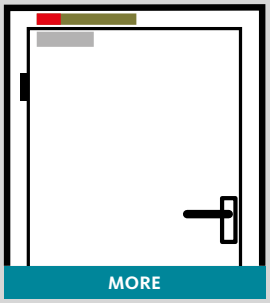
(to be ordered separately for each slide rail set)

VTS 736	**K-20076-00-0-1**
VTS 735	**K-18756-00-0-1**
VTS 735/4	**K-19453-00-0-1**
VTS 735 FL	**K-19272-00-0-1**
VTS 735/4 FL	**K-19865-00-0-1**



Accessories:

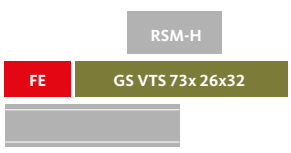
AP-VTS 73x	K-18558-00-0-1



- GS VTS 73x 26x32 functional slide rail
- FE-VTS 73x 26x32 electromechanical hold-open device

GS FE-VTS 73x 26x32 slide rail set

GS FE-VTS 73x 26x32	**K-18761-00-0-1**



Option:

RSM-H	K-19058-10-0-*

Accessories:

MZ GS VTS 73x 26x32	K-19034-00-0-1

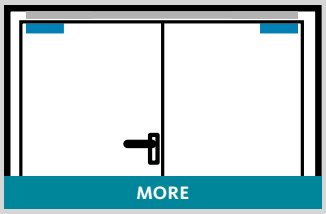
*available in finishes -1, -6, -7, -8, -9

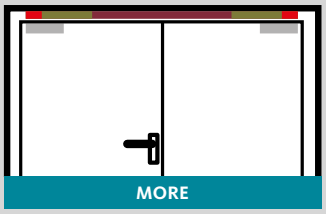
Modular system of the VTS 73x series

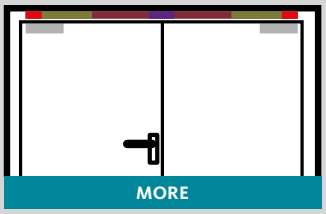
2-leaf solutions

Order poster for download

(WP06033-04-2-5)







Set consisting of:

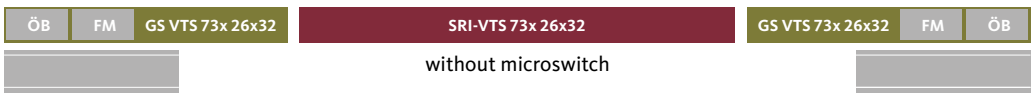
VTS 73x door closer (to be ordered separately for each slide rail set)



- VTS 73x door closer

VTS 736	**2 x K-20076-00-0-1**	**Accessories:**	
VTS 735	**2 x K-18756-00-0-1**	AP-VTS 73x	2 x K-18558-00-0-1
VTS 735/4	**2 x K-19453-00-0-1**		
VTS 735 FL	**2 x K-19272-00-0-1**		
VTS 735/4 FL	**2 x K-19865-00-0-1**		

GS SRI-VTS 73x 26x32 slide rail set

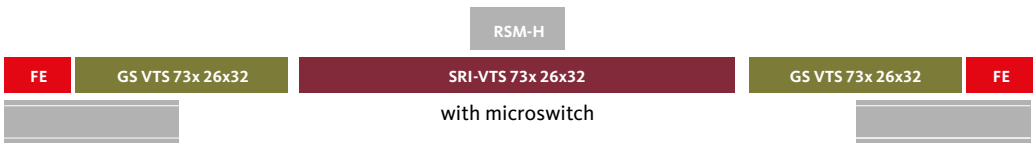


- 2 x GS VTS 73x 26x32 functional slide rail
- 1 x SRI-VTS 73x 26x32 door-leaf coordinator

GS SRI-VTS 73x 26x32 **K-18762-00-0-1**

Option:		**Accessories:**	
FM-VTS 73x 26x32	2 x K-18787-00-0-6	MZ GS VTS 73x 26x32	2 x K-19034-00-0-1
ÖB-VTS 73x 26x32	2 x K-19202-00-0-6		

GS FE SRI-VTS 73x 26x32 slide rail set



- 2 x GS VTS 73x 26x32 functional slide rail
- 2 x FE-VTS 73x 26x32 electromechanical hold-open device
- 1 x SRI-VTS 73x 26x32 door-leaf coordinator

GS FE-SRI-VTS 73x 26x32 **K-18763-00-0-1**

Option:		**Accessories:**	
RSM-H	K-19058-10-0-*	MZ GS VTS 73x 26x32	2 x K-19034-00-0-1

*available in finishes -1, -6, -7, -8, -9

VTS 73x series – Individual components

VTS 736 door closer body



TO THE MODULAR SYSTEM

VTS 736 door closer body

Product characteristics

- Tested and certified in accordance with EN 1154
- **EN 3-6 for door leaf widths up to 1400 mm**
- Heart curve technology allows the door to be opened and accessed very easily and comfortably
- Suitable for barrier-free construction in compliance with DIN SPEC 1104 and DIN 18040
- Dimensions (L x H x D): 257 x 54 x 40 mm

Adjustment functions

- Closing speed
- Latching speed
- Steplessly adjustable closing force sizes EN 3-6
- The valve functions can also be adjusted at any time when the equipment is installed
- Security valves in the closer protect against overloading

Order information

Versions/order numbers

Designation	Order number
VTS 736 door closer body (without slide rail)	K-20076-00-0-1

Classification code in accordance with EN 1154						
VTS 736	4	8	3/6	1	1	4

VTS 73x series – Individual components

VTS 735 door closer body



TO THE MODULAR SYSTEM

VTS 735 door closer body

Product characteristics

- Tested and certified in accordance with EN 1154
- **EN 3–5 for door leaf widths up to 1250 mm**
- Heart curve technology allows the door to be opened and accessed very easily and comfortably
- Suitable for barrier-free construction in compliance with DIN SPEC 1104 and DIN 18040
- Compact dimensions (L x H x D): 240 x 45 x 32 mm
- Type VTS 735/4: with 4 mm longer axle for use with fire protection cover

Adjustment functions

- Closing speed
- Latching speed
- Backcheck
- Colour-coded control valves ensure clarity of overview during adjustment
- Easy and safe closing force adjustment with just a few turns of the adjustment screw (nine revolutions from minimum to maximum value)
- Steplessly adjustable closing force sizes EN 3-5
- The valve functions can also be adjusted at any time when the equipment is installed
- Security valves in the closer protect against overloading

Order information

Versions/order numbers

Designation	Order number
VTS 735 door closer body (without slide rail)	K-18756-00-0-1

Versions/order numbers

Designation	Order number
VTS 735/4 door closer body (without slide rail)	K-19453-00-0-1
Fire protection cover	K-19462-00-0-0

EN 1154 | DIN SPEC 1104 | DIN 18040 | F | CE

Classification code in accordance with EN 1154						
VTS 735	4	8	3/5	1	1	4

VTS 73x series – Individual components

VTS 735 FL door closer body



TO THE MODULAR SYSTEM

VTS 735 FL door closer body

Product characteristics

- Tested and certified in accordance with EN 1154 and EN 1155
- Tested and approved by DIBt (German Institute of Building Engineering)
- With electrically integrated free-swing function, can be activated from an opening angle of 0°
  – Operating voltage: 24 V DC
  – Power consumption: 2.4 W
  – Duty ratio: 100 %
- Compact dimensions (L x H x D): 271 x 45 x 32 mm
- Type VTS 735/4 FL: with 4 mm longer axle for use with fire protection cover

Adjustment functions:

- Closing speed
- Latching speed
- Colour-coded control valves ensure clarity of overview during adjustment
- Fixed EN 5 closing force size
- All settings can also be made at any time when the equipment is installed

Order information

Versions/order numbers

Designation	Order number
VTS 735 FL door closer body (without slide rail)	K-19272-00-0-1

Versions/order numbers

Designation	Order number
VTS 735/4 FL door closer body (without slide rail)	K-19865-00-0-1
Fire protection cover	K-19462-00-0-0

Classification code in accordance with EN 1154						
VTS 735 FL	4	8	5	1	1	4

VTS 73x series – Individual components

GS VTS 73x 20x12 standard slide rail



TO THE MODULAR SYSTEM

GS VTS 73x 20x12 standard slide rail

Product characteristics

- Compact dimensions (L x T x D): 440 x 20 x 12 mm
- Retrofittable and can be integrated in the slide rail as an option
  - FM-VTS 73x 20x12 mechanical hold-open device [1]
  - ÖB-VTS 73x 20x12 opening restrictor

Order information

Versions/order numbers

Designation	Finish	Part number
GS VTS 73x 20x12 standard slide rail	Silver	K-18759-00-0-1

[1] Not approved for fire and smoke protection doors.

VTS 73x series – Individual components

FM-VTS 73x 20x12 mechanical hold-open device



TO THE MODULAR SYSTEM

FM-VTS 73x 20x12 mechanical hold-open device

Product characteristics

- Device that allows a door to be held open temporarily at a chosen angle until it is closed manually
- Easy and simple installation, integrated in the GS VTS 73x 20x12 standard slide rail
- Retrofittable
- With integrated opening restriction
- Steplessly adjustable from approx. 80°

Order information

Versions/order numbers

Designation	Order number
FM-VTS 73x 20x12 mechanical hold-open device [1]	K-18981-00-0-1

[1] Not approved for fire and smoke protection doors.

VTS 73x series – Individual components

ÖB-VTS 73x 20x12 opening restrictor



TO THE MODULAR SYSTEM

ÖB-VTS 73x 20x12 opening restrictor

Product characteristics

- Device that limits the opening angle of the door at a defined position. Its purpose is to prevent swing doors being thrown open uncontrollably, as this could otherwise damage the slide rail, door, door frame, hinge, wall and other components
- Can be integrated in the GS VTS 73x 20x12 standard slide rail
- Retrofittable
- Steplessly adjustable limit angle up to 120°
- **Attention:** in many applications, this opening restrictor is not a substitute for the doorstop!

Order information

Versions/order numbers

Designation	Part number
ÖB-VTS 73x 20x12 opening restrictor	K-19201-00-0-1

VTS 73x series – Individual components

GS VTS 73x 26x32 functional slide rail



TO THE MODULAR SYSTEM

GS VTS 73x 26x32 functional slide rail

Product characteristics

- Dimensions (L x T x D):
  460 x 26 x 32 mm
- Functional slide rail for
  - FM-VTS 73x 26x32
    mechanical hold-open device [1]
  - FE-VTS 73x 26x32
    electromechanical hold-open device
  - SRI-VTS 73x 26x32
    integrated door leaf coordination
  - ÖB-VTS 73x 26x32
    opening restrictor

Order information

Versions/order numbers

Designation	Finish	Part number
GS VTS 73x 26x32 functional slide rail	silver	K-18760-00-0-1

[1] Not approved for fire and smoke protection doors.

VTS 73x series – Individual components

FM-VTS 73x 26x32 mechanical hold-open device



TO THE MODULAR SYSTEM

FM-VTS 73x 26x32 mechanical hold-open device

Product characteristics

- Device that allows a door to be held open temporarily at a chosen angle until it is closed manually
- Easy and simple installation, integrated in the GS VTS 73x 26x32 functional slide rail
- Retrofittable
- With integrated opening restriction
- Steplessly adjustable from approx. 80°

Order information

Versions/order numbers

Designation	Order number
FM-VTS 73x 26x32 mechanical hold-open device [1]	K-18787-00-0-6

[1] Not approved for fire and smoke protection doors.

VTS 73x series – Individual components

FE-VTS 73x 26x32 electromechanical hold-open device



TO THE MODULAR SYSTEM

FE-VTS 73x 26x32 electromechanical hold-open device

Product characteristics

- Tested and approved in accordance with EN 1155 (up to EN 5)
- Device that allows a door to be held open at a chosen angle until it is closed electrically
- Easy and simple installation in the GS VTS 73x 26x32 functional slide rail
- Retrofittable
- Hold-open angle steplessly adjustable from 80° – 120° [1][2]
- Steplessly adjustable tripping force
- Fully overridable, if required the door can therefore be opened up to the maximum opening angle
- **Technical data**
  - Operating voltage: 24 V DC
  - Power consumption: 1.9 W
  - Duty ratio: 100 %

Order information

Versions/order numbers

Designation	Order number
FE-VTS 73x 26x32 electromechanical hold-open device	K-18786-00-0-1

[1] Depending on the door situation.
[2] Position doorstop for max. door opening angle.

VTS 73x series – Individual components

SRI-VTS 73x 26x32 door-leaf coordinator



TO THE MODULAR SYSTEM

SRI-VTS 73x 26x32 door-leaf coordinator

Product characteristics

- Used at double-leaf doors to ensure the doors always close in the correct sequence
- Fast straightforward installation, laterally on the functional slide rail (GS VTS 73x 26x32)
  – no subsequent adjustment necessary
- Retrofittable
- SRI waiting position with load-limiting device prevents damages in case of mishandling
- With fixed stable cable
- Also available with optional integrated microswitch, especially when using the electromechanical hold-open device This also makes it possible to trigger the hold-open device at the inactive leaf automatically when the active leaf is manually triggered

Order information

Versions/order numbers

Designation	Description	Order number
SRI-VTS 73x 26x32 door-leaf coordinator	without microswitch	K-18785-00-0-1
	with microswitch	K-19030-00-0-1

EN 1158

VTS 73x series – Individual components

ÖB-VTS 73x 26x32 opening restrictor



TO THE MODULAR SYSTEM

ÖB-VTS 73x 26x32 opening restrictor

Product characteristics

- Device that limits the opening angle of the door at a defined position. Its purpose is to prevent swing doors being thrown open uncontrollably, as this could damage the slide rail, door, door frame, hinge, wall and other components
- Can be integrated in the GS VTS 73x 26x32 functional slide rail
- Retrofittable
- Steplessly adjustable limit angle up to 120°
- **Attention:** in many applications, this opening restrictor is not a substitute for the doorstop!

Order information

Versions/order numbers

Designation	Part number
ÖB-VTS 73x 26x32 opening restrictor	K-19202-00-0-6

VTS 73x series – Individual components

RSM-H smoke switch module



TO THE MODULAR SYSTEM

RSM-H smoke switch module

Product characteristics

- Tested and approved by DIBt (German Institute of Building Engineering)
- For supplying electricity to all components of a hold-open system (for example, hold-open device, electromechanical hold-open magnet, fire detector, smoke triggering push-button and other elements)
- With integrated power supply and release mechanism
- With integrated smoke switch
- With LED status indication
  – Operation/Alarm
  – Interference
  – Soiling
- Cover in GU design, to match AD-OTS 73x cover
- Installation on the frame/lintel
- Installation height: 36 mm
- For technical data refer to page 218

Order information

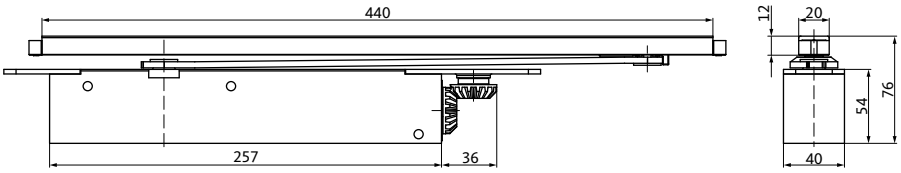
Versions/order numbers

Designation	Finish	Part number
RSM-H smoke switch module (incl. power supply unit and smoke switch ORS 142 W-GU)	silver	K-19058-10-0-1
	black (RAL 9005)	K-19058-10-0-6
	white (RAL 9016)	K-19058-10-0-7
	stainless steel colour	K-19058-10-0-8P
	special colour	K-19058-10-0-9

VTS 736 door closer set

with GS VTS 73x 20x12 standard slide rail





Product characteristics

- Door closer for 1-leaf doors with door leaf widths up to 1400 mm concealed in door leaf
- Tested in accordance with EN 1154

Set consisting of:

Individual components Details of the individual modular components		
VTS 736 door closer body	Page 158	MORE
GS VTS 73x 20x12 standard slide rail	Page 161	MORE

ÖB* FM* GS VTS 73x 20x12

VTS 736

*Optional accessories

VTS 736 door closer set – EN 3-6 (= door leaf widths up to 1400 mm)
VTS 736 door closer with slide rail

Set consisting of	Order number
VTS 736 door closer GS VTS 73x 20x12 standard slide rail	K-20166-00-0-1

Accessories (optional)

Designation		Order number
FM-VTS 73x 20x12 mechanical hold-open device [1]		K-18981-00-0-1
ÖB-VTS 73x 20x12 opening restrictor [2]		K-19201-00-0-1
AP-VTS 73x fixing plate		K-18558-00-0-1
AV-VTS 73x axle extension	Height 6 mm	K-18767-06-0-6
	Height 8 mm	K-18767-08-0-6
MZ GS VTS 73x 20x12 fixing accessories		K-18766-00-0-1

Application ranges

- 1-leaf fire and smoke protection doors
- 1-leaf swing doors
- Min. door leaf width 600 mm
- Max. door leaf width 1400 mm
- DIN left and DIN right-handed
- Installation of the closer body in the door leaf, installation of the slide rail in the upper door frame
- Max. door opening and closing angle up to 120° [3]
- Door leaf thicknesses from 50 mm
- Rebate clearance heights up to max. 22 mm
- Additional proof of suitability is required with fire protection doors

[1] Not approved for fire and smoke protection doors.
[2] Not required if a mechanical hold-open device (FM) is already installed.
[3] Depending on the door situation. Position door stop for max. door opening angle.

EN 1154 DIN SPEC 1104 DIN 18040 F CE

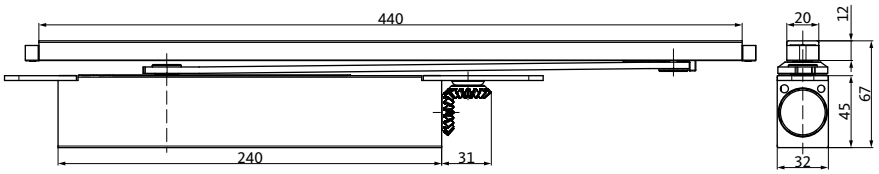
VTS 735, VTS 735/4 door closer set

with GS VTS 73x 20x12 standard slide rail



Product characteristics

- Door closer for 1-leaf doors with door leaf widths up to 1250 mm concealed in door leaf
- Tested in accordance with EN 1154



Set consisting of:

Individual components Details of the individual modular components		
VTS 735 door closer body	Page 159	MORE
VTS 735/4 door closer body	Page 159	MORE
GS VTS 73x 20x12 standard slide rail	Page 161	MORE

ÖB* FM* GS VTS 73x 20x12

VTS 735

*Optional accessories

VTS 735 door closer set – EN 3–5 (= door leaf widths up to 1250 mm)
VTS 735 door closer with slide rail

Set consisting of	Order number
VTS 735 door closer GS VTS 73x 20x12 standard slide rail	K-18758-00-0-1

VTS 735/4 door closer set – EN 3–5 (= door leaf widths up to 1250 mm)
VTS 735/4 door closer with slide rail

Set consisting of	Order number
VTS 735/4 door closer [4] GS VTS 73x 20x12 standard slide rail	K-19455-00-0-1

Accessories (optional)

Designation		Order number
FM-VTS 73x 20x12 mechanical hold-open device [1]		K-18981-00-0-1
ÖB-VTS 73x 20x12 opening restrictor [2]		K-19201-00-0-1
AP-VTS 73x fixing plate		K-18558-00-0-1
AV-VTS 73x axle extension	Height 6 mm	K-18767-06-0-6
	Height 8 mm	K-18767-08-0-6
MZ GS VTS 73x 20x12 fixing accessories		K-18766-00-0-1

Application ranges

- 1-leaf fire and smoke protection doors
- 1-leaf swing doors
- Min. door leaf width 600 mm
- Max. door leaf width 1250 mm
- DIN left and DIN right-handed
- Installation of the closer body in the door leaf, installation of the slide rail in the upper door frame
- Max. door opening and closing angle up to 120° [3]
- Door leaf thicknesses from 40 mm
- Rebate clearance heights up to max. 22 mm
- Additional proof of suitability is required with fire protection doors

[1] Not approved for fire and smoke protection doors.
[2] Not required if a mechanical hold-open device (FM) is already installed.
[3] Depending on the door situation. Position door stop for max. door opening angle.
[4] Only in combination with fire protection cover K-19462-00-0-0. Please order separately.

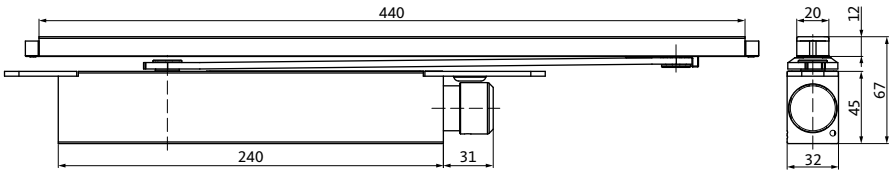
EN 1154 DIN SPEC 1104 DIN 18040 F CE

VTS 735 FL, VTS 735/4 FL door closer set

Hold-open system for 1-leaf fire rated doors with free-swing function



Ideal for barrier-free project solutions



The VTS 735 FL ensures barrier-free effortless passage through fire protection doors. The integrated electrical free-swing function can be activated from an opening angle of 0° and allows the door to move freely as if no door closer at all were fitted. Safe and reliable door locking is still ensured in the event of a fire. This makes VTS 735 FL door closers perfect for use on fire protection doors in kindergartens, schools, hospitals and residential homes for the elderly – standard-compliant for barrier-free construction in accordance with DIN SPEC 1104 and DIN 18040.

Product characteristics

- Door closer for 1-leaf doors with door leaf widths up to 1250 mm concealed in door leaf
- Tested and certified in accordance with EN 1154 and EN 1155
- Tested and approved by DIBt (German Institute of Building Engineering)
- Optional: opening restriction which can be integrated in the slide rail and is retrofittable

Set consisting of:

Individual components Details of the individual modular components		
VTS 735 FL door closer body	Page 160	MORE
VTS 735/4 FL door closer body	Page 160	MORE
GS VTS 73x 20x12 standard slide rail	Page 161	MORE

ÖB* GS VTS 73x 20x12

VTS 735 FL

*Optional accessories

VTS 735 FL door closer set – EN 5 (= door leaf widths up to 1250 mm)
VTS 735 FL door closer with slide rail

Set consisting of	Order number
VTS 735 FL door closer GS VTS 73x 20x12 standard slide rail	K-19273-00-0-1

VTS 735/4 FL door closer set – EN 5 (= door leaf widths up to 1250 mm)
VTS 735/4 FL door closer with slide rail

Set consisting of	Order number
VTS 735/4 FL door closer [2] GS VTS 73x 20x12 standard slide rail	K-19866-00-0-1

Accessories (optional)

Designation		Part number
ÖB-VTS 73x 20x12 opening restrictor		K-19201-00-0-1
AP-VTS 73x fixing plate		K-18558-00-0-1
AV-VTS 73x axle extension	Height 6 mm	K-18767-06-0-6
	Height 8 mm	K-18767-08-0-6
MZ GS VTS 73x 20x12 fixing accessories		K-18766-00-0-1

Note: accessories for hold-open systems are listed on pages 212–231.

Note: you can find matching cable links on page 242.

Application ranges

- 1-leaf fire and smoke protection doors
- 1-leaf swing doors
- Min. door leaf width 600 mm
- Max. door leaf width 1250 mm
- DIN left and DIN right-handed
- Installation of the closer body in the door leaf, installation of the slide rail in the upper door frame
- Max. door opening and closing angle up to 120° [1]
- Door leaf thicknesses from 40 mm
- Rebate clearance heights up to max. 22 mm
- Additional proof of suitability is required with fire protection doors

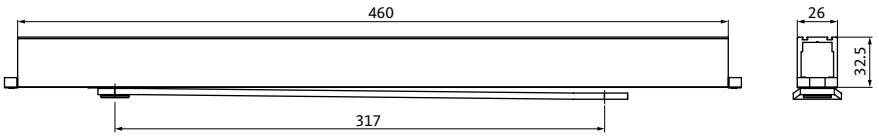
[1] Depending on the door situation. Position door stop for max. door opening angle.
[2] Only in combination with fire protection cover K-19462-00-0-0. Please order separately.

EN 1154 EN 1155 DIN SPEC 1104 DIN 18040 F CE

GS FE-VTS 73x 26x32 slide rail set

with FE-VTS 73x 26x32 electromechanical hold-open device





Product characteristics

- Solution for 1-leaf doors with door leaf widths up to 1400 mm
- Tested in accordance with EN 1155
- Tested and approved by DIBt (German Institute of Building Engineering)

FE-VTS 73x 26x32 electromechanical hold-open device

- Device that is integrated and pre-mounted In the slide rail and allows a door to be held open at a chosen angle until it is closed electrically

Set consisting of:

Individual components Details of the individual modular components		
GS VTS 73x 26x32 functional slide rail	Page 164	MORE
FE-VTS 73x 26x32 electromechanical hold-open device	Page 166	MORE

Door closers of series VTS 73x

- Door closers in the VTS 73x series are **not included** in the scope of delivery of the slide rail set and **must be ordered separately**.
- For relevant order information and further product features refer to pages 158–160.



VTS 73x door closer to be ordered separately

*Optional accessories

GS FE-VTS 73x 26x32 slide rail set [1]

Functional slide rail and electromechanical hold-open device

Set consisting of	Order number
GS VTS 73x 26x32 functional slide rail FE-VTS 73x 26x32 electromechanical hold-open device	K-18761-00-0-1

Accessories (optional)

Designation	Finish	Part number
RSM-H smoke switch module (incl. power supply unit and smoke switch ORS 142 W-GU)	silver	K-19058-10-0-1
	black (RAL 9005)	K-19058-10-0-6
	white (RAL 9016)	K-19058-10-0-7
	stainless steel colour	K-19058-10-0-8P
	special colour	K-19058-10-0-9
MZ GS VTS 73x 26x32 fixing accessories	–	K-19034-00-0-1

Note: accessories for hold-open systems are listed on pages 212–231.

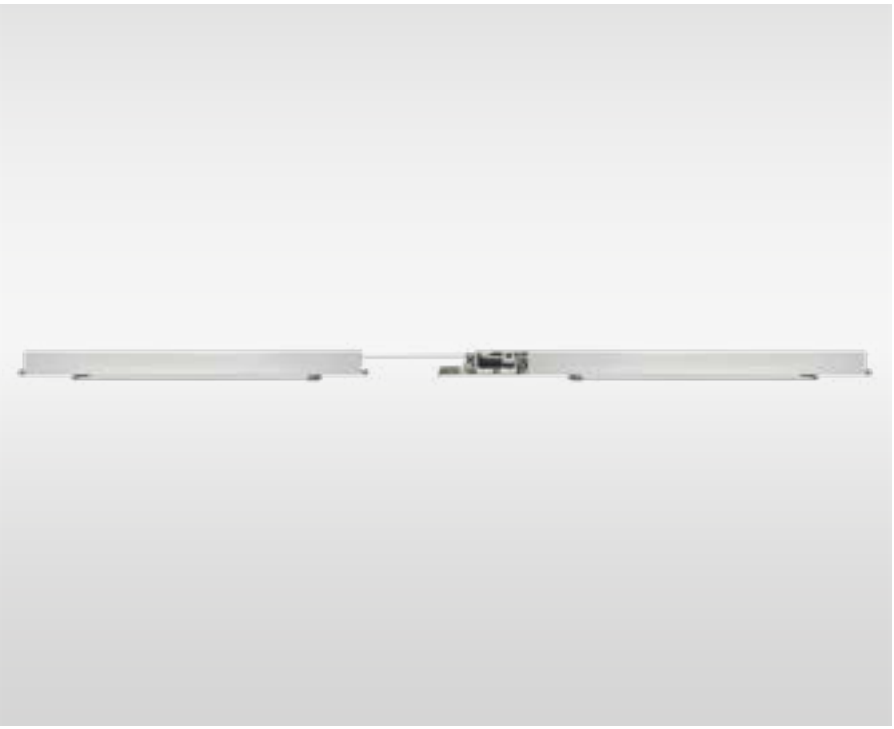
Application ranges

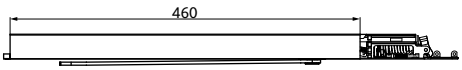
- 1-leaf fire and smoke protection doors
- 1-leaf swing doors
- Min. door leaf width 600 mm
- Max. door leaf width 1250 mm
- DIN left and DIN right-handed
- Installation of the slide rail in upper door frame
- Max. door opening and closing angle up to 120° [2]
- Rebate clearance heights up to max. 22 mm
- Additional proof of suitability is required with fire protection doors

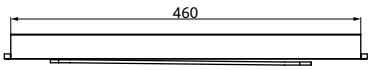
[1] Door closers must be ordered separately – for order information refer to pages 158–160.
[2] Depending on the door situation. Position door stop for max. door opening angle.

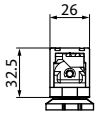
GS SRI-VTS 73x 26x32 slide rail set

with SRI-VTS 73x 26x32 door-leaf coordinator









Product characteristics

- Solution for 2-leaf doors with total door leaf widths up to 2800 mm
- Tested and certified in accordance with EN 1158

SRI-VTS 73x 26x32 door-leaf coordinator

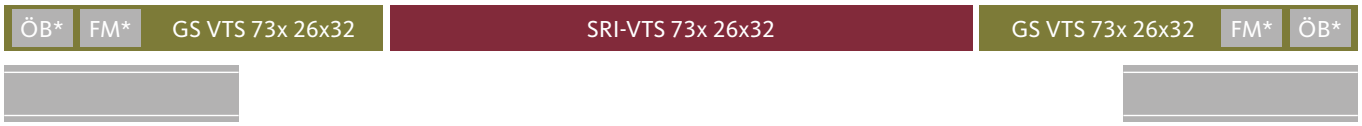
- Mechanical door-leaf coordinator (SRI) integrated into the slide rail to ensure doors are closed safely and in the correct sequence at all times

Set consisting of:

Individual components Details of the individual modular components		
GS VTS 73x 26x32 functional slide rail	Page 164	MORE
SRI-VTS 73x 26x32 door-leaf coordinator	Page 167	MORE

Door closers of series VTS 73x

- Door closers in the VTS 73x series are **not included** in the scope of delivery of the slide rail set and **must be ordered separately**.
- When used in combination with the slide rail set, two VTS 73x door closers must always be ordered.
- For relevant order information and further product features refer to pages 158–160.



VTS 73x door closer to be ordered separately

VTS 73x door closer to be ordered separately

*Optional accessories

GS SRI-VTS 73x 26x32 slide rail set [1]
Slide rails, door-leaf coordinators

Set consisting of	Part number
2 x GS VTS 73x 26x32 functional slide rail 1 x SRI-VTS 73x 26x32 door-leaf coordinator (without microswitch)	K-18762-00-0-1

Accessories (optional)

Designation	Order number
FM-VTS 73x 26x32 mechanical hold-open device [2]	K-18787-00-0-6
ÖB-VTS 73x 26x32 opening restriction [3]	K-19202-00-0-6
MZ GS VTS 73x 26x32 fixing accessories	K-19034-00-0-1

Application ranges

- 2-leaf fire and smoke protection doors
- 2-leaf swing doors
- Max. total door leaf widths:
  – 2800 mm (VTS 736)
  – 2500 mm (VTS 735/VTS 735 FL)
- Min. single-leaf width of inactive leaf: 600 mm [5]
- DIN left and DIN right-handed
- Installation of the slide rail in upper door frame
- Max. door opening and closing angle up to 120° [4]
- Rebate clearance heights up to max. 22 mm
- Additional proof of suitability is required with fire protection doors

SRI-VTS 73x door-leaf coordinator for use on 2-leaf full-panic doors in escape and rescue routes

A suitable carrier bar must always be used with 2-leaf full-panic doors installed in escape and rescue routes. This ensures that when the door is opened via the inactive leaf (in emergency situations), the active leaf is carried at least as far as the beginning of the action range of the (SRI-VTS 73x) door-leaf coordinator.

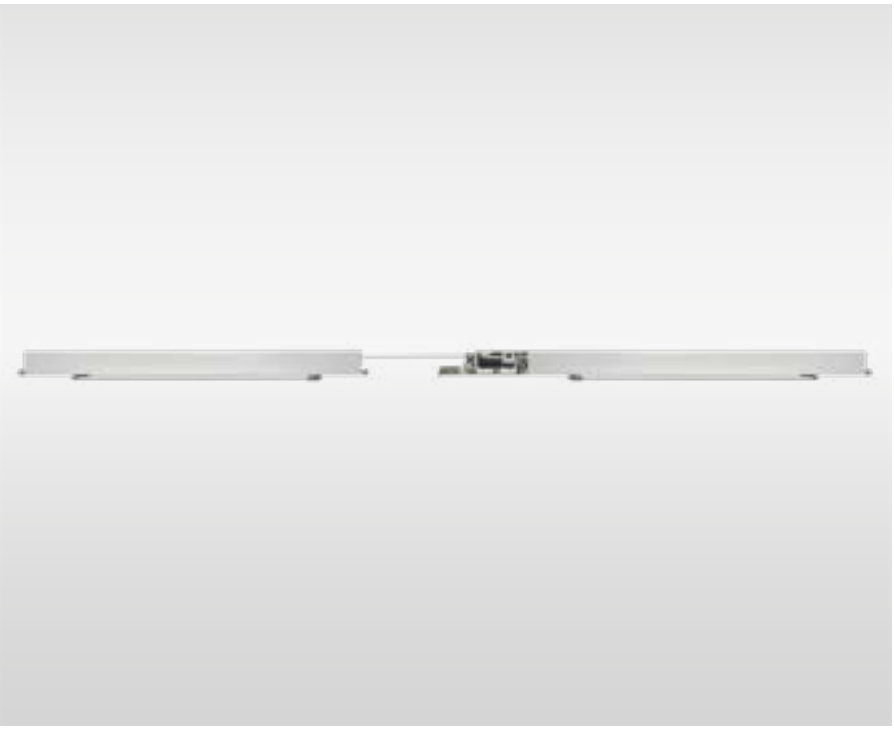
For the corresponding application diagram and additional information on the carrier bar, refer to pages 238–241.

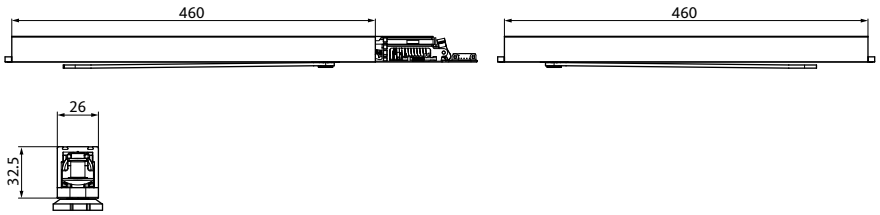
[1] Door closers must be ordered separately – for order information refer to pages 158–160.
[2] Not approved for fire and smoke protection doors.
[3] Not required if a mechanical hold-open device (FM) is already installed.
[4] Depending on the door situation. Position door stop for max. door opening angle.
[5] Depending on the position of the vertical rod.

EN 1158

GS FE SRI-VTS 73x 26x32 slide rail set

with SRI-VTS 73x 26x32 door-leaf coordinator and FE-VTS 73x 26x32 electromechanical hold-open device





Product characteristics

- Solution for 2-leaf doors with total door leaf widths up to 2800 mm
- Tested and certified in accordance with EN 1155 and EN 1158
- Tested and approved by DIBt according to the guidelines for hold-open systems

SRI-VTS 73x 26x32 door-leaf coordinator

- Mechanical door-leaf coordinator (SRI) integrated into the slide rail to ensure doors are closed safely and in the correct sequence at all times
- Microswitch in the active leaf supplied as standard: guarantees that the inactive leaf closes if the active leaf is manually unlatched from the hold-open position.

FE-VTS 73x 26x32 electromechanical hold-open device

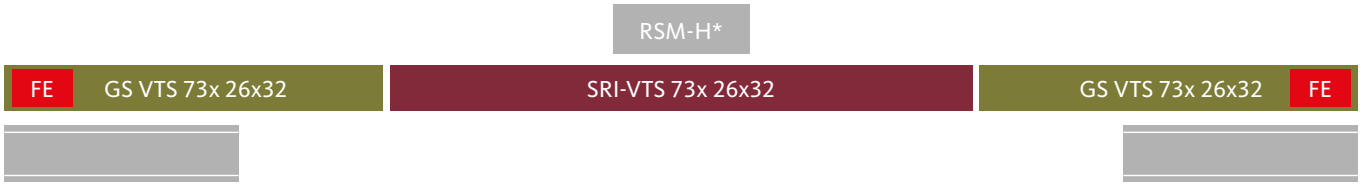
- Device that is integrated and pre-mounted In the slide rail and allows a door to be held open at a chosen angle until it is closed electrically
- The active leaf can be held open independently of the inactive leaf at any time

Set consisting of:

Individual components Details of the individual modular components		
GS VTS 73x 26x32 functional slide rail	Page 164	MORE
FE-VTS 73x 26x32 electromechanical hold-open device	Page 166	MORE
SRI-VTS 73x 26x32 door-leaf coordinator	Page 167	MORE

Door closers of series VTS 73x

- Door closers in the VTS 73x series are **not included** in the scope of delivery of the slide rail set and **must be ordered separately**.
- When used in combination with the slide rail set, two VTS 73x door closers must always be ordered.
- For relevant order information and further product features refer to pages 158–160.



VTS 73x door closer to be ordered separately

VTS 73x door closer to be ordered separately

*Optional accessories

GS FE SRI-VTS 73x 26x32 slide rail set [1]

Slide rails, electromechanical hold-open devices, door-leaf coordinator

Set consisting of	Part number
2 x GS VTS 73x 26x32 functional slide rail 2 x FE-VTS 73x 26x32 electromechanical hold-open device 1 x SRI-VTS 73x 26x32 door-leaf coordinator (with microswitch)	K-18763-00-0-1

Accessories (optional)

Designation	Finish	Part number
RSM-H smoke switch module (incl. power supply unit and smoke switch ORS 142 W-GU)	silver	K-19058-10-0-1
	black (RAL 9005)	K-19058-10-0-6
	white (RAL 9016)	K-19058-10-0-7
	stainless steel colour	K-19058-10-0-8P
	special colour	K-19058-10-0-9
MZ GS VTS 73x 26x32 fixing accessories	–	K-19034-00-0-1

Note: accessories for hold-open systems are listed on pages 212–231.

Application ranges

- 2-leaf fire and smoke protection doors
- 2-leaf swing doors
- Max. total door leaf widths:
  – 2800 mm (VTS 736)
  – 2500 mm (VTS 735/VTS 735 FL)
- Min. single-leaf width of inactive leaf: 600 mm [2]
- DIN left and DIN right-handed
- Installation of the slide rail in upper door frame
- Max. door opening and closing angle up to 120° [3]
- Rebate clearance heights up to max. 22 mm
- Additional proof of suitability is required with fire protection doors

SRI-VTS 73x door-leaf coordinator for use on 2-leaf full-panic doors in escape and rescue routes

A suitable carrier bar must always be used with 2-leaf full-panic doors installed in escape and rescue routes. This ensures that when the door is opened via the inactive leaf (in emergency situations), the active leaf is carried at least as far as the beginning of the action range of the (SRI-VTS 73x) door-leaf coordinator.

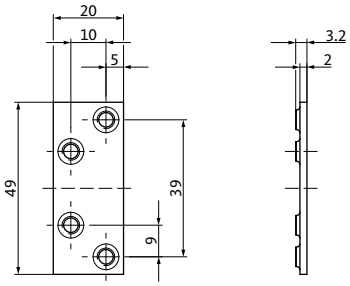
For the corresponding application diagram and additional information on the carrier bar, refer to pages 238–241.

[1] Door closers must be ordered separately – for order information refer to pages 158–160.
[2] Depending on the position of the vertical rod.
[3] Depending on the door situation. Position door stop for max. door opening angle.

EN 1155 EN 1158 F CE

VTS 73x-series – Accessories

Fixing plate, axle extension



AP-VTS 73x fixing plate

for fastening the closer body to aluminium profiles

Versions/Order numbers

Designation	Finish	Order number
AP-VTS 73x fixing plate	silver	K-18558-00-0-1

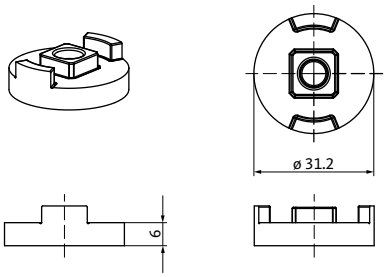


Illustration: 6 mm axle extension

AV-VTS 73x axle extension

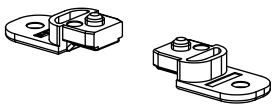
between closer axis and slide arm

Versions/Order numbers

Designation	Height [mm]	Order number
AV-VTS 73x axle extension	6	K-18767-06-0-6
	8	K-18767-08-0-6

VTS 73x-series – Accessories

Fixing accessories

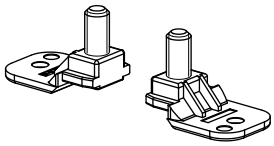


MZ GS VTS 73x 20x12 fixing accessories

for fastening the standard slide rail to aluminium profiles

Versions/Order numbers

Designation	Finish	Order number
MZ GS VTS 73x 20x12 fixing accessories	silver	K-18766-00-0-1



MZ GS VTS 73x 26x32 fixing accessories

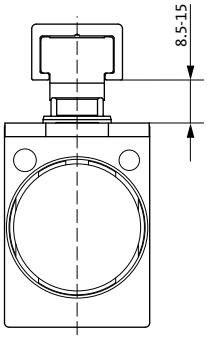
for fastening the function slide rail to aluminium profiles

Versions/Order numbers

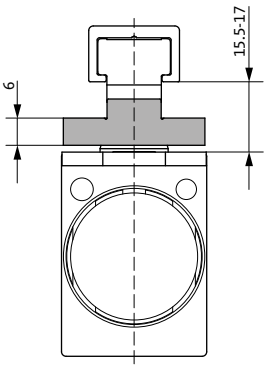
Designation	Finish	Order number
MZ GS VTS 73x 26x32 fixing accessories	silver	K-19034-00-0-1

VTS 736 – Mounting and installation situations

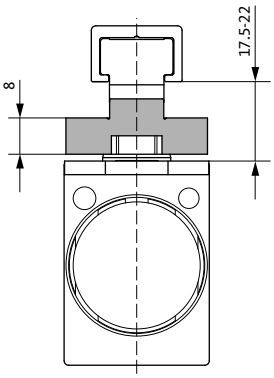
with GS VTS 73x 20x12 standard slide rail



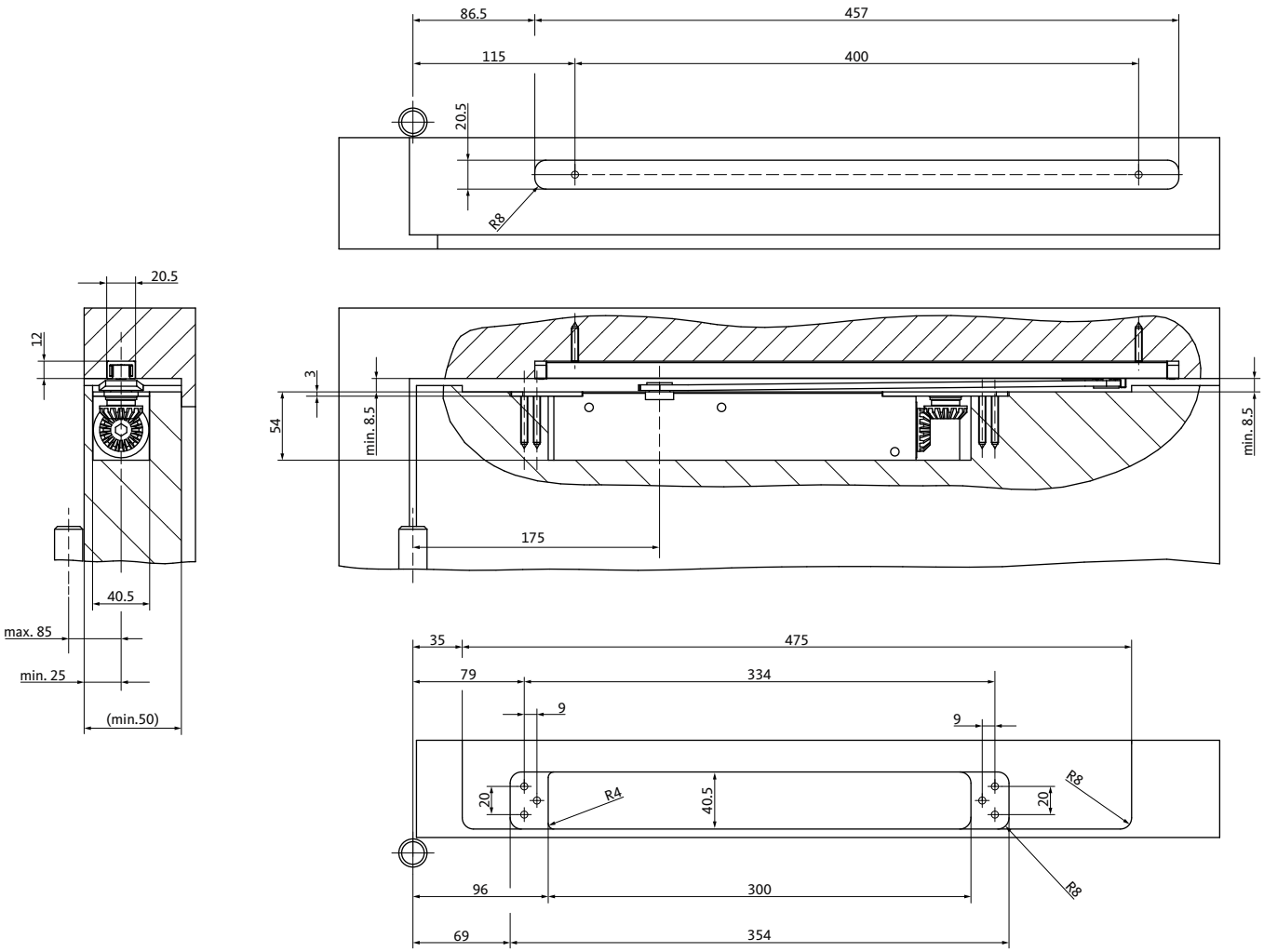
Installation without axle extension
for 8.5 – 15 mm rebate clearance



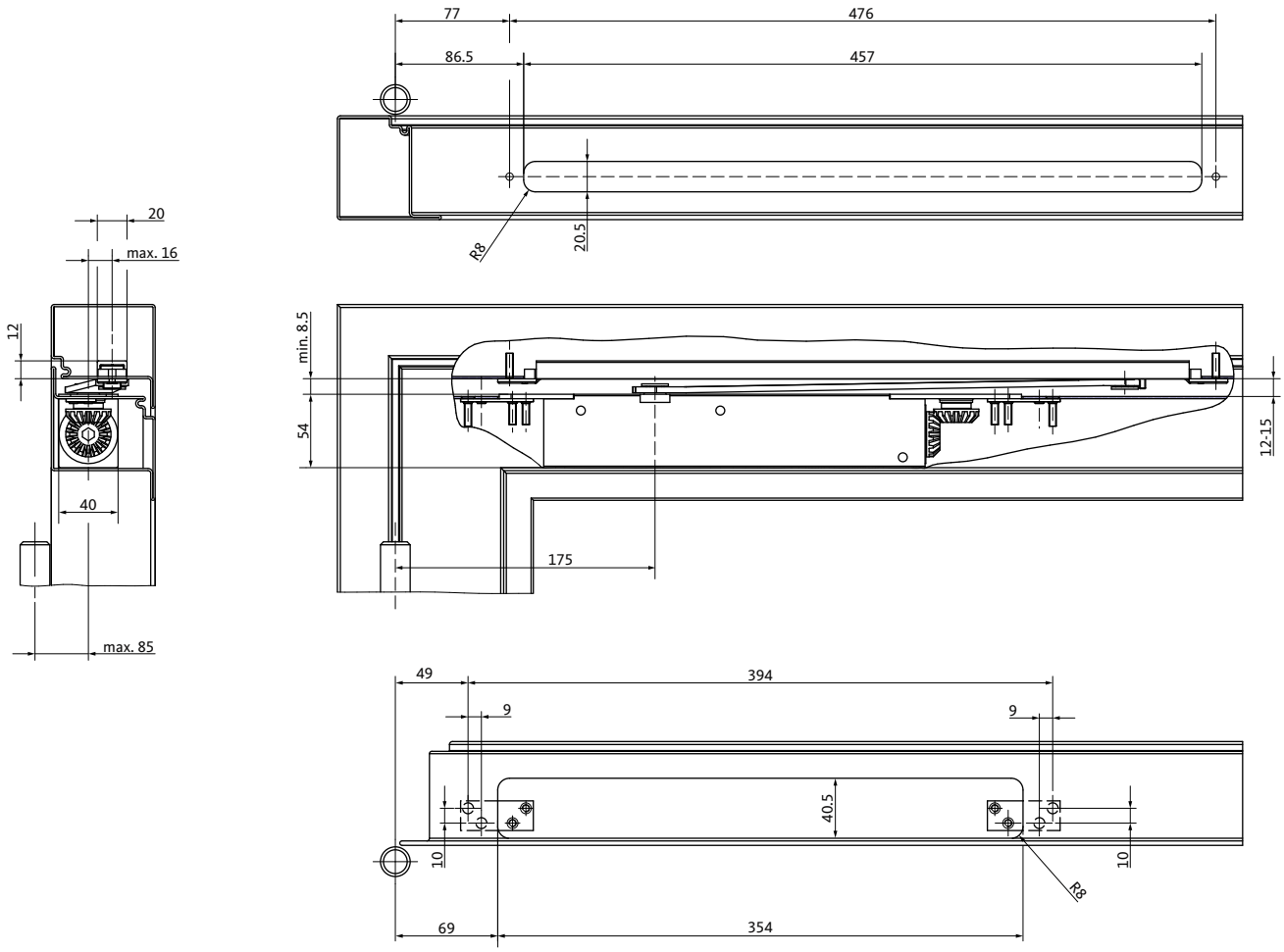
Installation with 6 mm axle extension
for 15.5 – 17 mm rebate clearance



Installation with 8 mm axle extension
for 17.5 – 22 mm rebate clearance



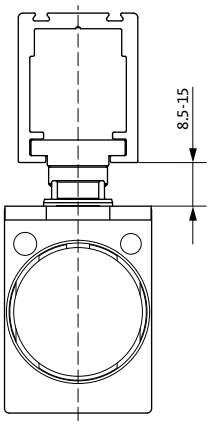
Installation situation: timber



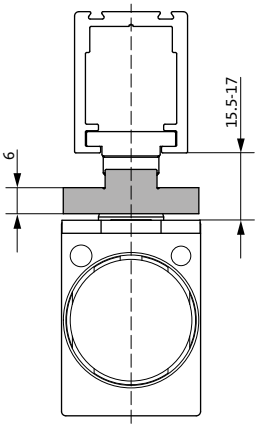
Installation situation: metal

VTS 736 – Mounting and installation situations

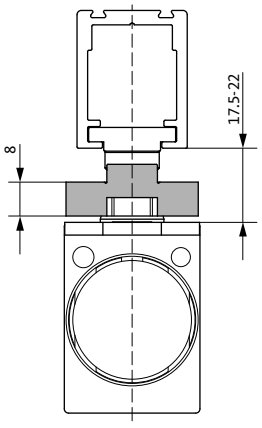
with GS VTS 73x 26x32 functional slide rail



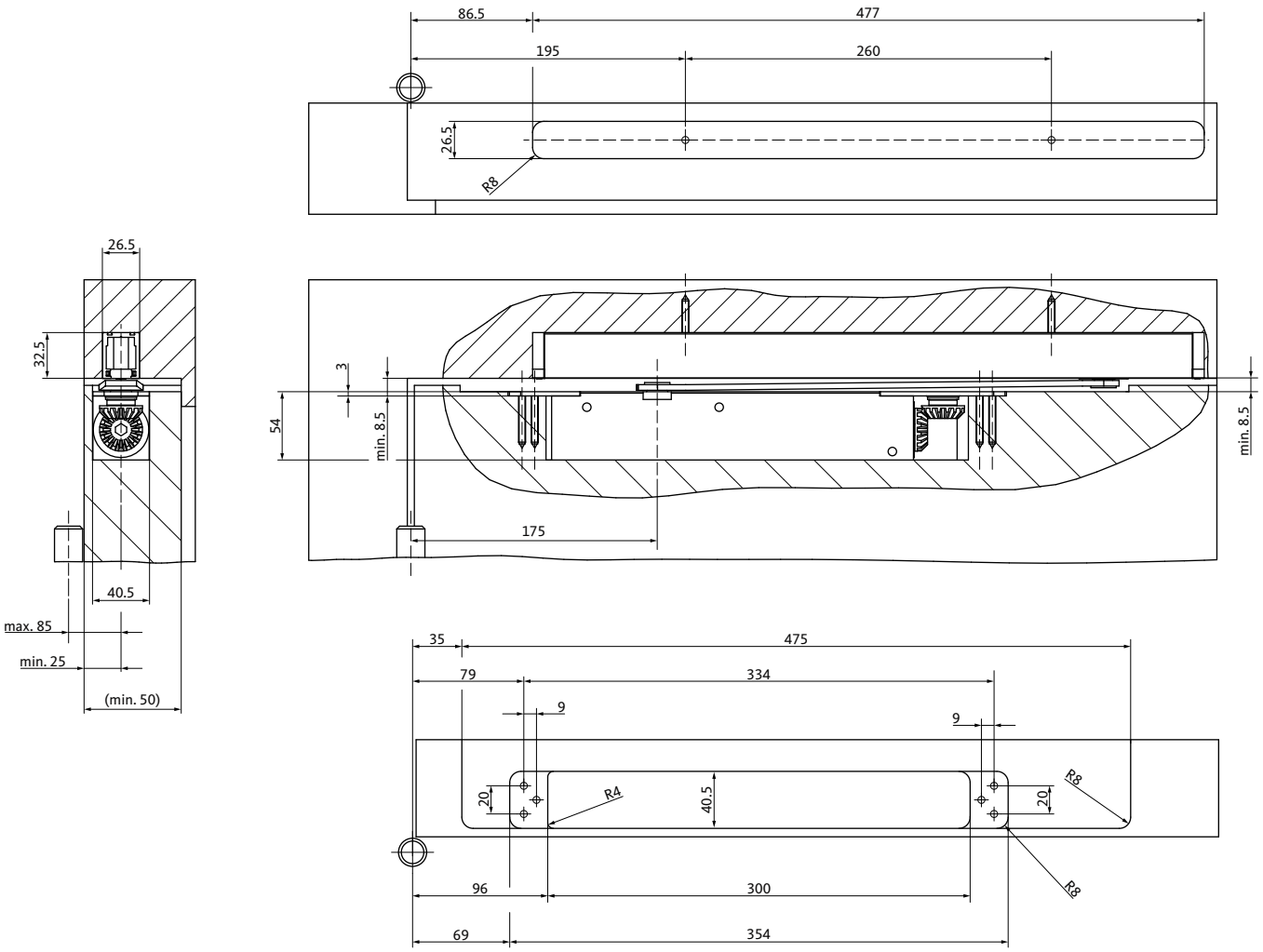
Installation without axle extension
for 8.5 – 15 mm rebate clearance



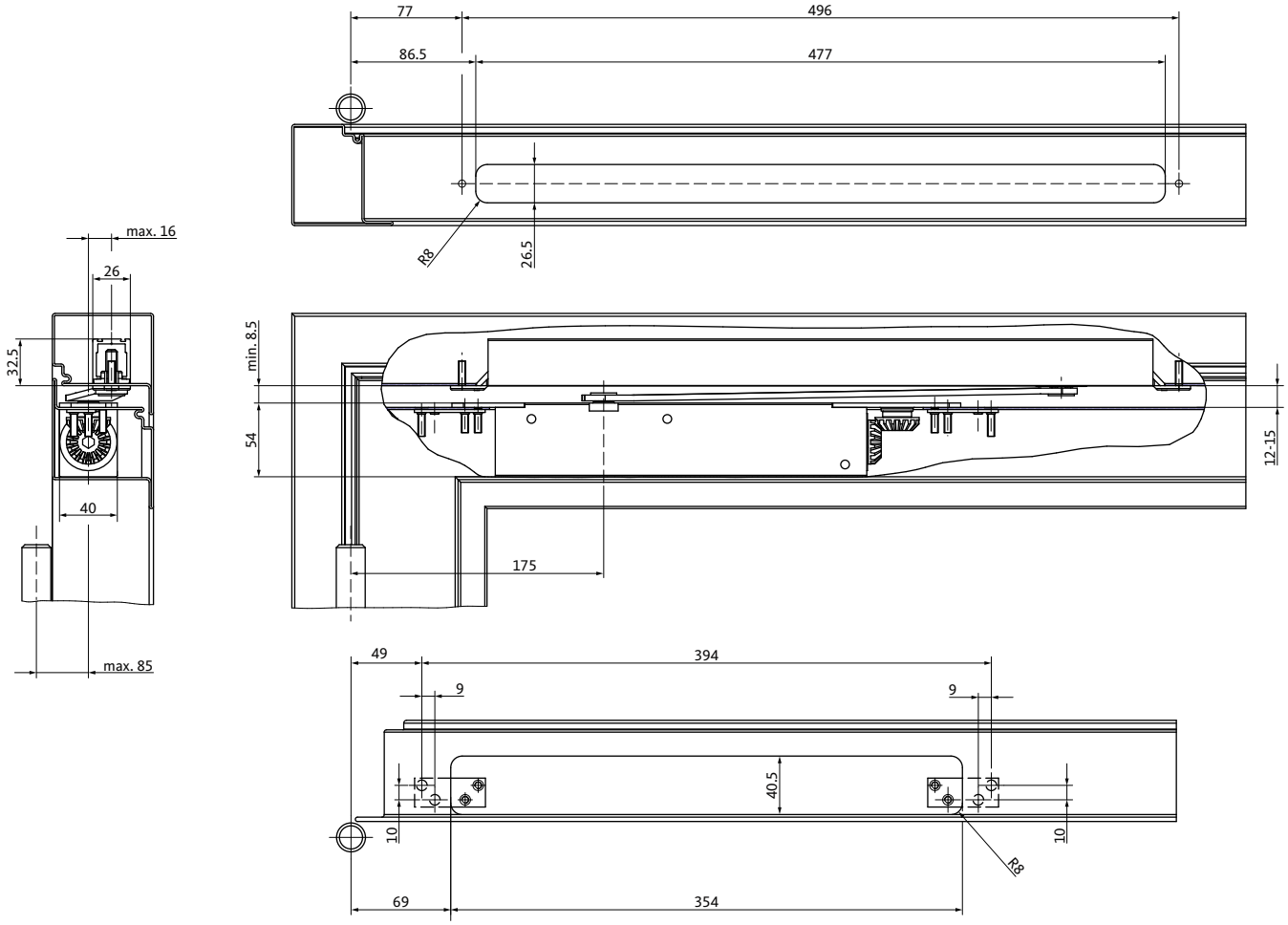
Installation with 6 mm axle extension
for 15.5 – 17 mm rebate clearance



Installation with 8 mm axle extension
for 17.5 – 22 mm rebate clearance



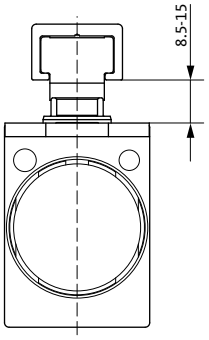
Installation situation: timber



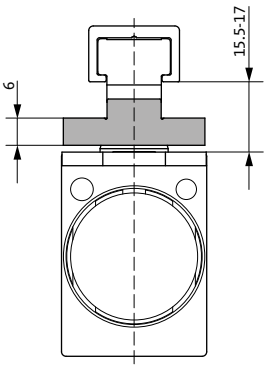
Installation situation: metal

VTS 735 – Mounting and installation situations

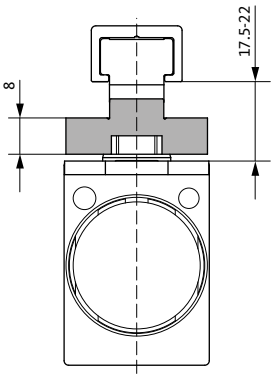
with GS VTS 73x 20x12 standard slide rail



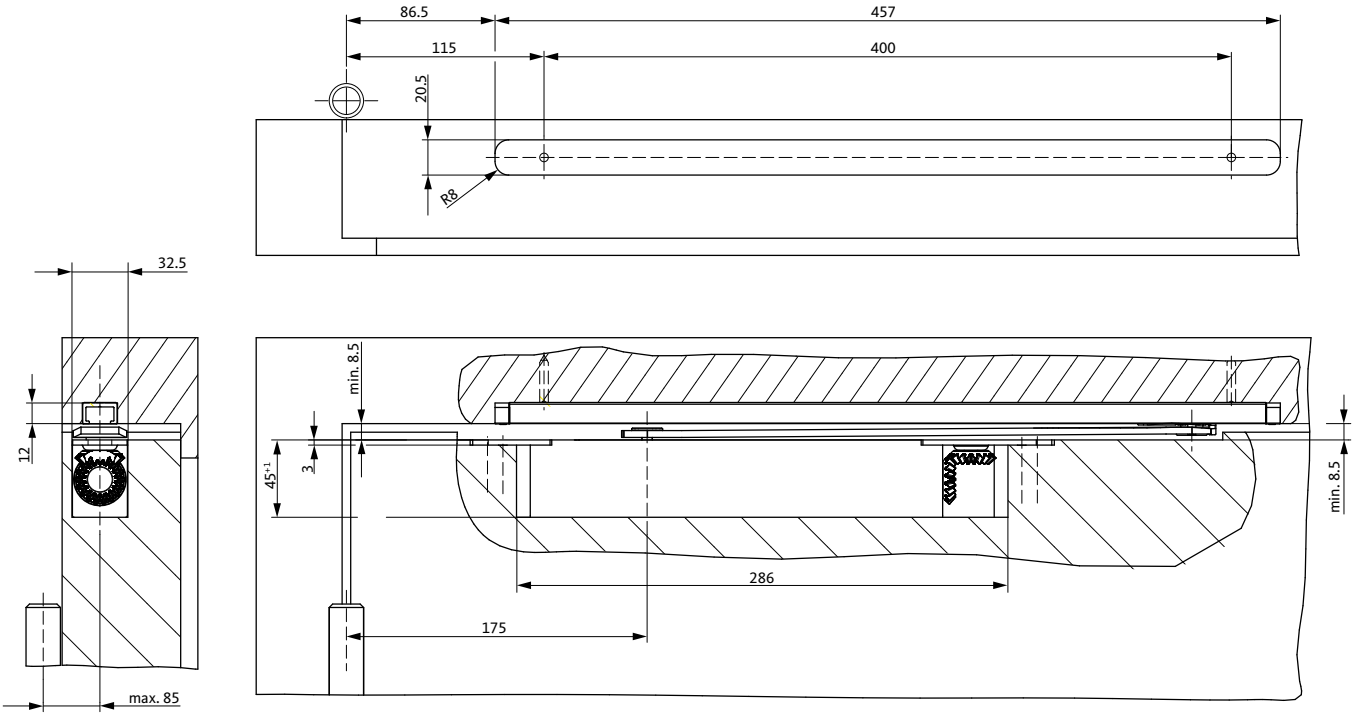
Installation without axle extension
for 8.5 – 15 mm rebate clearance



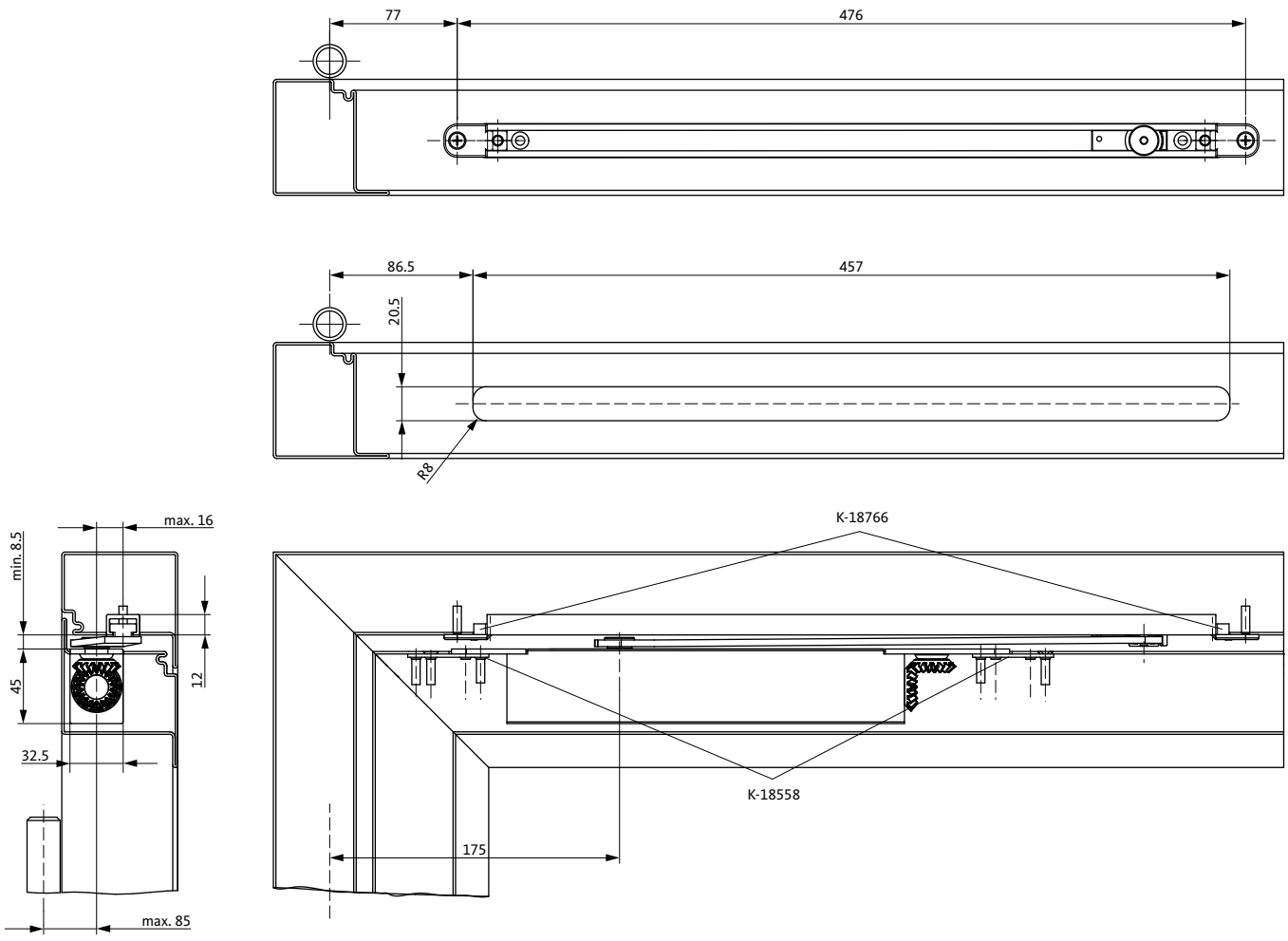
Installation with 6 mm axle extension
for 15.5 – 17 mm rebate clearance



Installation with 8 mm axle extension
for 17.5 – 22 mm rebate clearance



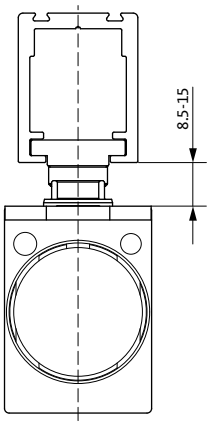
Installation situation: timber



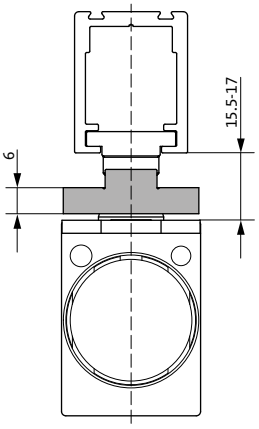
Installation situation: metal

VTS 735 – Mounting and installation situations

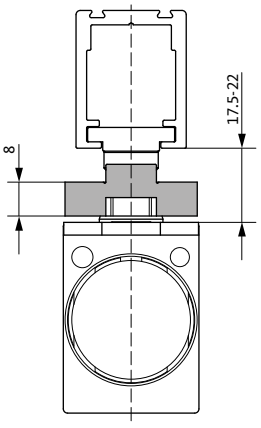
with GS VTS 73x 26x32 functional slide rail



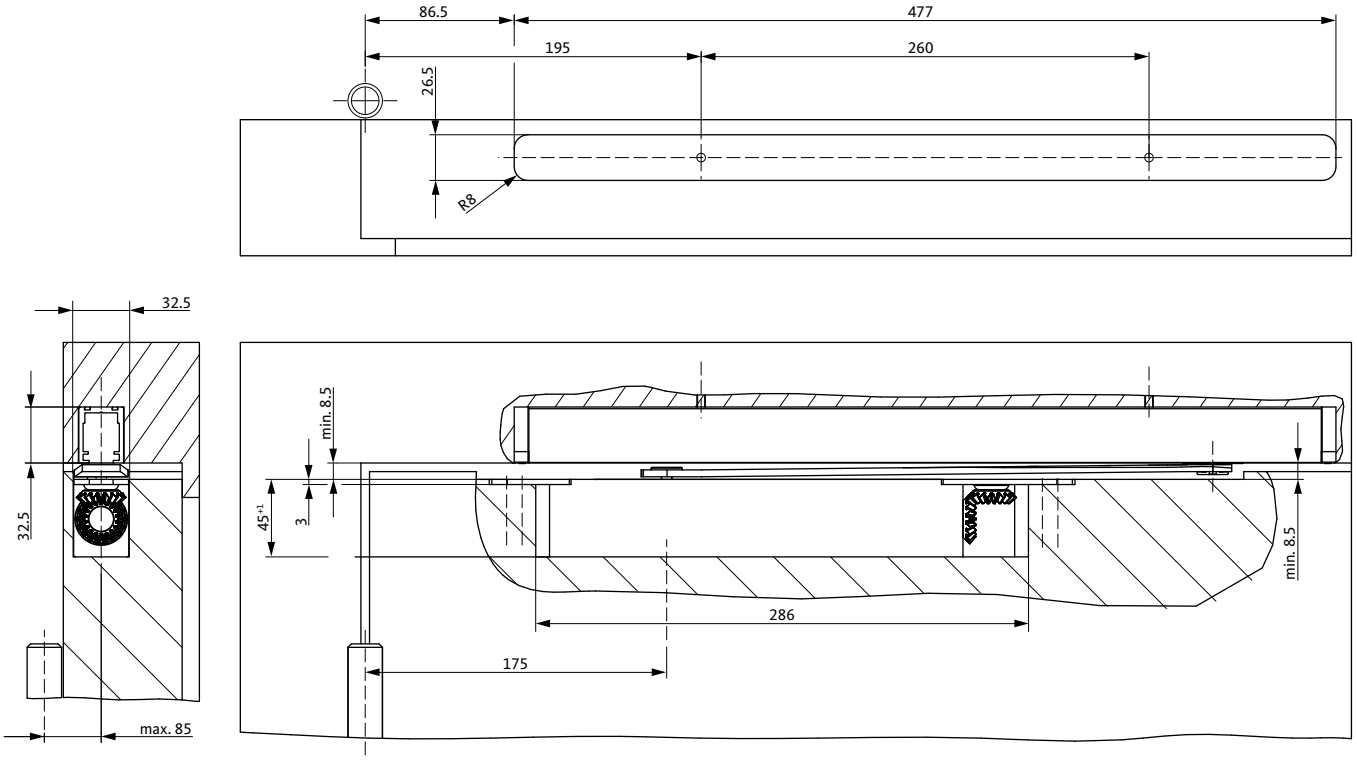
Installation without axle extension
for 8.5 – 15 mm rebate clearance



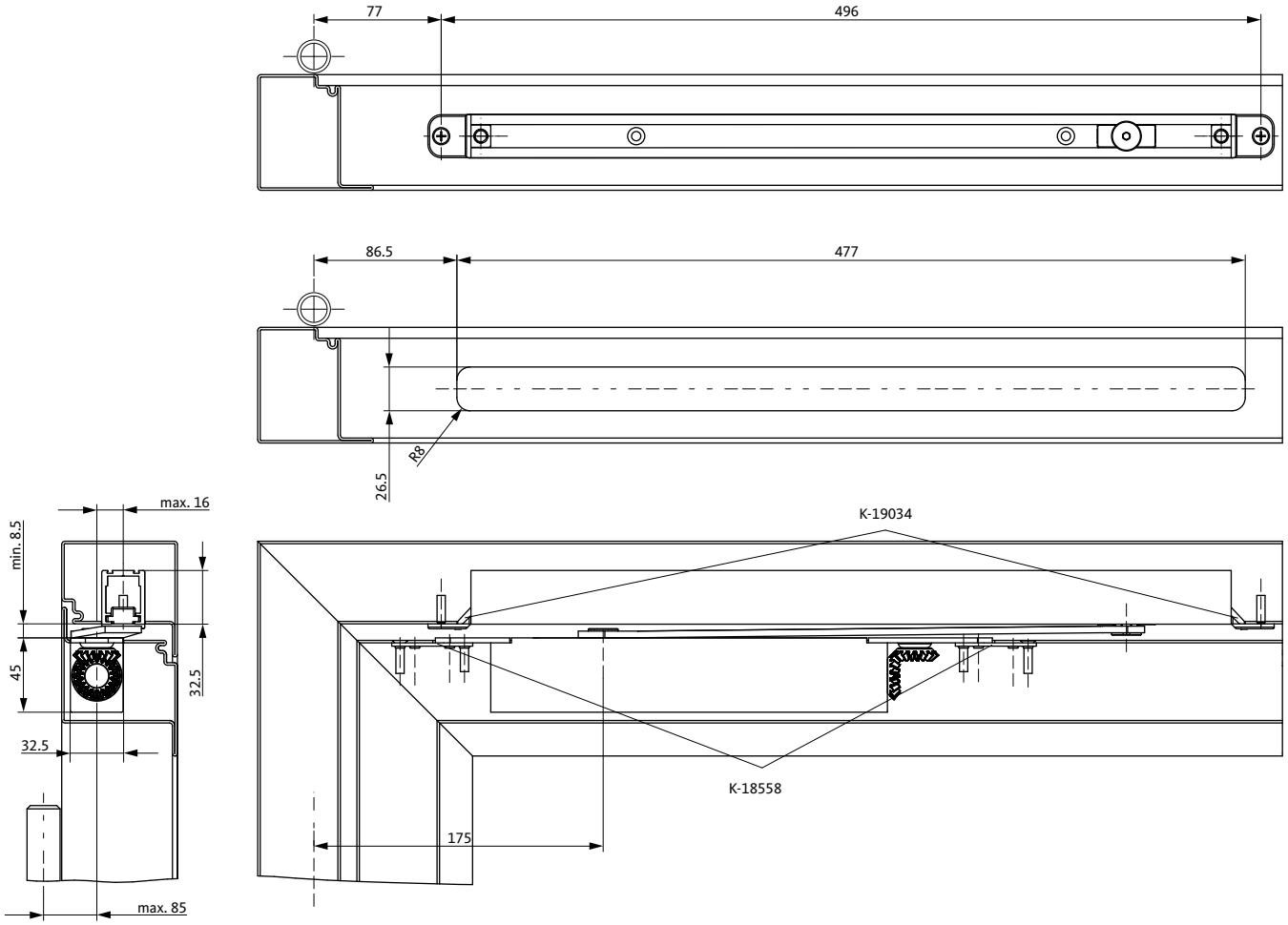
Installation with 6 mm axle extension
for 15.5 – 17 mm rebate clearance



Installation with 8 mm axle extension
for 17.5 – 22 mm rebate clearance



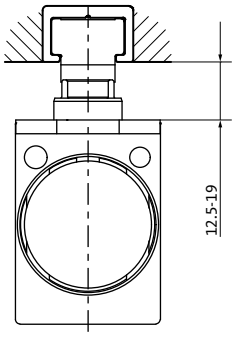
Installation situation: timber



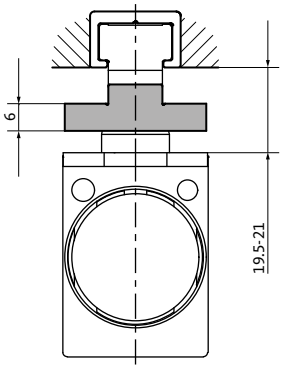
Installation situation: metal

VTS 735/4 – Mounting and installation situations

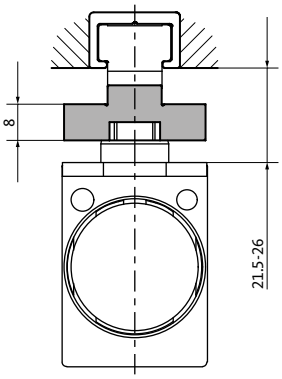
with GS VTS 73x 20x12 standard slide rail



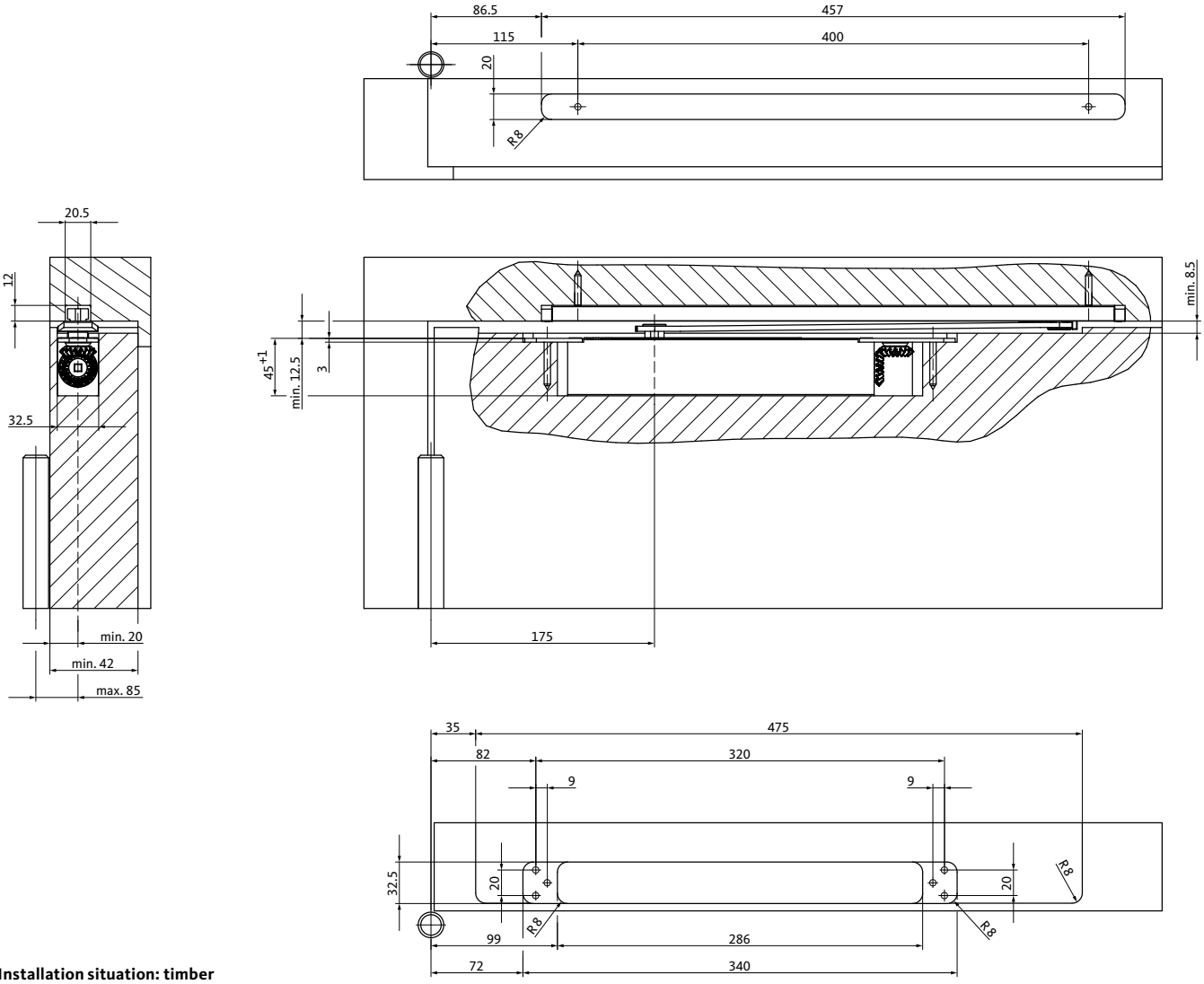
Installation without axle extension
for 12.5 – 19 mm rebate clearance



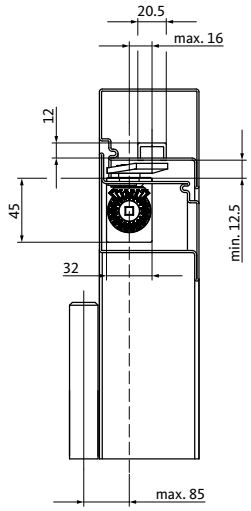
Installation with 6 mm axle extension
for 19.5 – 21 mm rebate clearance

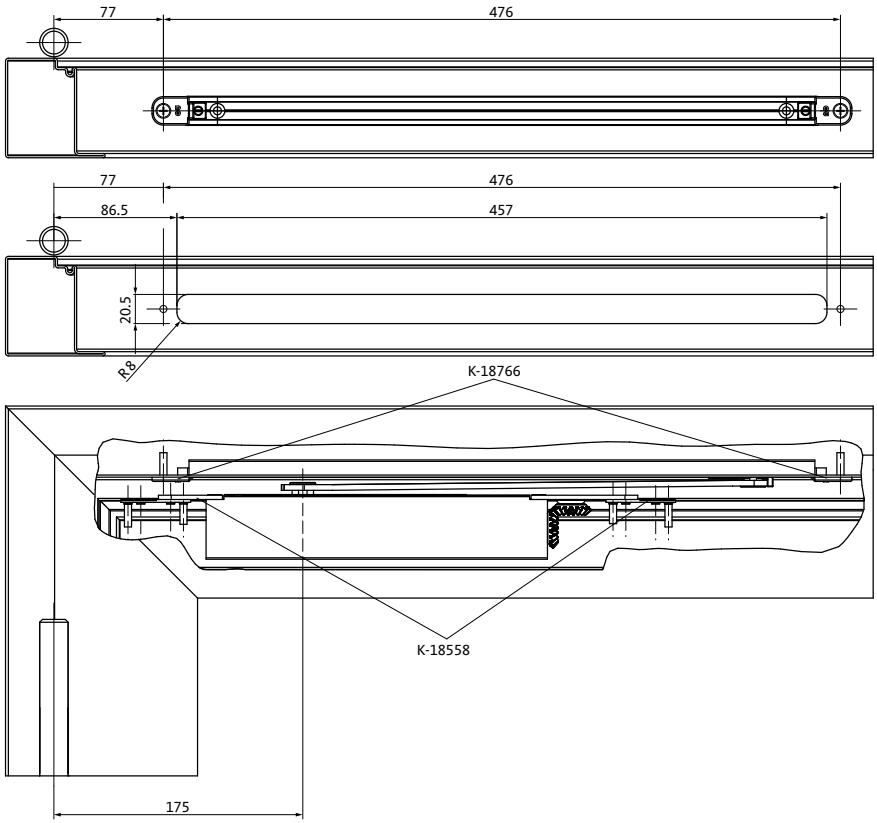


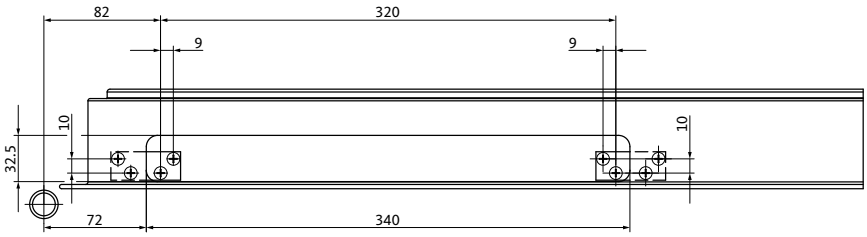
Installation with 8 mm axle extension
for 21.5 – 26 mm rebate clearance



Installation situation: timber



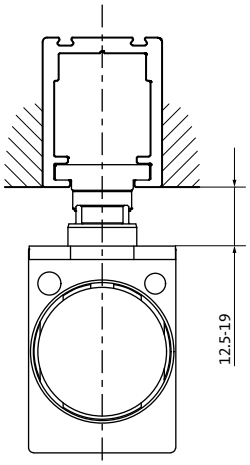




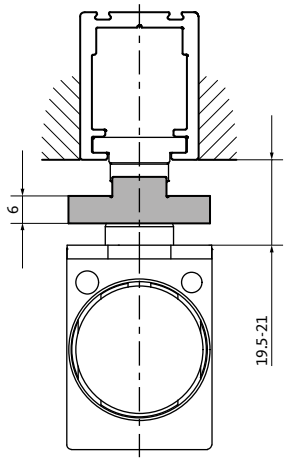
Installation situation: metal

VTS 735/4 – Mounting and installation situations

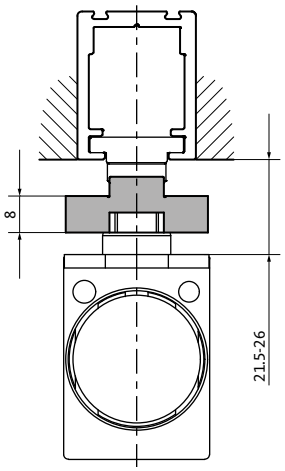
with GS VTS 73x 26x32 functional slide rail



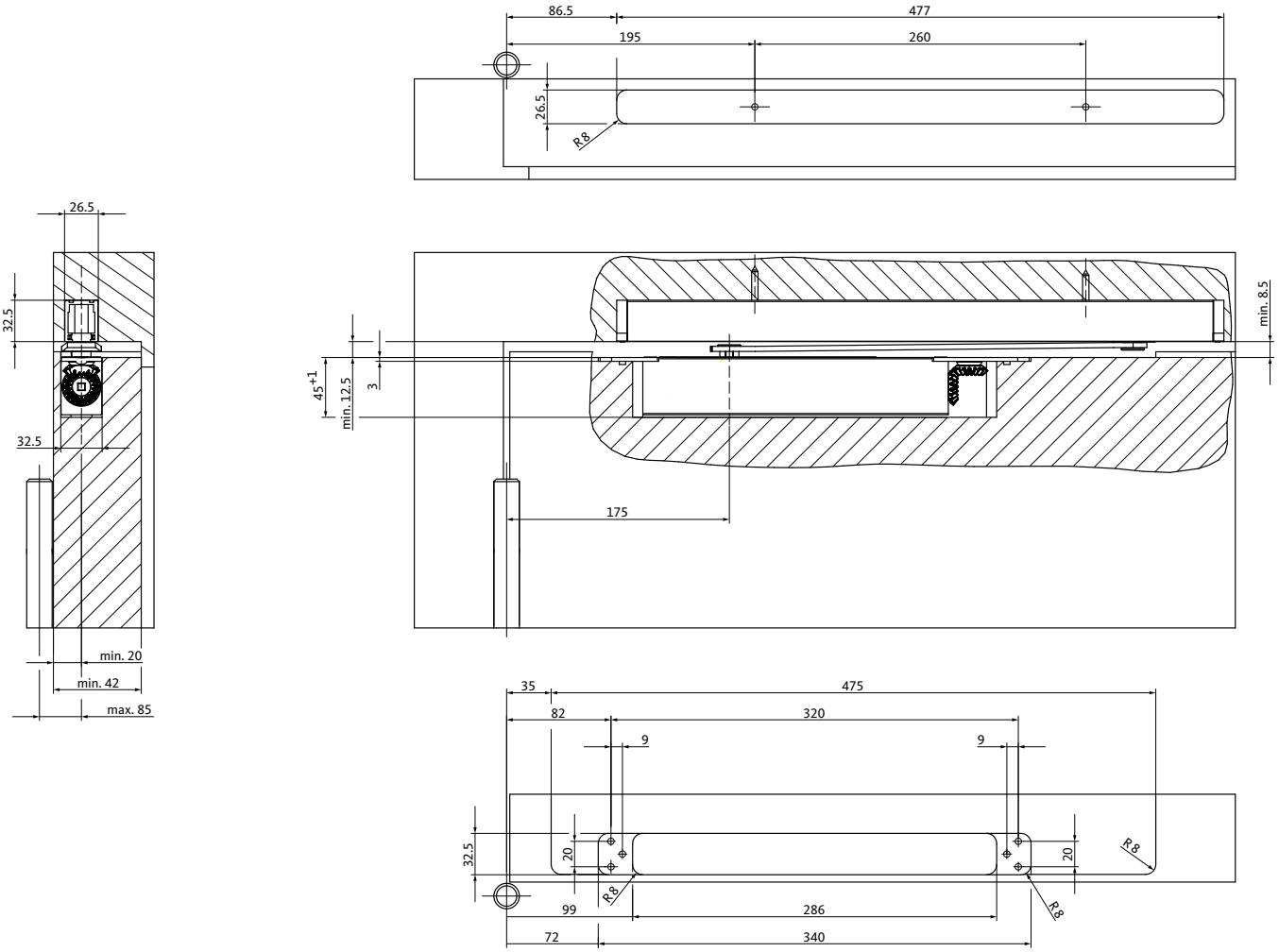
Installation without axle extension
for 12.5 – 19 mm rebate clearance



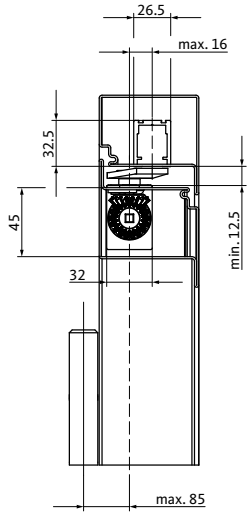
Installation with 6 mm axle extension
for 19.5 – 21 mm rebate clearance

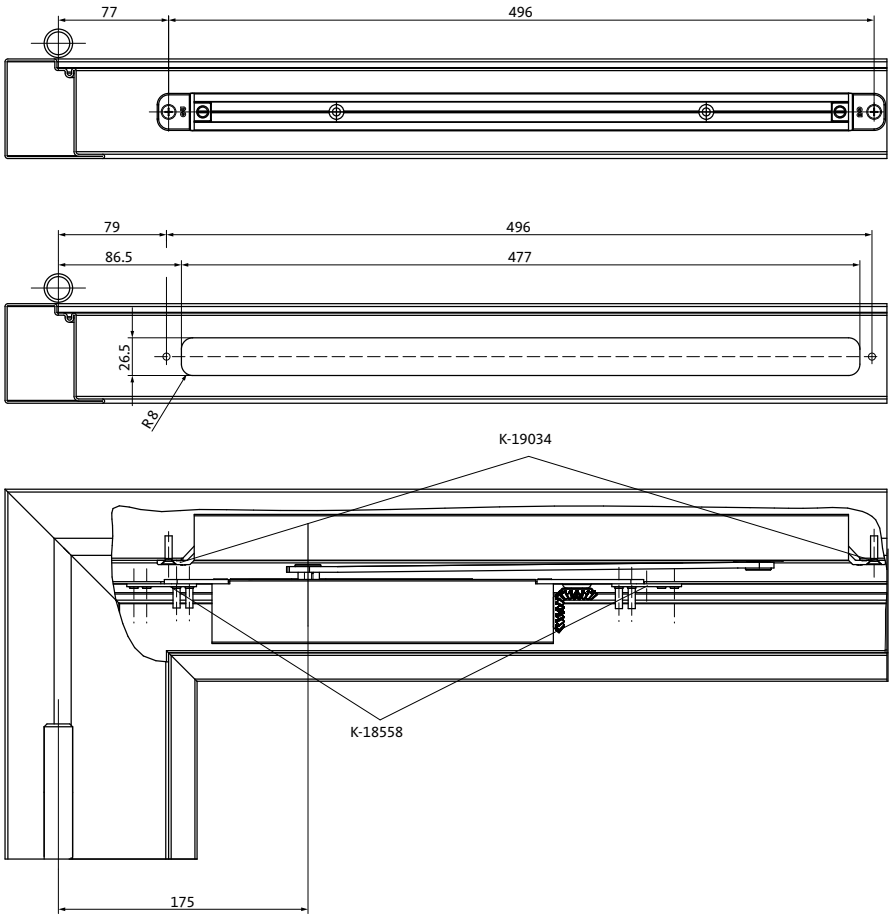


Installation with 8 mm axle extension
for 21.5 – 26 mm rebate clearance



Installation situation: timber

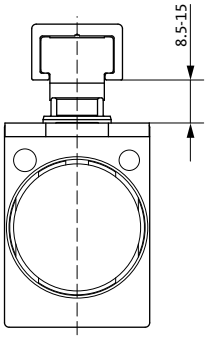




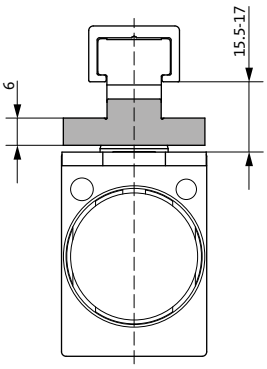
Installation situation: metal

VTS 735 FL – Mounting and installation situations

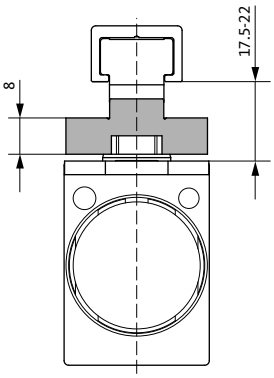
with GS VTS 73x 20x12 standard slide rail



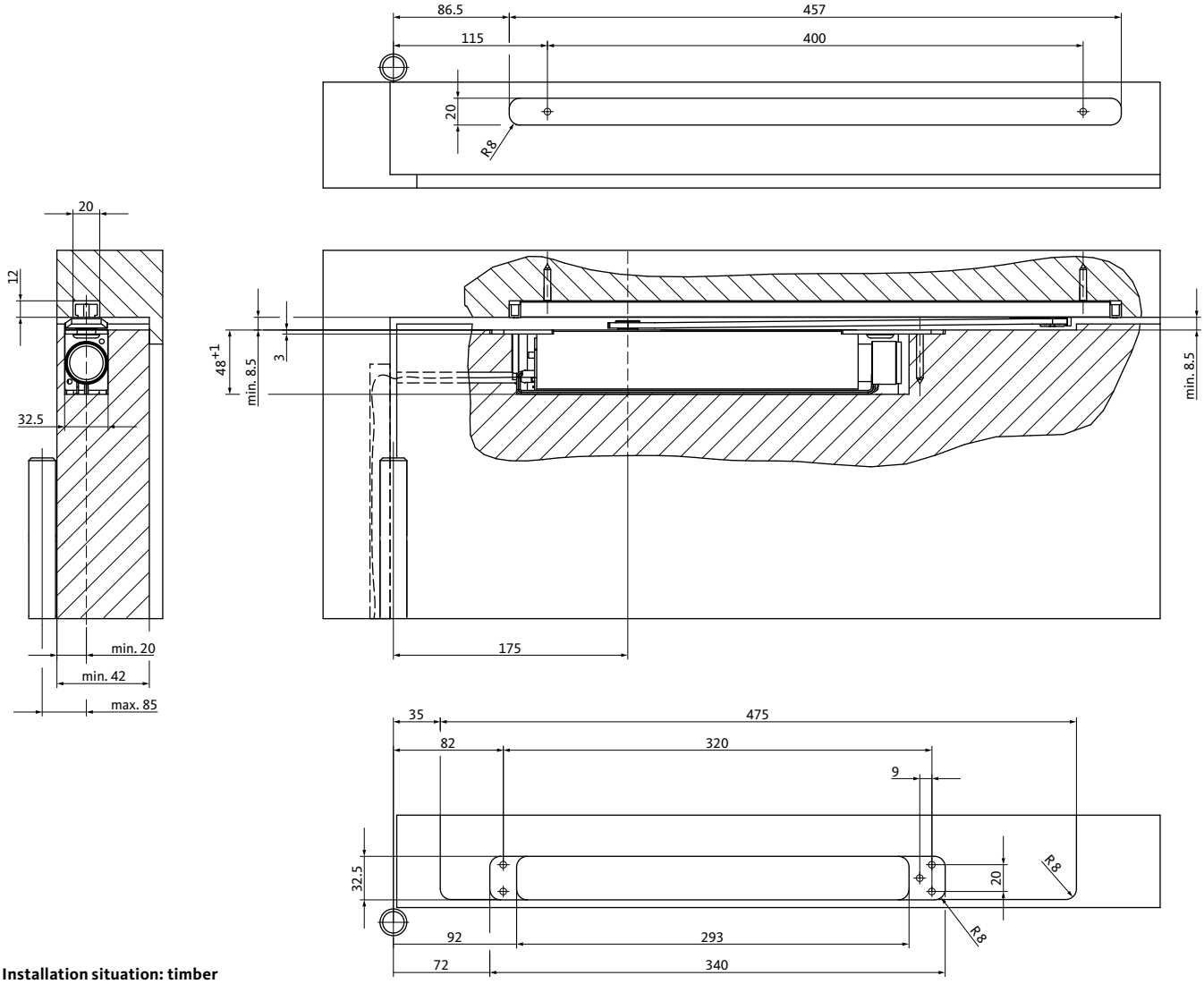
Installation without axle extension
for 8.5 – 15 mm rebate clearance



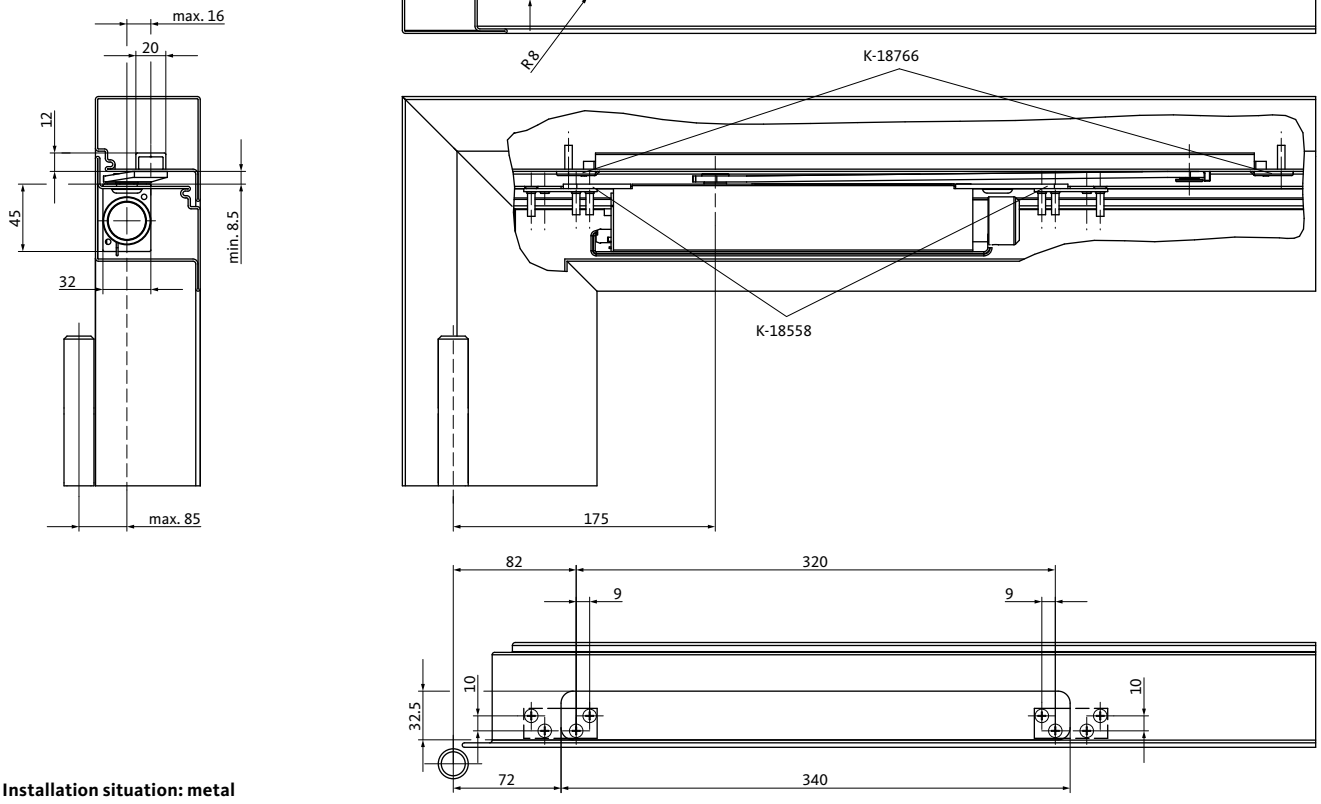
Installation with 6 mm axle extension
for 15.5 – 17 mm rebate clearance



Installation with 8 mm axle extension
for 17.5 – 22 mm rebate clearance



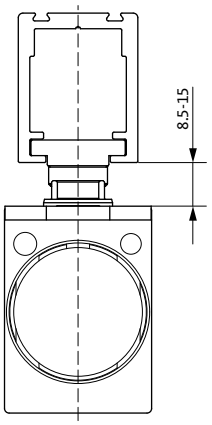
Installation situation: timber



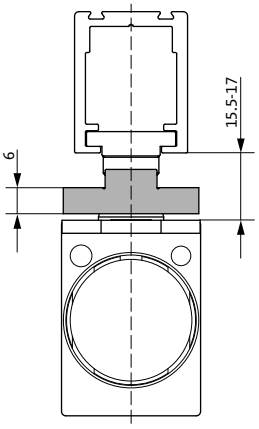
Installation situation: metal

VTS 735 FL – Mounting and installation situations

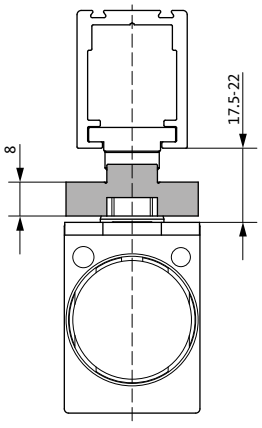
with GS VTS 73x 26x32 functional slide rail



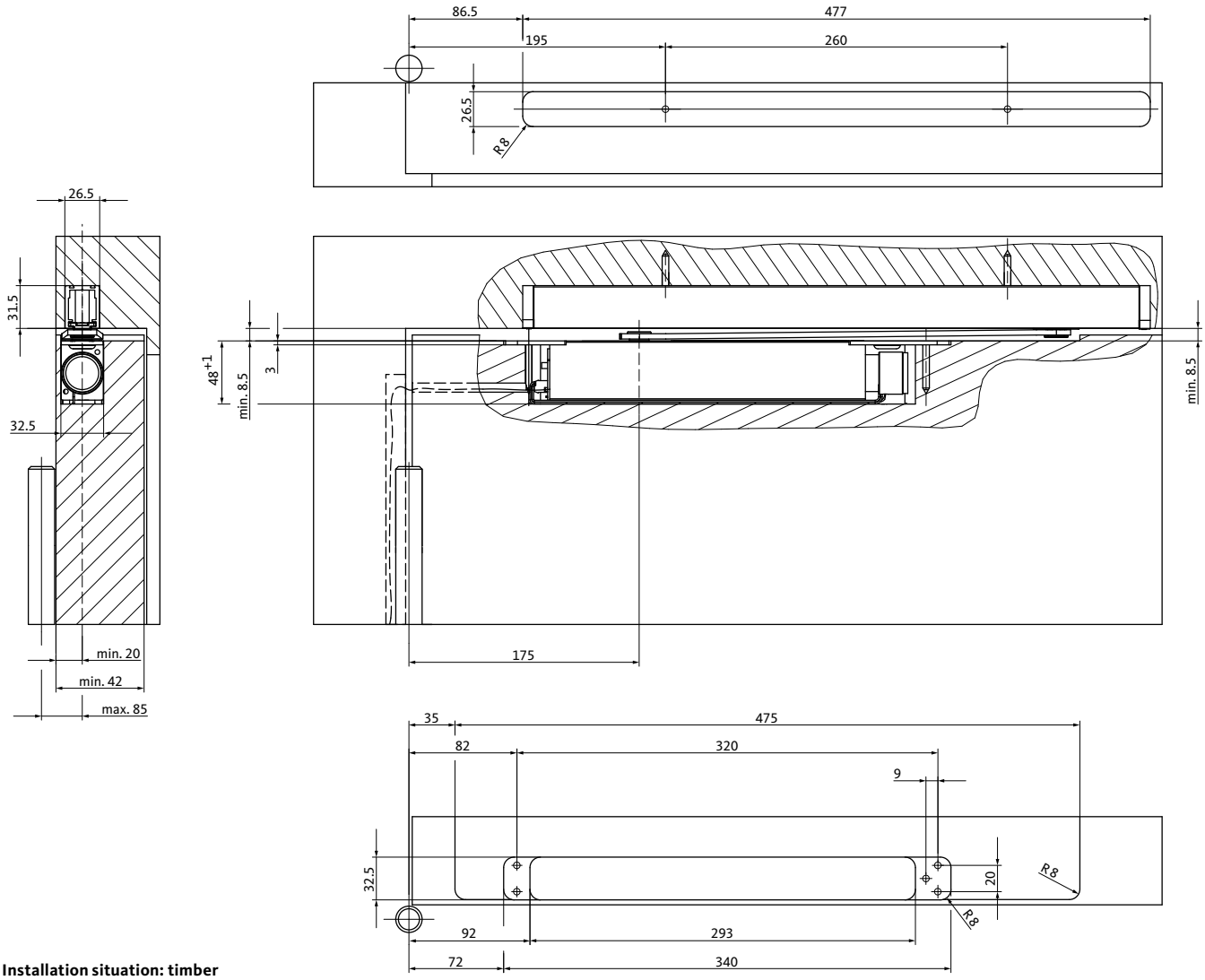
Installation without axle extension
for 8.5 – 15 mm rebate clearance



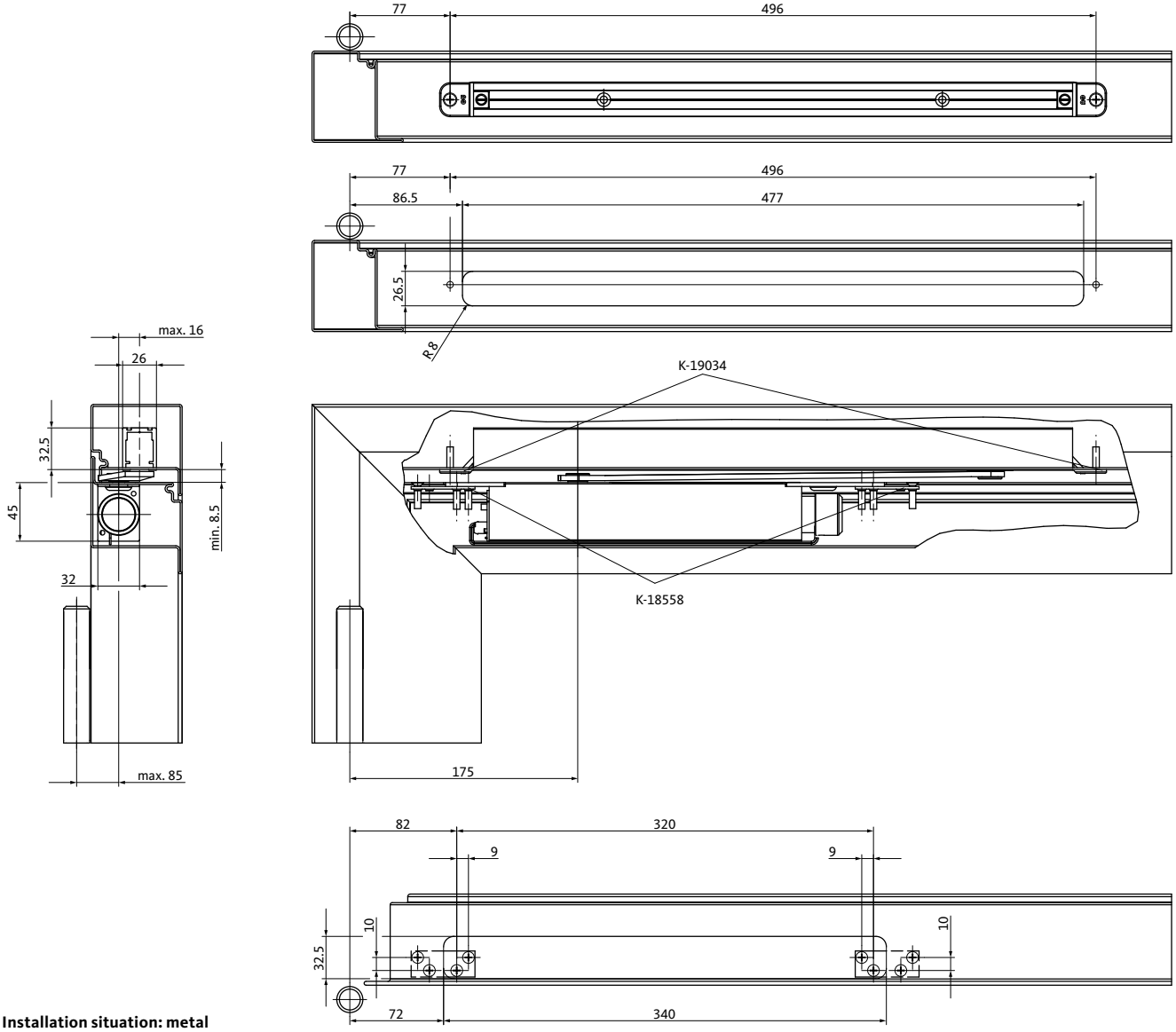
Installation with 6 mm axle extension
for 15.5 – 17 mm rebate clearance



Installation with 8 mm axle extension
for 17.5 – 22 mm rebate clearance



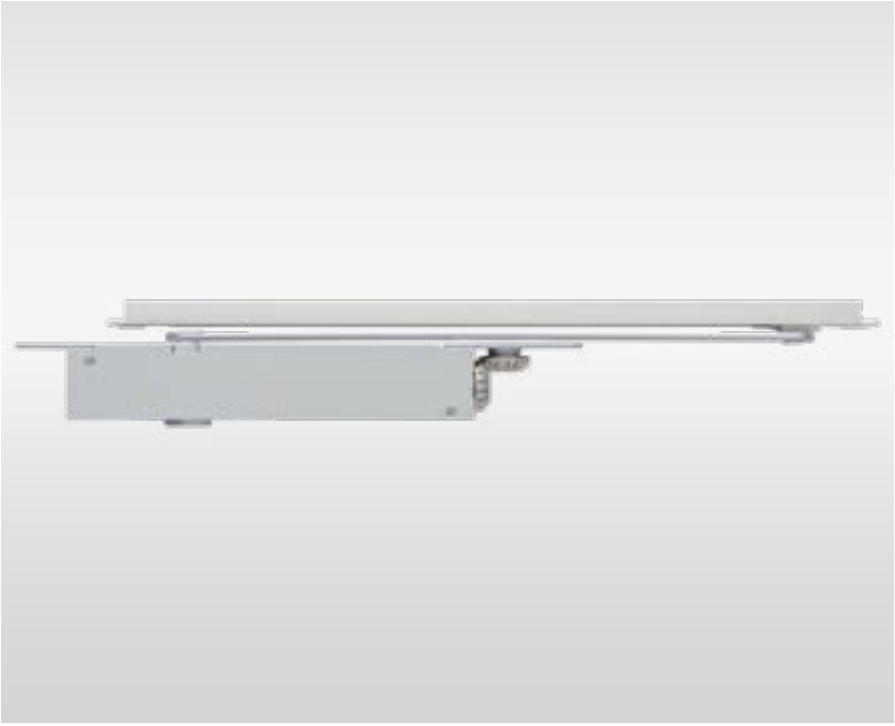
Installation situation: timber

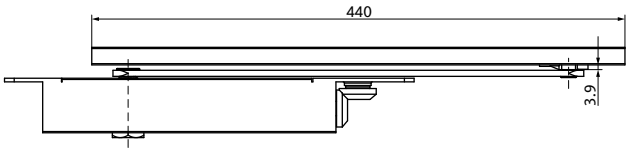


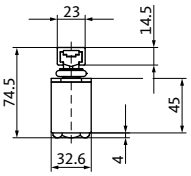
Installation situation: metal

VTS 634 concealed door closer

Closing force size EN 2-4 - for door leaf widths up to 1100 mm







Product characteristics

- Door closer for 1-leaf doors with door leaf widths up to 1100 mm concealed in door leaf
- Tested and certified in accordance with EN 1154
- Heart curve technology allows the door to be opened and accessed very easily and comfortably
- Suitable for barrier-free construction in compliance with DIN 18040 (up to EN 3)

Adjustment functions

- Closing speed
- Latching speed
- Steplessly adjustable closing force sizes EN 2-4
- The valve functions can also be adjusted at any time when the equipment is installed
- Thermomatic valves ensure a uniform closing speed in the event of temperature fluctuations

Optional

- FM-VTS 634 mechanical hold-open device: steplessly adjustable hold-open angle of 80° – 120° [1]
- ÖB-VTS 634 opening restrictor: steplessly adjustable opening angle up to 120°

Classification code in accordance with EN 1154						
VTS 634	3	8	2 4	1	1	3

ÖB* FM*

VTS 634

*Optional accessories

VTS 634 door closer

Contents	Order number
VTS 634 door closer body with slide rail (including fixing accessories)	K-19662-00-0-1

Accessories (optional)

Designation	Order number
FM-VTS 634 mechanical hold-open device [1]	K-19906-00-0-0
ÖB-VTS 634 opening restrictor	K-19907-00-0-0
AP-VTS 634 fixing plate	K-18558-00-0-1

Application ranges

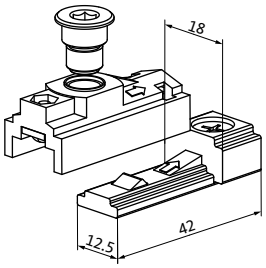
- 1-leaf fire and smoke protection doors
- 1-leaf swing doors
- Min. door leaf width 600 mm
- Max. door leaf width 1100 mm
- DIN left and DIN right-handed
- Installation of the closer body in the door leaf, installation of the slide rail in the upper door frame
- Max. door opening and closing angle up to 120° [2]
- Door leaf thicknesses from 42 mm
- Rebate clearance heights 8.5 to 14 mm
- Additional proof of suitability is required with fire protection doors

[1] Not approved for fire and smoke protection doors.
[2] Depending on the door situation. Position door stop for max. door opening angle.

EN 1154 DIN 18040 CE

VTS 634 concealed door closer – Accessories

Mechanical hold-open device, opening restrictor, fixing plate

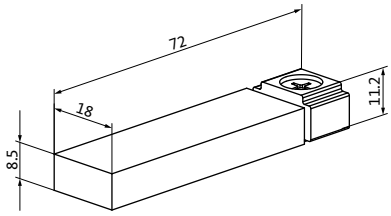


FM-VTS 634 mechanical hold-open device [1]

- Can be integrated in the slide rail
- Retrofittable
- Hold-open angle steplessly adjustable from 80° – 120° [2]
- Adjustable holding force

Versions/Order numbers

Designation	Order number
FM-VTS 634 mechanical hold-open device	K-19906-00-0-0

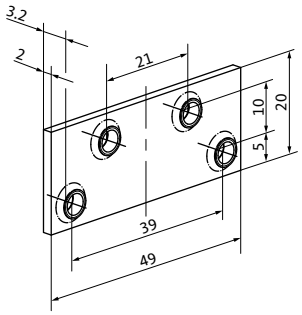


ÖB-VTS 634 opening restrictor [3]

- Can be integrated in the slide rail
- Retrofittable
- Opening angle steplessly adjustable up to 120° [2]

Versions/Order numbers

Designation	Order number
ÖB-VTS 634 opening restrictor	K-19907-00-0-0

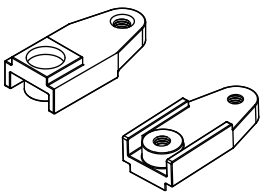


AP-VTS 634 fixing plate

for fastening the closer body to aluminium profiles

Versions/Order numbers

Designation	Order number
AP-VTS 634 fixing plate	K-18558-00-0-1



GS-VTS 634 fixing accessories

for fastening the slide rail to aluminium profiles

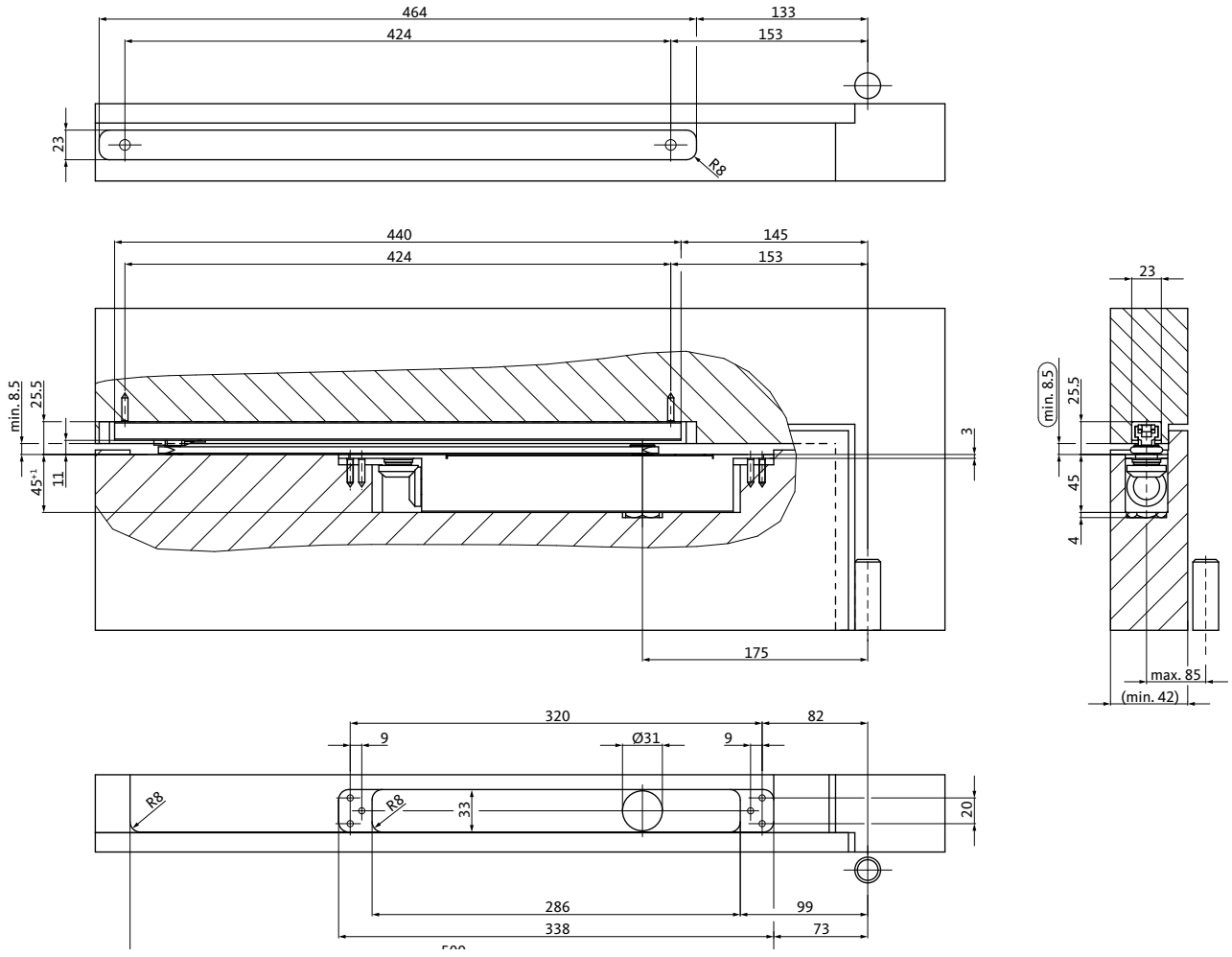
Versions/order numbers

Designation	Part number
GS-VTS 634 fixing accessories	K-20162-00-0-1

[1] Not approved for fire and smoke protection doors.
[2] Depending on the door situation.
[3] **Attention:** in many applications, this opening restrictor is not a substitute for the doorstop!

VTS 634 concealed door closer – Installation situations

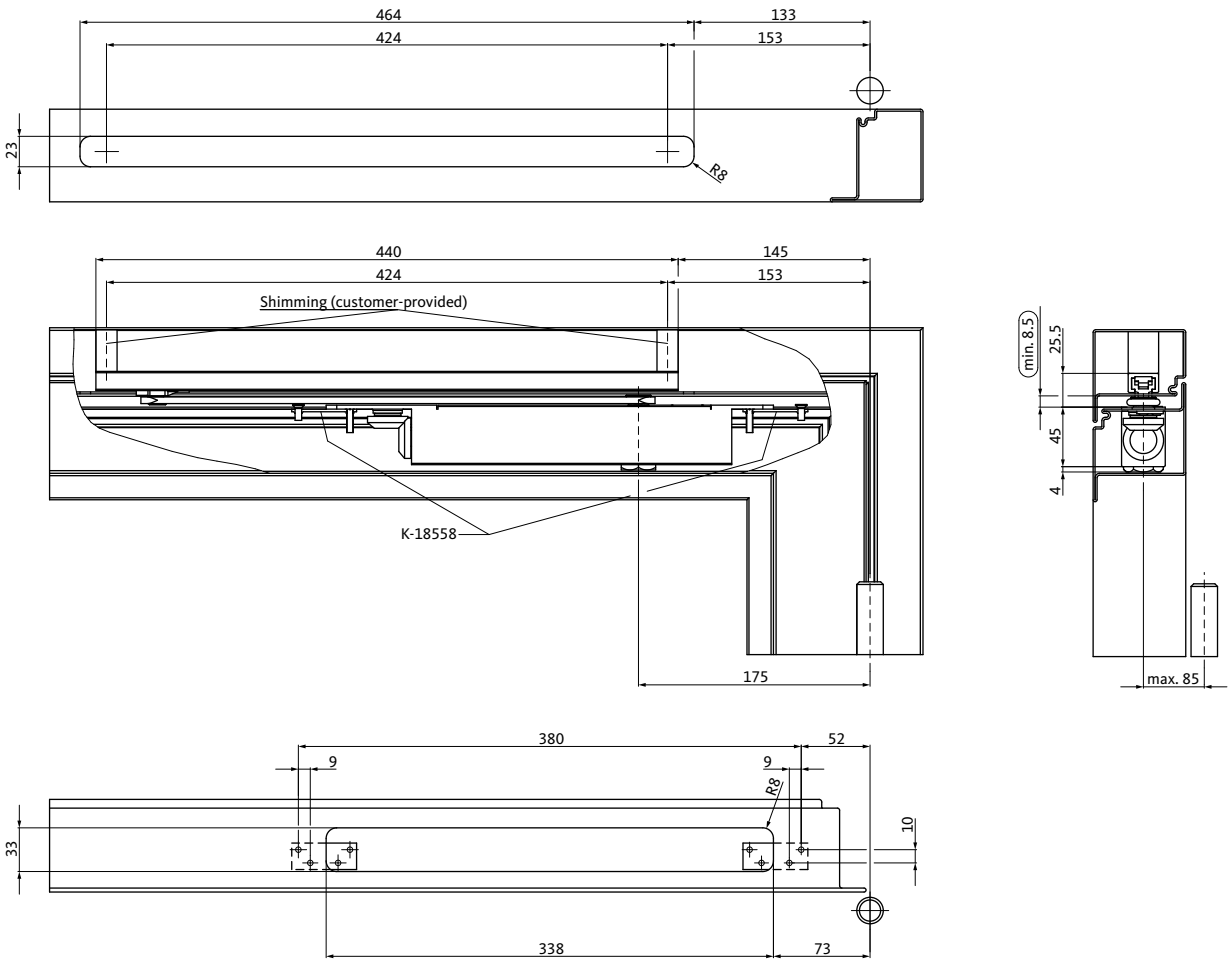
Timber elements



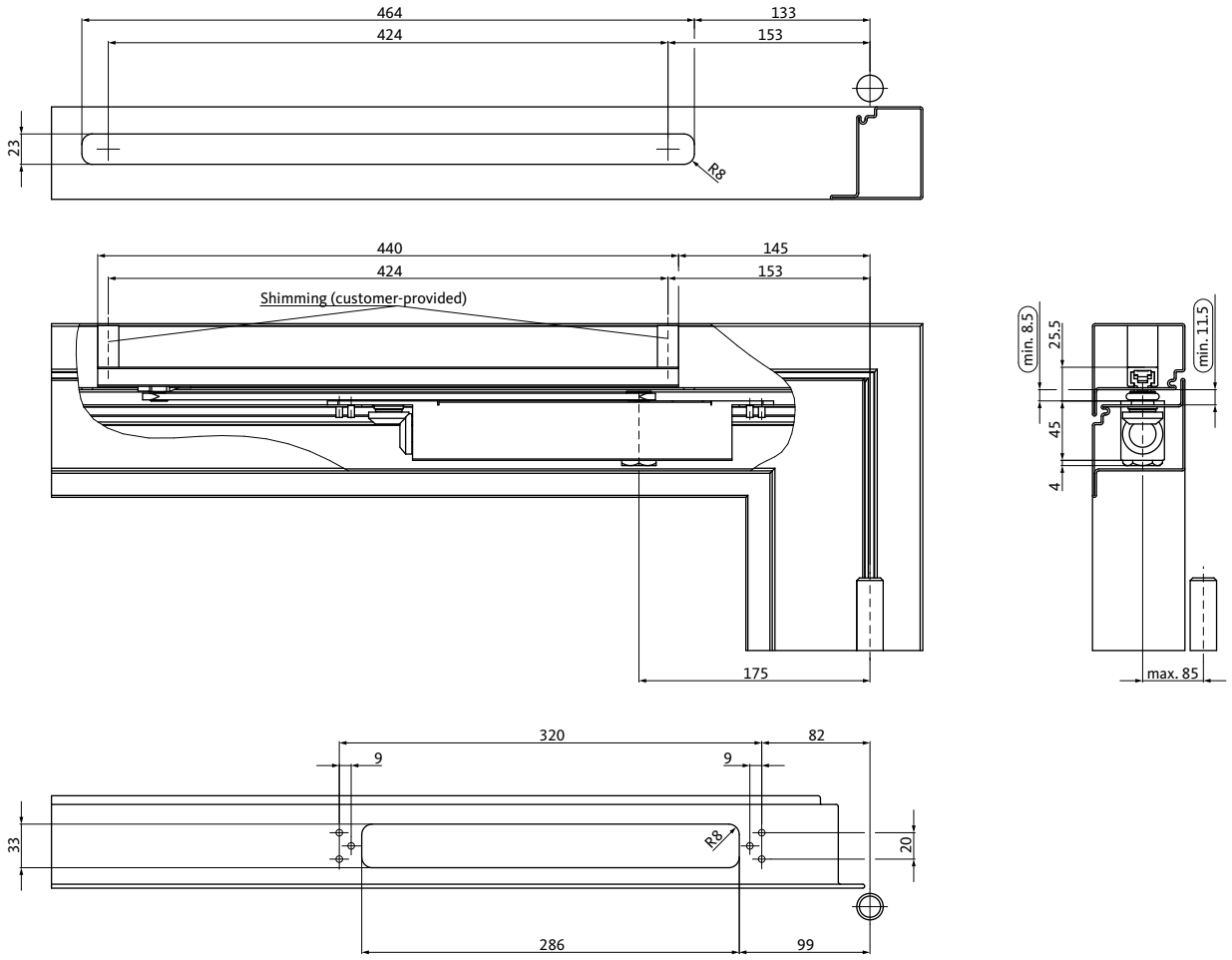
Installation situation: timber

VTS 634 concealed door closer – Installation situations

Metal elements



Installation situation: metal with AP-VTS 634 fixing plate

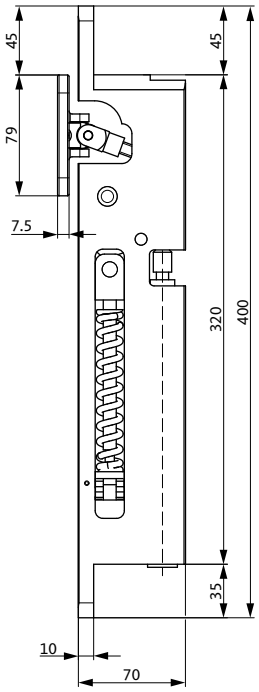


Installation situation: metal without fixing plate

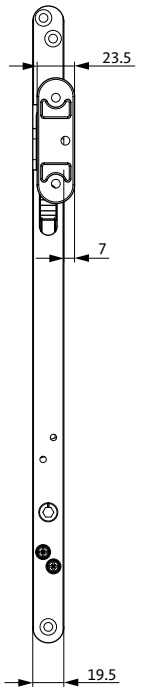
Rebate door closer 20/24

for concealed installation in the vertical door rebate of interior doors

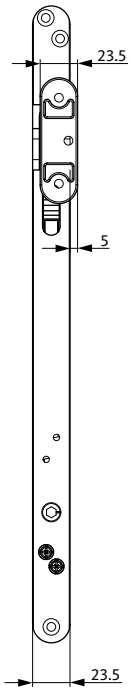




Rebate door closer 20 and 24



Rebate door closer 20



Rebate door closer 24

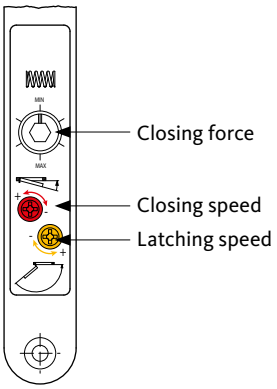
Product characteristics

- Door closer for 1-leaf doors with door leaf widths up to 1000 mm concealed in vertical door rebate

Adjustment functions

- Adjustable door closing force
  – Rebate door closer 20 = EN 1-2
  – Rebate door closer 24 = EN 2-3
- Stepless adjustment of the valve functions:
  – Closing speed
  – Latching speed
- All valves are colour-coded and can be adjusted from the front
- Thermomatic valves ensure a uniform closing speed in the event of temperature fluctuations
- Security valves in the closer protect against overloading
- Controlled closing from an opening angle of approx. 90°
- High closing pressure with the door closed.
- The door can be opened easily due to decreasing opening resistance
- Compact anodised aluminium housing

Adjustment functions



Classification code in accordance with EN 1154						
Rebate door closer 20	4	8	1/2	0	1	4
Rebate door closer 24	4	8	2/3	0	1	4

Rebate door closer 20 – EN 1-2 (= door leaf widths up to 900 mm)			
Designation	**Closing force size in accordance with EN 1154**	**Surface**	**Order number**
Rebate door closer 20	1-2	silver	K-15144-00-0-0

Rebate door closer 24 – EN 2-3 (= door leaf widths up to 1000 mm)			
Designation	**Closing force size in accordance with EN 1154**	**Surface**	**Order number**
Rebate door closer 24	2-3	silver	K-15145-00-0-0

Note: only to be used in combination with surface-mounted door hinges.

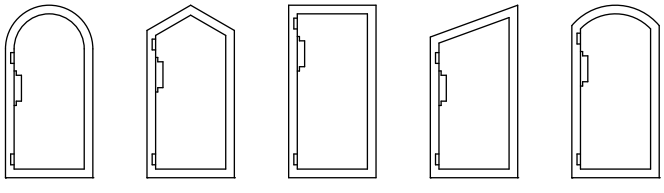
Application ranges

- For flush or rebated 1-leaf interior swing doors (not exposed to wind load) made from timber, PVC, aluminium and steel
- Universally adjustable for all types of door, particularly for round, segmental and pointed arch doors
- DIN left and DIN right-handed
- Max. door opening angle 140° [1] [2]

Limitations

Rebate door closers	Door weight [kg]		Min. door leaf thickness [mm]	Max. door leaf width [mm]
	min.	max.		
20	35	80	30	900
24	50	140	40	1000

Door shapes



[1] Position doorstop for max. door opening angle.

[2] Opening angle depends on installation dimensions.

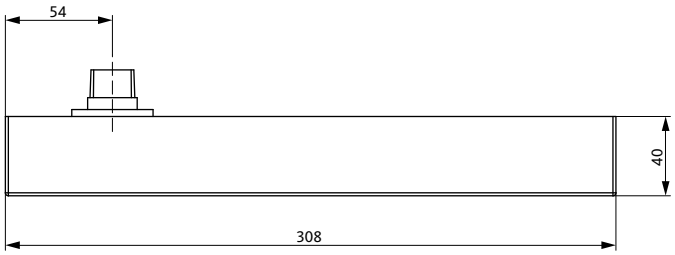
UTS 840 floor spring

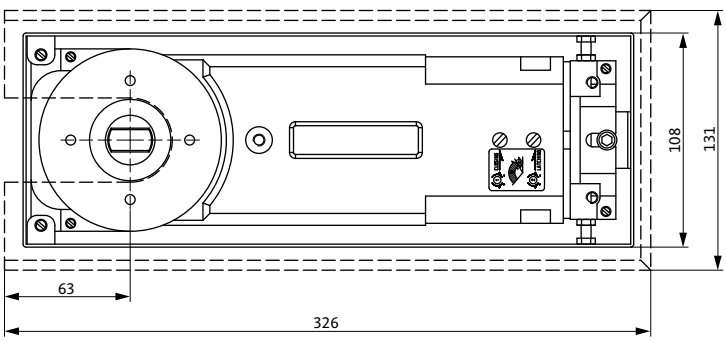
Closing force size EN 3 – for door leaf widths up to 950 mm



Product characteristics

- Door closer for 1-leaf doors with door leaf widths up to 950 mm
- Closing force size EN 3
- Stepless adjustment of the valve functions:
  – Closing speed
  – Latching speed
- Mechanical backcheck from approx. 80° door opening
- Installation height only 40 mm
- Easy to install on the door as the dimension between the housing and cement case can be adjusted lengthways, sideways or vertically
- Plastic valves ensure that the closing function continues to work in the event of temperature fluctuations
- Max. door opening and closing angle 130°
- Mechanical hold-open at 90° (can be triggered manually)
- Replaceable, divided axle





UTS 840 floor spring – EN 3 (= door leaf widths up to 950 mm)

Designation	Description	Order number
UTS 840 floor spring	Closing force size EN 3	K-17442-25-0-0

Application ranges

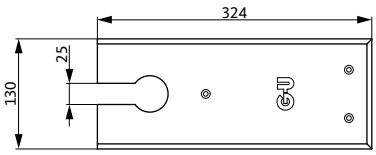
- 1-leaf double-action swing doors
- Max. door leaf width 950 mm
- Door leaf weights up to 120 kg

Additional information

- Cover plates must be ordered separately
- Use casting compounds in outdoor and wet areas

UTS 840 floor spring – Accessories

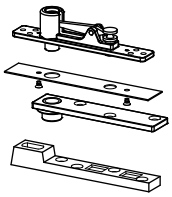
Cover plate, accessories set



UTS 840 cover plate

Versions/Order numbers

Designation	Finish	Order number
UTS 840 cover plate	satin stainless steel	V-00704-00-0-8H



UTS 840 accessories set

Versions/Order numbers

Designation	Finish	Order number
UTS 840 accessory set consisting of top and bottom pivots and door strap	satin stainless steel	K-17477-00-0-8

Hold-open systems



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Hold-open systems

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Optical smoke switch	Page	220
Manual release push-button	Page	223
Radio system: radio module	Page	224
Radio system: radio smoke switch	Page	225
Radio system: manual radio release push-button	Page	226
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Acceptance test of hold-open systems

General notes	Page	231
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Hold-open systems

officially approved by DIBt (German Institute of Building Engineering)



High level of safety with low-key presence

Their capability goes unnoticed during everyday use, but is indispensable when serious situations arise: electrical hold-open systems are part of preventative fire protection. They perform the task of keeping legally-prescribed fire barriers in escape and rescue routes open, especially fire and smoke protection doors. They do this so efficiently that many people pass routinely through the door without noticing it. When fire breaks out on the other hand, an integrated smoke protection switch triggers the system and the door closes automatically thus preventing the spread of smoke gases and fire to adjacent rooms and buildings.

Applications

Fire barriers in escape and rescue routes, e.g. fire and smoke protection doors.

These doors are normally used in kindergartens, hospitals, schools, hotels and residential homes for the elderly. In addition to fire protection, their purpose is to provide barrier-free access to children, elderly persons and persons with disabilities. As a whole they therefore ensure a smooth flow of public and goods traffic during daily operations.

Test requirements/Approval

In Germany, technical approval is required for hold-open systems and is issued by the German Institute of Building Engineering (DIBt). This fundamentally requires that only complete systems, consisting of the above tested and approved individual components can be approved. If non-approved components are subsequently installed, the testing must be carried out again.

Acceptance, testing and maintenance

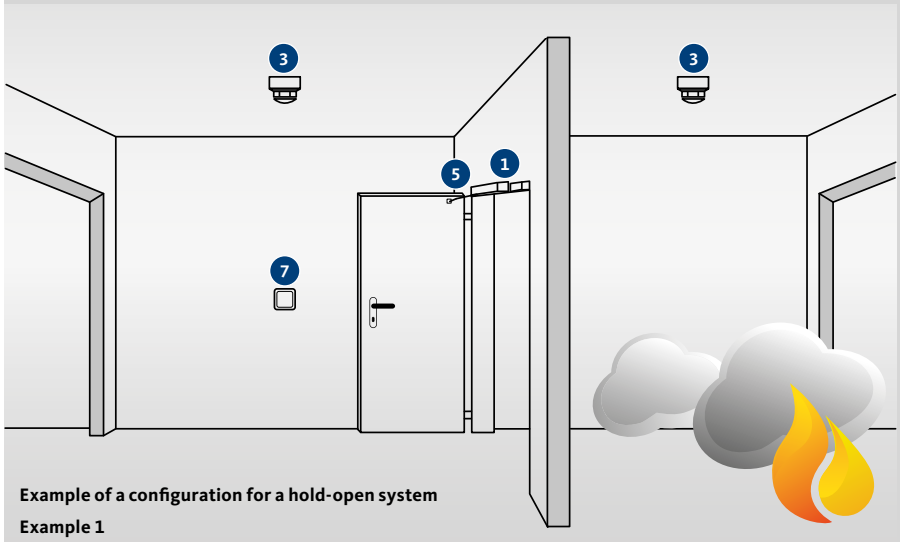
According to the DIBt guideline, a hold-open system must be tested once it has been installed and is ready to use and before it is brought into operation for the first time at the place of use to ensure it is in perfect working order and has been installed as specified in the instructions (=acceptance test). The acceptance test must only be carried out by an expert or authorised qualified person acting on behalf of the manufacturer of the tripping and/or hold-open devices.

The acceptance test must be arranged by the operator. It is also the duty of the operator to ensure that the hold-open system remains operational at all times. To do so, the operator must check the hold-open system at least once a month to ensure it is working properly and must carry out maintenance at least once a year. The scope, result and timing of periodic monitoring must be recorded.

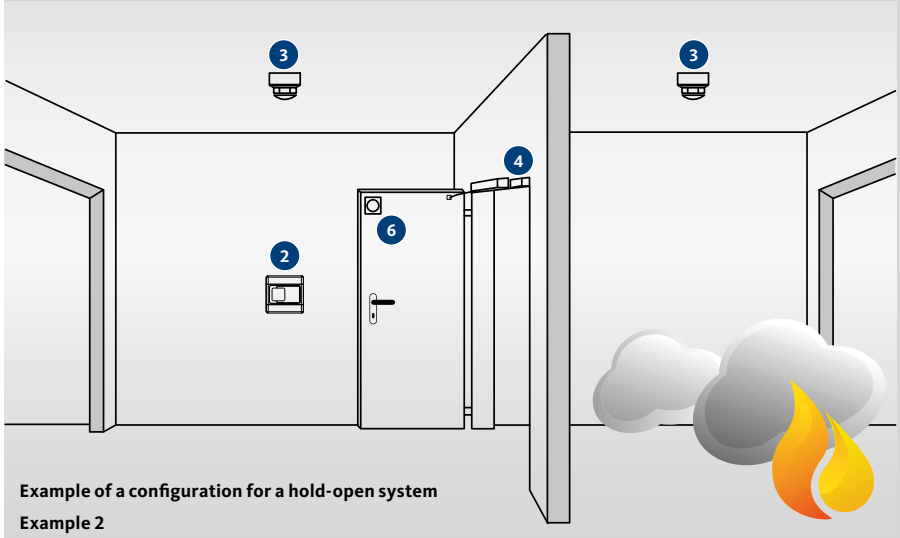
These checks as well as maintenance and repairs may only be carried out by an authorised qualified person acting on behalf of the manufacturer.

Hold-open systems

Example of a configuration for a hold-open system



Example of a configuration for a hold-open system
Example 1



Example of a configuration for a hold-open system
Example 2

System structure

A hold-open system consists of the following components:

Power supply unit for energy supply and a release device to initiate the closing action		
1	RSM-H smoke switch module	Page 218/219
2	FSZ-Basis hold-open system control unit	Page 217

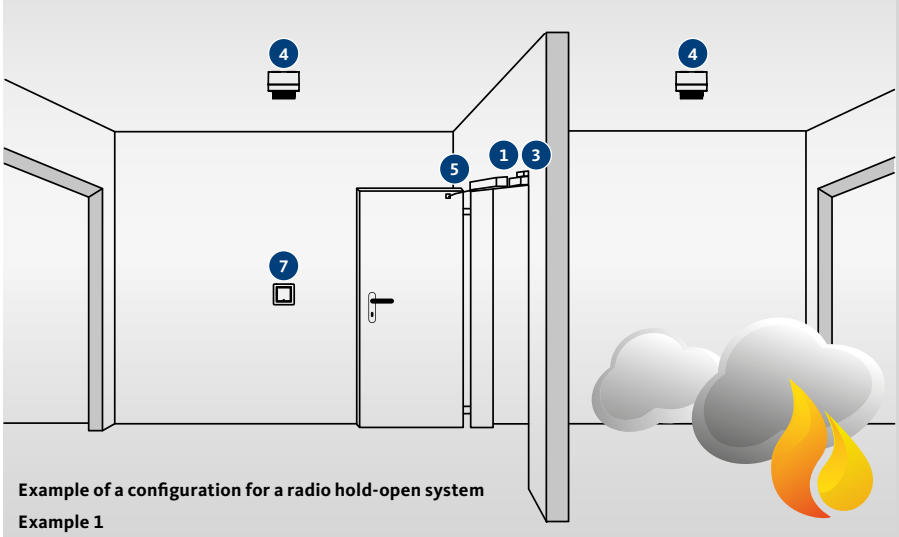
Fire detection element for detection of smoke and heat		
3	ORS 142 optical smoke switch for ceiling mounting	Page 220
4	ORS 142 W optical smoke switch for wall mounting	Page 221
1	RSM-H smoke switch module	Page 218/219

hold-open device that holds the closing barrier open		
5	Integrated electromechanical hold-open device (FE-OTS 73x or FE-VTS 73x) or free-swing door closer (OTS 73x FL or VTS 735 FL)	see respective chapter
6	Hold-open magnet (electromagnetic)	Page 228/229

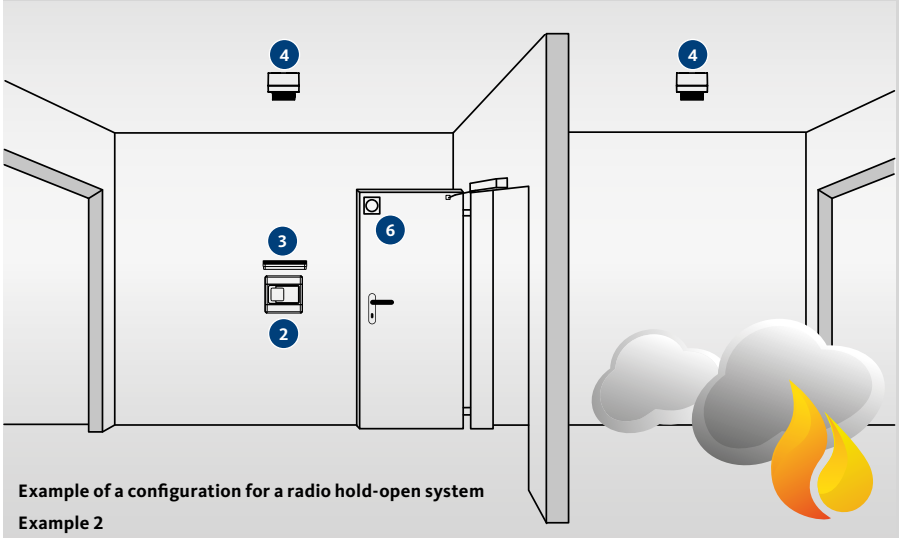
Manual release push-button for manual release of hold-open systems		
7	HAT 02 AP/UP manual release push-button	Page 223

Hold-open systems

Example of a configuration for a radio hold-open system



Example of a configuration for a radio hold-open system
Example 1



Example of a configuration for a radio hold-open system
Example 2

155 F radio system

The 155 F radio system was specially developed for use in hold-open systems on fire and smoke-protection barriers. It can be used both as an extension to a wired hold-open system and as a stand-alone radio hold-open system.

Performance features

- Up to 20 radio participants in one system
- Real-time reach measurement
- Visual status indication

System structure

A radio hold-open system consists of the following components:

Power supply unit for energy supply and a release device to initiate the closing action		
1	RSM-H smoke switch module	Page 218/219
2	FSZ-Basis hold-open system control unit	Page 217
Radio module as an interface between the radio system and the wired system		
3	FM 155 F radio module	Page 224
Fire detection element (radio participant) for detection of smoke and heat		
4	ORS 155 F radio smoke switch	Page 225

Hold-open device that holds the closing barrier open		
5	Integrated electromechanical hold-open device (FE-OTS 73x or FE-VTS 73x) or free-swing door closer (OTS 73x FL or VTS 735 FL)	see respective chapter
6	Hold-open magnet (electromagnetic)	Page 228/229
Manual release push-button for manual release of hold-open systems		
7	HAT 155 F AP manual release push-button	Page 226

Hold-open systems – Components

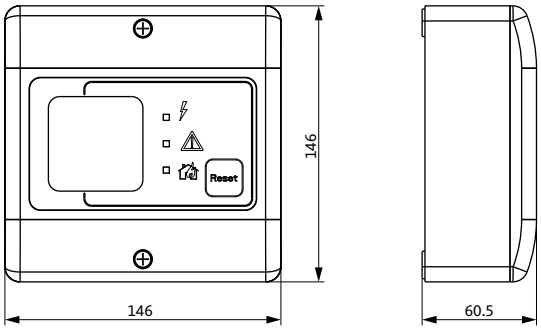
FSZ-Basis hold-open system control unit



FSZ-Basis hold-open system control unit

for use on fire and smoke protection doors

- Integrated manual release push-button
- Integrated reset button
- Operating, alarm and fault indication
- Alarm storage can be activated
- Connectable line monitoring
- Flexible cable inlet



Technical data

Designation	FSZ-Basis hold-open system control unit
Nominal input voltage	230 V AC
Nominal output voltage	24 V DC
Rated output current	400 mA
Switched magnetic output	24 V DC
Potential-free change-over contact	230 V AC / 5 A 30 V DC / 3 A
Ambient temperature	-10 °C to +50 °C
Protection code	IP 65 [1] / IP 30 [2]

[1] With cable inlet at top or bottom
[2] With cable inlet at the back

Versions/order numbers

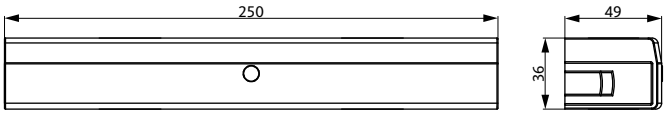
Designation	Finish	Part number
FSZ-Basis hold-open system control unit	white	K-19978-00-0-0

Contains: 1 x FSZ Basis, 1 x installation instructions, 1 x installation kit,
1 x cable gland kit, 1 x slide-in strip for trigger button, 1 x termination module

Hold-open systems – Components

RSM-H smoke switch module

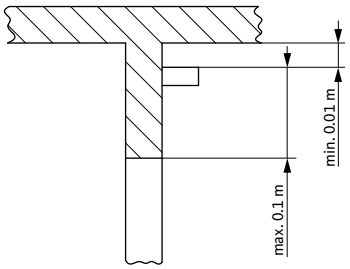




RSM-H smoke switch module

- Tested and approved by DIBt (German Institute of Building Engineering)
- For supplying electricity to all components of a hold-open system
- With integrated power supply and release mechanism
- With integrated smoke switch
- With LED status indication
  - Operation/Alarm
  - Interference
  - Soiling
- Cover in GU design, to match AD-OTS 73x cover
- Installation on the frame/lintel
- Installation height: 36 mm

Installation position



Technical data

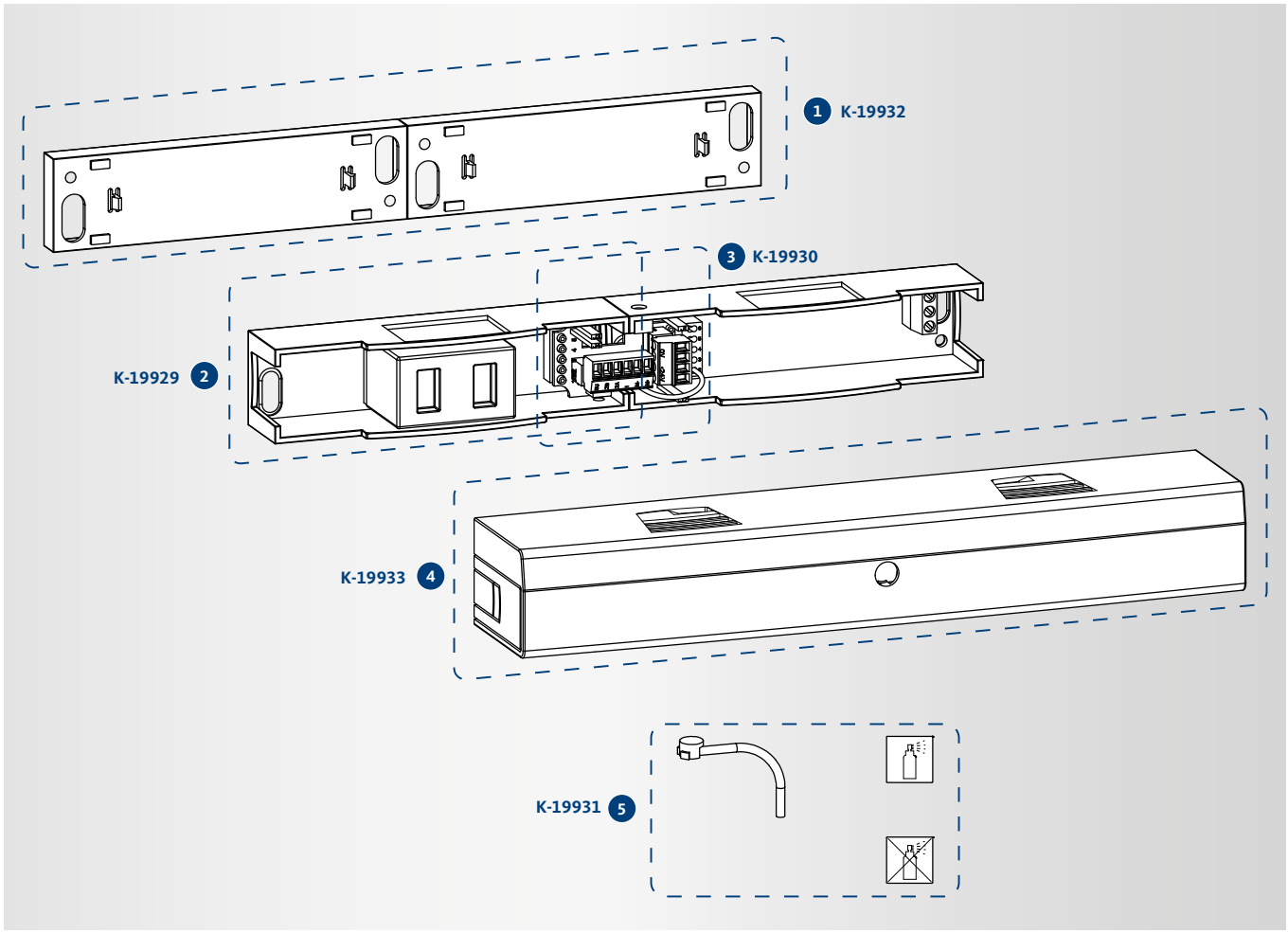
Designation	RSM-H smoke switch module
Nominal input voltage	230 V ~, 50/60 Hz
Operating voltage	24 V DC
Power consumption	27.2 VA
Current consumption	120 mA
Output current	max. 435 mA
Power output	max. 10.4 W
Ambient temperature	-20 up to +45 °C
Protection code	IP40
Protection code	II

Versions/Order numbers

Designation	Finish	Part number
RSM-H smoke switch module (incl. power supply unit and smoke switch ORS 142 W-GU)	silver	K-19058-10-0-1
	black (RAL 9005)	K-19058-10-0-6
	white (RAL 9016)	K-19058-10-0-7
	stainless steel colour	K-19058-10-0-8P
	special colour	K-19058-10-0-9

Hold-open systems – Components

RSM-H smoke switch module – Spare parts



Versions/order numbers

Item	Designation	Part number
1	RSM-H cable duct	K-19932-00-0-0

Versions/order numbers

Item	Designation	Part number
2	ORS 142 W-GU smoke switch	K-19929-00-0-0

Versions/order numbers

Item	Designation	Part number
3	VAP01 connection board	K-19930-00-0-0

Versions/order numbers

Item	Designation	Finish	Order number
4	RSM-H cover	silver	K-19933-00-0-1
		black (RAL 9005)	K-19933-00-0-6
		white (RAL 9016)	K-19933-00-0-7
		stainless steel colour	K-19933-00-0-8P
		special colour	K-19933-00-0-9

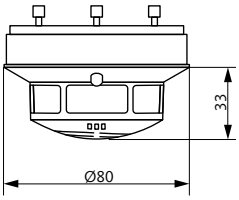
Versions/order numbers

Item	Designation	Part number
5	RSM-H accessories	K-19931-00-0-0
Contains: 1 x optical waveguide, 1 x pictographs		

Hold-open systems – Components

ORS 142 optical smoke switch for ceiling mounting





ORS 142 optical smoke switch

Suited for the early detection of smoldering fire and naked flames with smoke emission

- Smoke detection according to EN 54, part 7
- Component of a hold-open system
- Officially approved by DIBt (German Institute of Building Engineering)
- For ceiling and wall mounting
- With alarm threshold tracking and contamination indicator
- With integrated line monitoring according to EN 14637
- Sensing chamber monitoring

Technical data

Designation	ORS 142
Operating voltage	18 – 28 V DC
Current consumption (at 28 V DC): rest	22 mA
Current consumption (at 28 V DC): alarm	11 mA
Current consumption (at 28 V DC): interference	16 mA
Ambient temperature	-20 up to +60 °C
Protection code	IP42

Versions/Order numbers

Designation	Finish	Order number
ORS 142 optical smoke switch [1]	white	K-17727-00-0-7
For hold-open systems with old approval document (Z-6.5-xxxx)		
ORS 142 AT optical smoke switch [1]	white	K-20422-00-0-7

[1] Observe the DIBt application directives.

Hold-open systems – Components

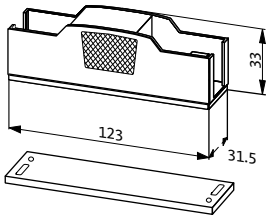
ORS 142 W optical smoke switch for wall mounting

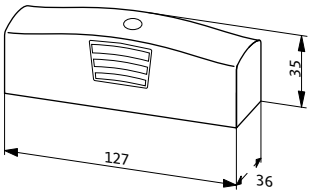


ORS 142 W optical smoke switch

Suited for the early detection of smoldering fire and naked flames with smoke emission

- Smoke detection according to EN 54, part 7
- Component of a hold-open system
- Officially approved by DIBt (German Institute of Building Engineering)
- As lintel-mounted smoke detector for wall mounting
- With alarm threshold tracking and contamination indicator





Technical data

Designation	ORS 142 W
Operating voltage	18 – 28 V DC
Current consumption (at 28 V DC): rest	22 mA
Current consumption (at 28 V DC): alarm	11 mA
Current consumption (at 28 V DC): interference	16 mA
Ambient temperature	-20 up to +75 °C
Protection code (with housing top part)	IP40

Versions/order numbers

Designation	Finish	Order number
ORS 142 W optical smoke switch [1] **with cover**	silver	K-17495-00-0-1
	white	K-17495-00-0-7
For hold-open systems with old approval document (Z-6.5-xxxx)		
ORS 142 W AT optical smoke switch [1] **without cover**		K-20423-00-0-0

[1] Observe the DIBt application directives.

Hold-open systems – Components

Optical smoke switch – Mounting base



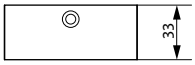
ORS 143 A surface-mounted base

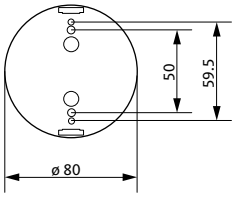
Surface-mounted base for ORS 142 optical smoke switch

Suitable for ceiling mounting in dry rooms

Versions/Order numbers

Designation	Finish	Order number
ORS 143 A surface-mounted base	white	K-17728-00-0-7







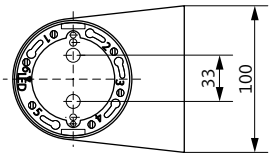
ORS 143 W mounting base

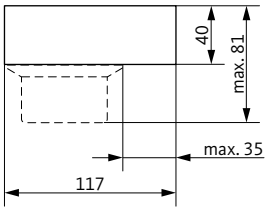
Mounting bases for ORS 142 optical smoke switch

Suitable for wall mounting in dry rooms in conjunction with ORS 143 A mounting base

Versions/Order numbers

Designation	Finish	Order number
ORS 143 W mounting base	white	K-17494-00-0-7

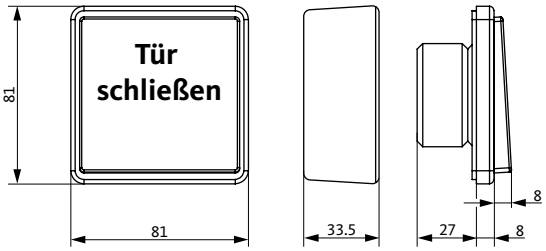




Hold-open systems – Components

Manual release push-button





General product information

It must be possible to release each hold-open device by hand without the release function being affected.

This manual release mechanism must be situated in the immediate vicinity of the connection without being concealed by the door leaf as it is held open.

For hold-open systems equipped with door holding magnets and hold-open systems equipped with free-swing devices it is imperative to use a manual release push-button.

HAT 02 AP/UP manual release push-button

- For the manual release of hold-open devices (door holding magnets, electromechanical hold-open devices) in accordance with the directives of the German Institute of Building Engineering (DIBt)
- For surface and flush mounting

Technical data

Designation	HAT 02 AP/UP manual release push-button
Contact type	Opener
Switching voltage	30 V DC
Switching current	1 A
Protection code	IP44

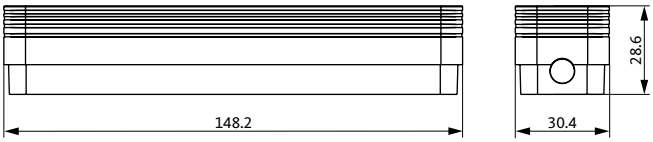
Versions/Order numbers

Designation	Part number
HAT 02 AP/UP manual release push-button	K-17492-00-0-7

Hold-open systems – Components

155 F radio system





FM 155 F radio module

The radio module is part of the 155 F radio system and can only be operated in the system. Within the system, the radio module acts as a gateway and forms the interface between the radio system and the wired system.

- Visual status indication
- Optional line monitoring

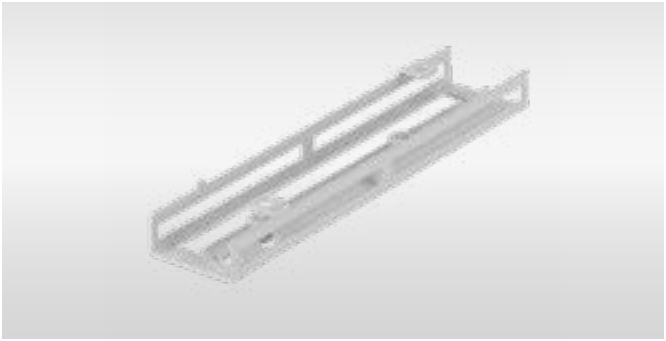
Technical data

Designation	FM 155 F radio module
Operating voltage	18–28 V DC
Current consumption	
Normal case	typ. 10.8 mA, max. 13 mA
In case of alarm	typ. 1.2 mA, max. 3 mA
In case of fault	typ. 0.8 mA, max. 3 mA
Relay	
Switching voltage	max. 30 V DC
Switching current (permanent)	max. 1 A DC
Switching current (short-term, max. 200 µs)	max. 10 A DC
Switching capacity	max. 30 W
Max. permissible power output of the hold-open system control unit	< 100 W
Line monitoring	43 kΩ, can be switched off
Operating and storage temperature (without condensation)	-30 °C to +70 °C
Ambient conditions air humidity (continuous, without condensation)	
at ≤ 34 °C	10 ... 95 % rF
at > 34 °C	min. 10 % rF, max. 35 g/m³
Protection code	IP40

Versions/Order numbers

Designation	Finish	Part number
FM 155 F radio module	silver	K-21489-00-0-1

FM 155 F mounting bracket for frame mounting



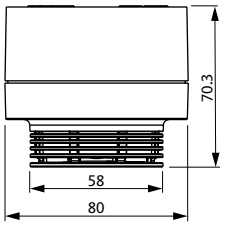
Versions/order numbers

Designation	Finish	Part number
Mounting bracket for FM 155 F radio module for frame mounting	silver	K-21492-00-0-1

Hold-open systems – Components

155 F radio system





ORS 155 F radio smoke switch

The radio smoke switch acts as a fire detector in hold-open systems on fire and smoke-protection barriers. It is part of the 155 F radio system and can only be operated in the system.

- Optical smoke detection
- Pollution compensation
- Battery life of up to 8 years
- Visual status indication

Technical data

Designation	ORS 155 F radio smoke switch
Functional principle	scattered light
Response threshold for smoke	in accordance with EN 54-7
Operating voltage (Lithium battery pack)	3 V DC
Battery life	typically 8 years
Operating temperature (without condensation)	-30 °C to +55 °C
Storage temperature	-10 °C to +45 °C
Ambient conditions air humidity (continuous, without condensation)	
at ≤ 34 °C	10 ... 95 % rF
at > 34 °C	min. 10 % rF, max. 35 g/m³
Protection code	IP42

Versions/Order numbers

Designation	Finish	Part number
ORS 155 F radio smoke switch	white	K-21490-00-0-7

Hold-open systems – Components

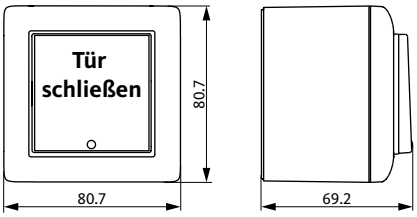
155 F radio system



HAT 155 F AP manual release push-button

The HAT 155 F AP manual radio release push-button is used to manually release hold-open systems on fire and smoke protection barriers. The manual release push-button is part of the 155 F radio system and can only be operated in the system.

- Flexible installation
- Compatible with standard switch programmes
- For surface-mounted mounting



Technical data

Designation	HAT 155 F AP manual radio release push-button
Operating voltage (Lithium battery pack)	3 V DC
Battery life	typically 8 years
Operating temperature (without condensation)	-30 °C to +70 °C
Storage temperature	-10 °C to +45 °C
Ambient conditions air humidity (continuous, without condensation)	
at ≤ 34 °C	10 ... 95 % rF
at > 34 °C	min. 10 % rF, max. 35 g/m³
Protection code	IP20

Versions/Order numbers

Designation	Part number
HAT 155 F AP manual radio release push-button	K-21491-00-0-7

Hold-open systems – Components

Hold-open magnets

General product information

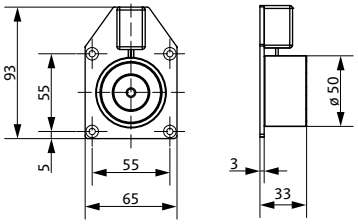
Hold-open magnets are electrical hold-open devices which hold fire and smoke protection doors open as part of a hold-open system. Hold-open magnets operate according to the closed-circuit principle; this means that if fire breaks out, the power is cut off via smoke protection switches or manual release push-buttons. The hold-open magnet is therefore de-energised and the door is safely closed by the door closer.

- **Technical data (for all subsequent variants)**
  - Operating voltage: 24 V DC
  - Current consumption: 63 mA
  - Holding force: 490 N
  - Power consumption: 1.5 W
  - Protection code: IP20
- Officially approved by the German Institute of Building Engineering (DIBt) according to the directives for hold-open systems
- Depending on the application, mounting on the wall, floor or ceiling behind the door is carried out
- Each magnetic clamp has a corresponding armature plate mounted on the door leaf
- Hold-open magnets are controlled and monitored by the RSM-H smoke switch module

Hold-open systems – Components

Hold-open magnets with 490 N holding force





Hold-open magnet

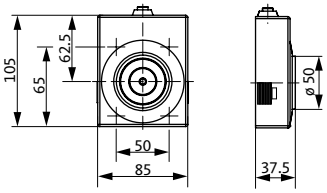
Standard variant with steel base plate

- Surface-mounted version
- Wall mounting
- With concealed terminal clamp

Versions/Order numbers

Order number
K-17483-00-0-0





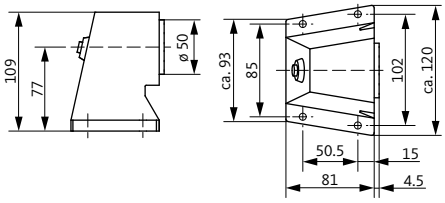
Hold-open magnet

- Surface-mounted version
- Wall mounting
- With housing and interrupter

Versions/Order numbers

Order number
K-17485-00-0-0



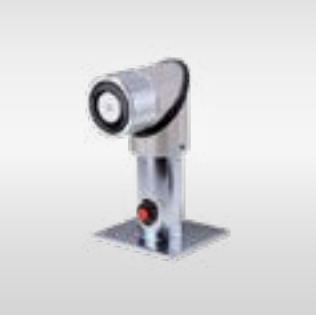


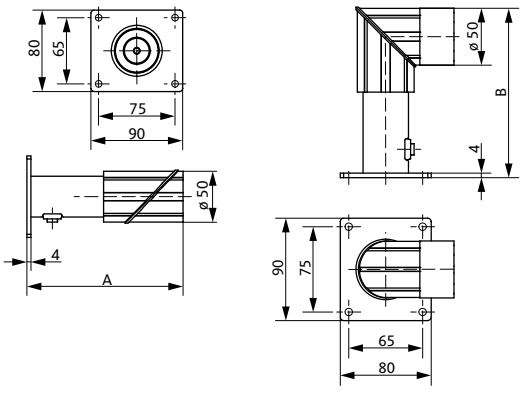
Hold-open magnet

- Floor mounting
- Aluminium housing
- With interrupter

Versions/Order numbers

Order number
K-17487-00-0-0





Hold-open magnet

with aluminium swivel head

- Surface-mounted version
- Wall and floor mounting
- With spacer, switch and pivotable magnetic head (90°)

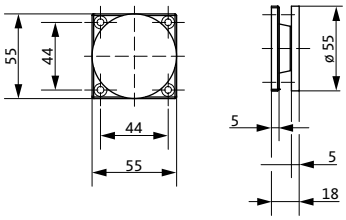
Versions/Order numbers

Dimension A	Dimension B	Order number
185	150	K-17486-00-0-0
335	300	K-17486-01-0-0

Hold-open systems – Components

Armature plates





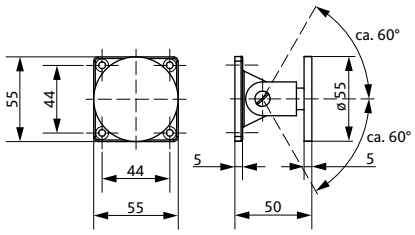
Armature plate
Standard model

- Mounted on mounting plate
- Spring-loaded to ensure a planar contact to the door holding magnet

Versions/Order numbers

Order number
K-17488-00-0-0





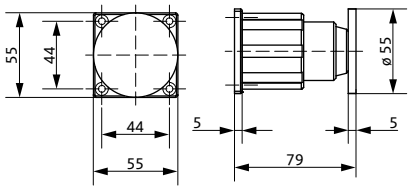
Armature plate
with joint

- Mounted on mounting plate
- With angle adjustment, pivoting area approx. 2 x 60 °

Versions/Order numbers

Order number
K-17489-00-0-0





Armature plate
with spring

- Mounted on mounting housing
- With cushion spring to create a soft, spring loaded stop for heavy doors

Versions/Order numbers

Order number
K-17490-00-0-0

Hold-open systems – Components

Test log book, test gas



Log book for hold-open systems

The test log book contains:

- Inspection sticker
- Safety sticker for fire and smoke protection doors
- Acceptance report and certificate
- Checklists for periodic monitoring

Versions/Order numbers

Designation	Order number
Log book for hold-open systems	K-18097-00-0-0
Safety sticker/inspection sticker for hold-open systems	K-18529-00-0-0



Test gas

- To perform a quick functional test on smoke switches
- To spray directly in the smoke chamber
- Non-inflammable
- Storage life: 3 years
- Contains: 250 ml

Versions/Order numbers

Designation	Order number
Test gas for smoke switches	K-17497-00-0-0

Acceptance test

of hold-open systems for fire protection doors

1. General information

The manufacturer must observe all currently valid regulations, directives, standards, laws and the corresponding approval notices.

DIN EN 14637, DIN EN 14677, "Directives for hold-open systems" and comments, German Institute of Building Technology. DIN 18650, EN 179, EN 1125, EltVTR (German directive for electrical locking systems on escape route doors), among others

2. Information for the installer

After a hold-open system has been installed at its location of use and is ready for operation, an acceptance test is carried out to ensure that it functions correctly and has been properly installed.

The acceptance test may be carried out only by specialists from the manufacturer of release and/or hold-open devices, by specialists who have been authorised by the manufacturer, or by specialists from a designated testing centre.

"Specialists who have been authorised by the manufacturer" are those who have been named and authorised by the manufacturer to competently put hold-open systems into operation or to perform tests and maintenance.

We can support you with our unique know-how to ensure a professional start-up. Further information about expert seminars is available from
http://www.g-u.com

After the acceptance test has been successfully completed, the following documents must be handed over to the operator:

- Acceptance certificate / log book with checklists
- Assembly instructions / operating instructions

The expert is also obliged to inform the operator with regard to the following issues:

- Monthly performance testing
- Annual check
- Annual maintenance
- Documentation obligation
- Warranty that ensures system remains operational at all times
- Retention obligation for documents

3. Information for the operator

The operator must ensure that the hold-open system is always kept in good working order and test the hold-open system **at least once a month** to make sure that it is **working correctly.**

The operator is also obliged to carry out or arrange tests to ensure that **all devices interact correctly and without faults** and to carry out **maintenance** on an **annual basis** unless a shorter term is specified in the approval notice.

During this testing and maintenance, the detectors are checked and maintenance of all devices, also the hold-open devices, is carried out.

These tests and maintenance may only be carried out by a specialist or qualified person.

The scope, result and timing of periodic monitoring must be recorded. This applies both for monthly monitoring and also for annual inspection and maintenance. All records must be stored at the operator's premises as they are required as evidence for the authorities, in the event of fire inspections and possibly when assessing damage caused by remote action, for example.

The following documents must be kept in a safe pace by the operator

- Acceptance certificates / log book

The following points must be observed by the operator:

- Monthly performance testing
- Annual check
- Annual maintenance
- Documentation obligation
- Warranty that ensures system remains operational at all times
- Retention obligation for documents

Accessories



Table of contents

Accessories

OTS 73x pivot block	from page 234
SRA door-leaf coordinator, surface-mounted	from page 236
MNK 8642 carrier bar	from page 238
Cable links	from page 242
Wall-mounted door stop	from page 243
Door holder	from page 244

OTS 73x pivot block



Product characteristics

- Free-swing pivot block – without valve functions, spring assembly, oil

Versions/Order numbers

Designation	Order number
OTS 73x pivot block	K-19051-00-0-1

Note: supplied without covers.

Applications

At double-leaf doors in combination with a swing-door drive, when also using the SRI-OTS 73x/SRI-OTS 73x BG door-leaf coordinator

- Mounting of swing-door drive on active leaf
- Mounting of pivot block on the active leaf on the side opposite the swing-door drive
- Mounting of the OTS 73x door closer on the inactive leaf

Alternative solution: with 1-leaf doors, if a doorstop cannot be used, in escape routes for example (tripping hazard)
- Use as opening restriction without door closer function for light swing doors
- Combination with opening restrictor (ÖB) and standard slide rail (GS)

Please note: in many application situations, high loads for example, this solution cannot replace the function of the door stopper!

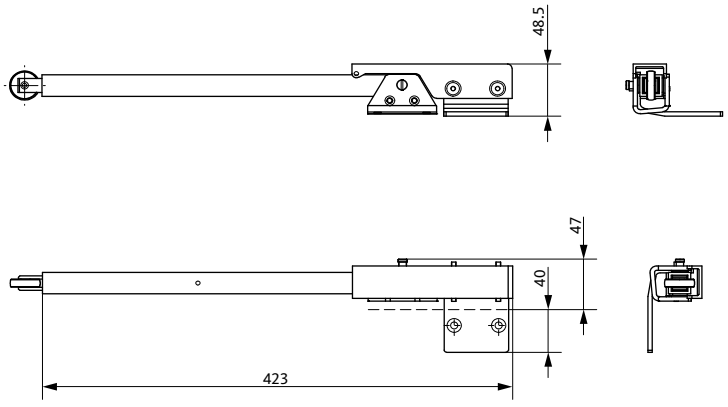
Components | Area of application: Pivot block in combination with swing-door drive	Page
OTS 73x pivot block	234
OTS 73x door closer	22
AD-OTS 73x cover	23
GS SRI-OTS 73x or GS SRI-OTS 73x BG slide rail set	48
MP mounting plate	34

Components | Area of application: Pivot block as opening restrictor	Page
OTS 73x pivot block	234
AD-OTS 73x cover	23
GS slide rail	26
ÖB opening restrictor	35
MP Mounting plate	34

Door-leaf coordinator, surface-mounted (SRA)

tested in accordance with EN 1158





Product characteristics

- For use on double-leaf doors
- The mechanical door-leaf coordinator ensures the correct closing sequence of active and passive door leaves, even if the user does not close them in the correct sequence
- **Function:** the arm of the door-leaf coordinator automatically moves forward as the inactive leaf opens. When closing, the active leaf is held open until the inactive leaf pushes the arm into its initial position thus allowing the active leaf to close
- The door-leaf coordinator can be used in fire and smoke protection doors if it is listed in the approval notice or test certificate
- Elegant design due to short control arm and cover
- Easy to install as only two elements must be fixed
- Function is sound damping and material-friendly

Versions/Order numbers

Designation	Description	Order number / Finish	
		silver	dark bronze
Door-leaf coordinator (SRA)	For use on timber and steel doors	B 8641 0000	B 8641 0005
	For use on narrow stile doors (T 30)	B 8641 0100	B 8641 0105

Application ranges

- 2-leaf fire and smoke protection doors
- 2-leaf swing doors
- Active leaf widths of 700 mm up to 1500 mm [1]
- Any inactive leaf widths
- DIN left and DIN right-handed
- Standard mounting on the hinge-side

[1] Depending on door leaf thickness.

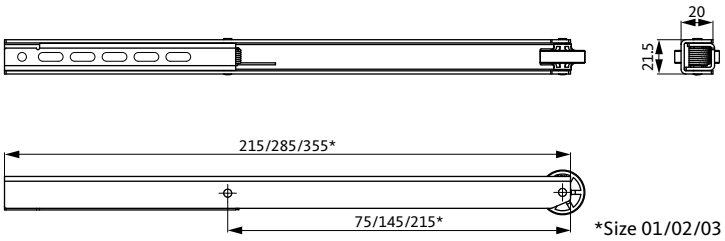
MNK 8642 carrier bar

for double-leaf doors in escape and rescue routes / fire protection doors

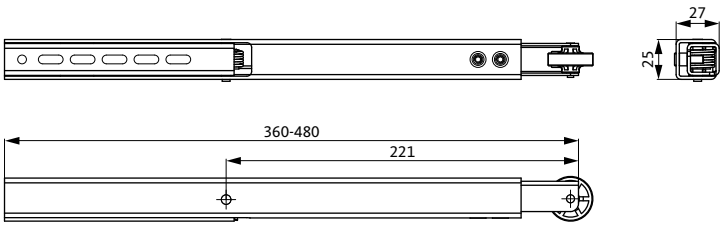


Product characteristics

- **Function:** the carrier bar ensures that when the door is opened via the inactive leaf (in emergency situations), the active leaf is carried at least as far as the beginning of the action range of the door-leaf coordinator (SRI/SRA)
- Surface-mounted mounting on inactive leaf
- With folding arm, folding mechanism concealed
- Roller buffers made of stable PVC
- Available in three sizes and also as steplessly adjustable variant [1]



MNK 8642 carrier bar – K-17897-XX-0-X



MNK 8642 carrier bar, adjustable – K-19057-00-0-X

Versions/Order numbers

Designation	Size	Finish	Order number
MNK 8642 carrier bar	01 length = 215 mm	silver galvanised	K-17897-01-0-1R
		silver	K-17897-01-0-1
		black (RAL 9005)	K-17897-01-0-6
		white (RAL 9016)	K-17897-01-0-7
		special colour	K-17897-01-0-9
	02 length = 285 mm	silver galvanised	K-17897-02-0-1R
		silver	liniK-17897-02-0-1
		black (RAL 9005)	K-17897-02-0-6
		white (RAL 9016)	K-17897-02-0-7
		special colour	K-17897-02-0-9
	03 length = 355 mm	silver galvanised	K-17897-03-0-1R
		silver	K-17897-03-0-1
		black (RAL 9005)	K-17897-03-0-6
		white (RAL 9016)	K-17897-03-0-7
		special colour	K-17897-03-0-9
MNK 8642 carrier bar, adjustable	adjustable length 360–480 mm	silver galvanised	K-19057-00-0-1R
		silver	K-19057-00-0-1
		black (RAL 9005)	K-19057-00-0-6
		white (RAL 9016)	K-19057-00-0-7
		special colour	K-19057-00-0-9

Run-up block for carrier bar

For supporting the opening function of the carrier bar with special profiles and for avoiding restraint of the active and inactive leaf

Designation	Size	Finish	Order number
Run-up block for carrier bar height = 20 mm	00	silver	K-18871-00-0-1
		black (RAL 9005)	K-18871-00-0-6
		white (RAL 9016)	K-18871-00-0-7
Run-up block for carrier bar height = 37 mm	37	silver	K-18871-37-0-1
		black (RAL 9005)	K-18871-37-0-6
		white (RAL 9016)	K-18871-37-0-7

Application ranges

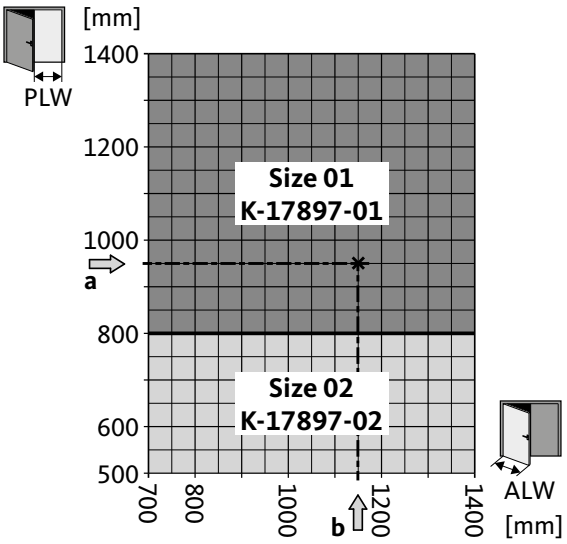
- 2-leaf rebated fire and smoke protection doors if the carrier bar is listed in the approval notice or test certificate
- 2-leaf doors in escape and rescue routes (escape doors)
- DIN left and DIN right-handed

[1] Depending on door width and chosen door-leaf coordinator (SRA/SRI).

MNK 8642 carrier bar

Application diagrams when combined with SRA door-leaf coordinator

Application diagram when combined with SRA door-leaf coordinator (surface-mounted)



Case study:

- Passive leaf width (PLW) = 950 mm (a)
- Active leaf width (ALW) = 1150 mm (b)

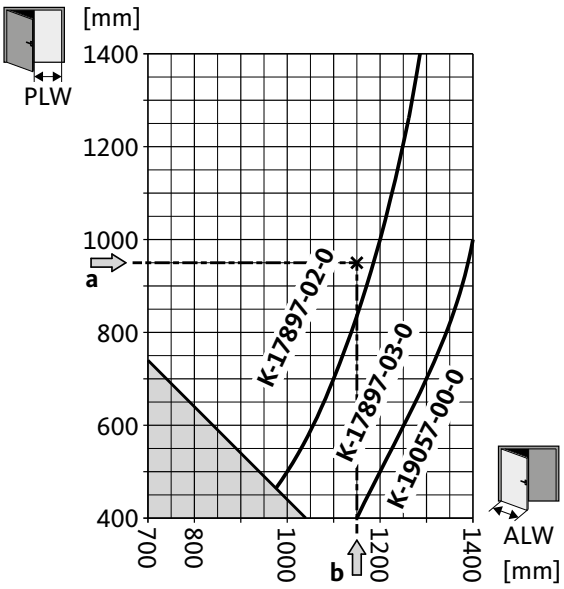
MNK 8642 carrier bar
Size 01 K-17897-01-0-X

MNK 8642 carrier bar

Application diagrams when combined with SRI door-leaf coordinator

Application diagrams when combined with SRI-OTS 73x door-leaf coordinator

Hinge-side

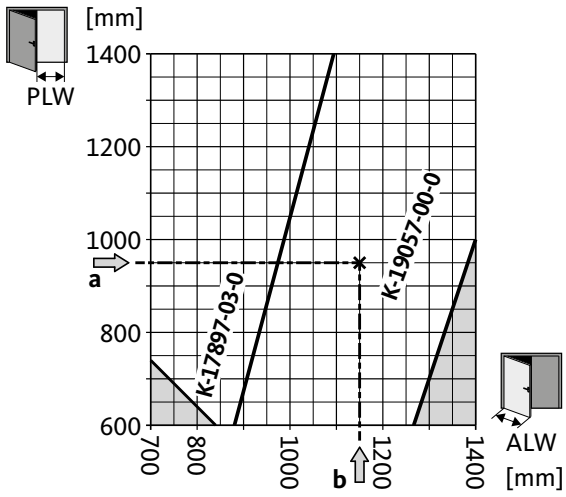


Case study:

- Passive leaf width (PLW) = 950 mm (a)
- Active leaf width (ALW) = 1150 mm (b)

MNK 8642 carrier bar
Size 02 K-17897-02-0-X

Side opposite to hinges

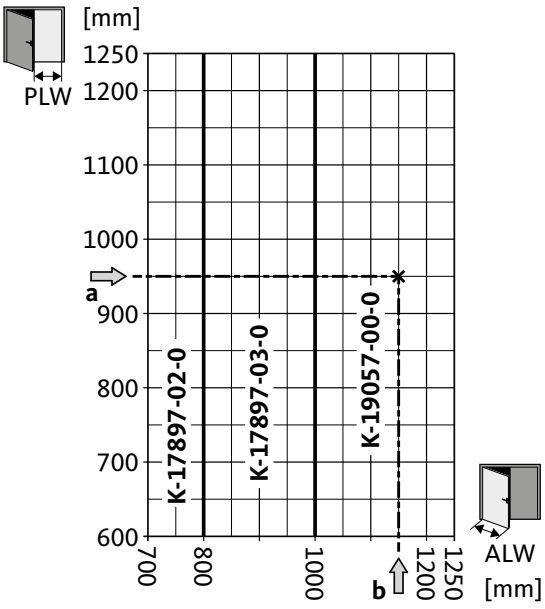


Case study:

- Passive leaf width (PLW) = 950 mm (a)
- Active leaf width (ALW) = 1150 mm (b)

MNK 8642 carrier bar, adjustable
K-19057-00-0-X

Application diagram when combined with SRI-VTS 73x door-leaf coordinator



Case study:

- Passive leaf width (PLW) = 950 mm (a)
- Active leaf width (ALW) = 1150 mm (b)

MNK 8642 carrier bar, adjustable
K-19057-00-0-X

Cable links



Cable links, surface-mounted

Versions/Order numbers

Designation	Length [mm]	Finish	Order number
Cable link, surface-mounted	approx. 600	black	K-18984-00-0-6

Versions/order numbers

Designation	Length [mm]	Finish	Order number
Cable link, surface-mounted (not shown)	approx. 500	white	B 5527 0100



Cable link, concealed

Versions/Order numbers

Designation	Dimensions [mm]	Inner diameter [mm]	Opening [°]	Order number
Cable link, concealed Installation channel on one side	24 x 260 x 17	10	up to 100	6-29854-00-0-0
	24 x 280 x 17	10	up to 180	6-29942-00-0-0
	20 x 350 x 15	8	up to 180	6-30809-00-0-0
Cable link, concealed Without installation channel	flexible length = 370	10	up to 180	9-39237-00-0-0
	flexible length = 241	8	up to 180	9-41419-00-0-0



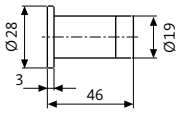
Cable link, detachable, concealed

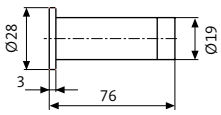
Versions/Order numbers

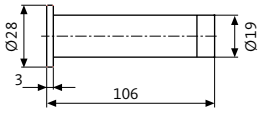
Designation	Dimensions [mm]	Order number
Cable link, concealed Installation channel on one side, 10-pin	24 x 519 x 17.5	6-35194-00-0-8
Cable link, concealed Without installation channel, 10-pin	24 x 490 x 18.5	6-35193-00-0-8

Wall-mounted door stop









B 7122 wall-mounted door stop

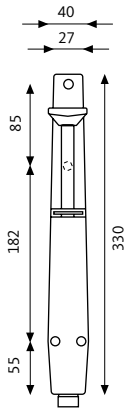
stainless steel, including fixing accessories

Versions/Order numbers

Designation	Dimensions [mm]	Order number
B 7122 wall-mounted door stop	19 x 46	B 7122 0005
	19 x 76	B 7122 0006
	19 x 106	B 7122 0007

Door holder



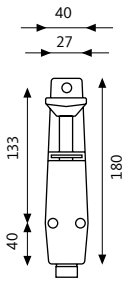


B 3934 door holder, large

Versions/Order numbers

Designation	Travel	Finish	Order number
B 3934 door holder, large	100	Aluminium F1	B 3934 0109
		Al UC 5	B 3934 0115
		Aluminium white	B 3934 0117





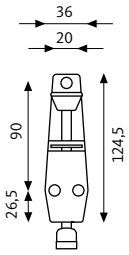
B 3934 door holder, medium

Versions/Order numbers

Designation	Travel	Finish	Order number
B 3934 door holder, medium	30	Aluminium F1	B 3934 0101
		Al UC 5	B 3934 0137
		Aluminium white	B 3934 0139

Door holder



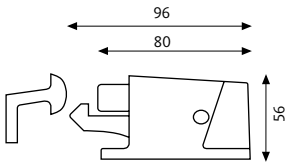


B 3933 door holder, small

Versions/Order numbers

Designation	Travel	Finish	Order number
B 3933 door holder, small	30	Aluminium F1	B 3933 0101
		Al UC 5	B 3933 0137
		Aluminium white	B 3933 0139





B 6944 door holder

Versions/Order numbers

Designation	Finish	Order number
B 6944 door holder	Aluminium F1	B 6944 0007

Additional information



Collection Photographer's Choice RF / Getty Images

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Installation instructions / Installation drawings / Declarations of performance

General

Designation	Document no.
Product information OTS/UTS/VTS	0.46884

Surface-mounted OTS overhead door closers with slide rail

OTS 73x series				
Designation	**Installation instructions**	**Installation drawing**	**Declaration of performance***	
Door closer with slide rail OTS 735	0.45969	0.45942	0.46669	EN 1154
Door closer with slide rail OTS 735 BG	0.45979	0.45942	0.46669	EN 1154
Door closer with slide rail OTS 736	0.45969	0.45942	0.46799	EN 1154
Door closer with slide rail OTS 736 BG	0.45979	0.45942	0.46799	EN 1154
Door closer with slide rail OTS 736 SV	0.46009	0.45942	–	
Door closer with slide rail OTS 736 SV BG	0.46010	0.45942	–	
Door closer with slide rail OTS 735 FL	0.46542	–	0.47148	EN 1155
Door closer with slide rail OTS 735 FL BG	0.46543	–	0.47148	EN 1155
Door closer with slide rail OTS 736 FL	0.46542	–	0.46801	EN 1155
Door closer with slide rail OTS 736 FL BG	0.46543	–	0.46801	EN 1155
Slide rail set GS FE-OTS 73x	–	0.47032	–	
Slide rail set GS FER-OTS 73x	–	0.47033	–	
Slide rail set GS SRI-OTS 73x	–	0.47034	–	
Slide rail set GS FE-SRI-OTS 73x	–	0.47035	–	
Slide rail set GS FER-SRI-OTS 73x	–	0.47036	–	
Cover AD-OTS 73x	0.45996	–	–	
Mechanical hold-open device FM-OTS 73x	0.46007	–	–	
Electromechanical hold-open device FE-OTS 73x	0.46006	–	0.46803	EN 1155
Door-leaf coordinator SRI-OTS 73x	0.46527	–	0.46805	EN 1158
Door-leaf coordinator SRI-OTS 73x BG	0.46538	–	0.46805	EN 1158
Smoke switch module RSM-H	0.46838	–	–	
Opening restrictor ÖB	0.46716	–	–	
Flat plate for OTS 73x	0.46567	–	–	
Angular lintel bracket for OTS 73x	0.46568	–	–	
Clamping plate for OTS 73x	0.46569	–	–	
Carrier bar MNK 8642	0.46521	–	–	
Adjustable carrier bar MNK 8642	0.46863	–	–	
Axle extension for sliding block OTS 73x	0.46903	–	–	
OTS 634				
Designation	**Installation instructions**	**Installation drawing**	**Declaration of performance***	
Door closer with slide rail OTS 634	0.44860	0.45624	0.48007	EN 1154
Mounting plate for slide rail	0.45323	–	–	
Mechanical locking unit	0.45368	–	–	
Opening restrictor, mechanical	0.45664	–	–	
Combined angular bracket	0.45562	–	–	
Clamping plate for all-glass doors	0.45563	–	–	

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Installation instructions / Installation drawings / Declarations of performance

Surface-mounted OTS overhead door closers with slide rail

OTS 634x				
Designation	**Installation instructions**	**Installation drawing**	**Declaration of performance***	
Door closer with slide rail OTS 634x	0.47730	–	0.48007	EN 1154
Slide rail set GS SRI-OTS 73x	–	0.47034	–	
Slide rail set GS FE-SRI-OTS 73x	–	0.47035	–	
Slide rail set GS FER-SRI-OTS 73x	–	0.47036	–	
Door-leaf coordinator SRI-OTS 73x	0.46527	–	0.46805	EN 1158
Door-leaf coordinator SRI-OTS 73x BG	0.46538	–	0.46805	EN 1158
Electromechanical hold-open device FE-OTS 73x	0.46006	–	0.46803	EN 1155
Mechanical hold-open device FM-OTS 73x	0.46007	–	–	
Smoke switch module RSM-H	0.46838	–	–	
Opening restrictor ÖB	0.46716	–	–	
Flat plate for OTS 73x	0.46567	–	–	
Combined angular bracket	0.45562	–	–	
Clamping plate for all-glass doors	0.45563	–	–	
Carrier bar MNK 8642	0.46521	–	–	
Adjustable carrier bar MNK 8642	0.46863	–	–	
Axle extension for sliding block OTS 73x	0.46903	–	–	
OTS 633 N				
Designation	**Installation instructions**	**Installation drawing**	**Declaration of performance***	
Door closer with slide rail OTS 633 N	0.49089	0.49061	0.49164	EN 1154
Mechanical locking unit	0.45368	–	–	
Opening restrictor, mechanical	0.45664	–	–	
OTS 430 G				
Designation	**Installation instructions**	**Installation drawing**	**Declaration of performance***	
Door closer with slide rail OTS 430 G	0.45375	0.45620 (NM BS) 0.45621 (KM BG)	–	
Door closer with slide rail OTS 430 G BC	0.45375	–	–	
Mechanical hold-open device MF-EA	0.45902	–	–	
Opening restrictor	0.45424	–	–	
Cover	0.45769	–	–	
OTS 210 G				
Designation	**Installation instructions**	**Installation drawing**	**Declaration of performance***	
Door closer with slide rail OTS 210 G	0.45375	0.45620 (NM BS) 0.45621 (KM BG)	–	
Mechanical hold-open device MF-EA	0.45902	–	–	
Opening restrictor	0.45424	–	–	
Cover	0.45769	–	–	

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Installation instructions / Installation drawings / Declarations of performance

Surface-mounted OTS overhead door closers with scissor-action arm

OTS 536				
Designation	**Installation instructions**	**Installation drawing**	**Declaration of performance***	
Scissor-action arm door closer OTS 536	0.45431	0.45834 (NM BS) 0.45835 (KM BG)	0-48958	EN 1154
Scissor-action arm door closer OTS 536 SV	0.45667	0.45834 (NM BS) 0.45835 (KM BG)	–	
Hold-open arm E/A	0.45661	–	–	
Combined angular bracket	0.45562	–	–	
Clamping plate for all-glass doors	0.45563	–	–	
Angular bracket for parallel arm assembly	0.45081	–	–	
Axle extension	0.45652	–	–	
OTS 430				
Designation	**Installation instructions**	**Installation drawing**	**Declaration of performance***	
Scissor-action arm door closer OTS 430	0.45360	0.45618 (NM BS) 0.45619 (KM BG)	0-48959	EN 1154
Scissor-action arm door closer OTS 430 BC	0.45359	–	0-48960	EN 1154
Hold-open arm E/A	0.45661	–	–	
Angular lintel bracket	0.45994	–	–	
Clamping plate for all-glass doors	0.45753	–	–	
Flat plate for segmental arch head doors	0.45997	–	–	
Cover	0.45769	–	–	
OTS 210				
Designation	**Installation instructions**	**Installation drawing**	**Declaration of performance***	
Scissor-action arm door closer OTS 210	0.45361	0.45616 (NM BS) 0.45617 (KM BG)	–	
Hold-open arm E/A	0.45661	–	–	
Angular lintel bracket	0.45994	–	–	
Clamping plate for all-glass doors	0.45753	–	–	
Flat plate for segmental arch head doors	0.45997	–	–	
Cover	0.45769	–	–	
OTS 140				
Designation	**Installation instructions**	**Installation drawing**	**Declaration of performance***	
Scissor-action arm door closer OTS 140	0.45363	0.45613	–	
Mechanical hold-open arm	0.45348			
OTS 134				
Designation	**Installation instructions**	**Installation drawing**	**Declaration of performance***	
Scissor-action arm door closer OTS 134	0.47985	–	0.48408	EN 1154

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Installation instructions / Installation drawings / Declarations of performance

Concealed door closer VTS

VTS 73x series					
Designation	**Installation instructions**	**Installation drawing**		**Declaration of performance***	
		Timber	**Metal**		
Concealed door closer VTS 735	0.45990	0.45947	0.47114	0.46809	EN 1154
Concealed door closer VTS 735/4	0.47386	–	–	0.46809	EN 1154
Concealed door closer VTS 735 FL	0.47031	0.48925	–	0.46811	EN 1154/EN 1155
Concealed door closer VTS 735/4 FL	0.48472	0.48928	–	0.46811	EN 1154/EN 1155
Concealed door closer VTS 736	0.48703	0.45947	0.47114	0.48957	EN 1154
Slide rail set GS FE VTS 73x (single-leaf)	–	0.47037	0.47115	–	
Slide rail set GS SRI-VTS 73x (double-leaf)	–	0.47038	0.47116	–	
Slide rail set GS FE SRI-VTS 73x (double-leaf)	–	0.47039	0.47117	–	
Fire protection cover	0.47387	–	–	–	
Smoke switch module RSM-H	0.46838	–	–	–	
Standard slide rail GS VTS 73x 20x12	0.45980	–	–	–	
Functional slide rail GS VTS 73x 26x32	0.45998	–	–	–	
Mechanical hold-open device FM-VTS 20x12	0.46797	–	–	–	
Mechanical hold-open device FM-VTS 26x32	0.46008	–	–	–	
Electromechanical hold-open device FE-VTS 73x 26x32	0.46001	–	–	0.46813	EN 1155
Door-leaf coordinator SRI-VTS 73x	0.46000	–	–	0.46815	EN 1158
Opening restrictor ÖB-VTS 73x 20x12	0.47045	–	–	–	
Opening restrictor ÖB-VTS 73x 26x32	0.47046	–	–	–	
Fixing plate AP-VTS 73x	0.45999	–	–	–	

VTS 634					
Designation	**Installation instructions**	**Installation drawing**		**Declaration of performance***	
		Timber	**Metal**		
Concealed door closer VTS 634	0.47775	0.48783	0.48782	0.48407	EN 1154
Mechanical hold-open device FM-VTS 634	0.48577				
Opening restrictor ÖB-VTS 634	0.48589				

Rebate door closers

Rebate door closer 20/24			
Designation	**Installation instructions**	**Installation drawing**	
		Timber	**Metal**
Rebate door closer 20/24	0.45411	0.45411 (flush interior door) 0.43722 (flush interior door with steel door frame) 0.43736 (rebated door)	0.43723 (Schüco profile system)

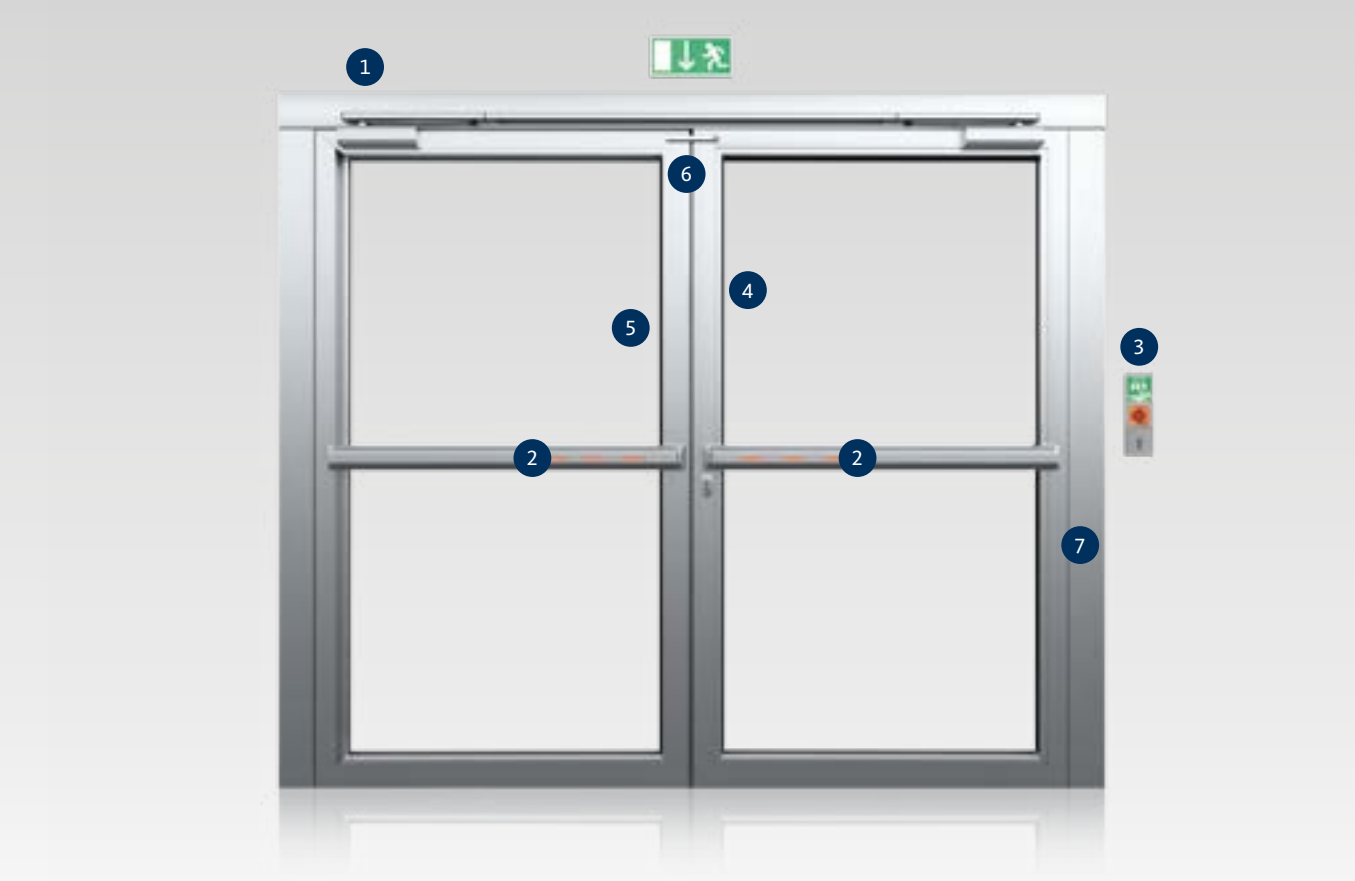
Floor springs

UTS 840			
Designation	**Installation instructions**	**Installation drawing**	**Declaration of performance***
Floor spring UTS 840	0.45402	–	–

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Doors in escape and rescue routes

Components



Suggested components

1. OTS 736 surface-mounted overhead door closers with slide rail and GS SRI-OTS 73x slide rail set
2. EVT electrically-locking Touch Bar
3. FTNT10 escape door terminal
4. SECURY 19 multi-point lock, self-locking, with panic function (optionally B/C/E)
5. Shoot-bolt lock series 19
6. MNK 8642 carrier bar
7. Detachable cable duct

Fire and smoke protection doors with hold-open systems

Requirements (Germany: DiBt)

Application areas

It is difficult to maintain an overview of door types and combinations owing to their sheer diversity. They vary depending on the building type, what they are used for and on other requirements which in part vary considerably. In addition to fire protection, safety, accessibility, access control, design and comfort requirements play a particularly important role.

The local building regulations (LBO) in Germany stipulate the **self-closing characteristic** for fire and smoke protection doors in particular. After all, these door assemblies must close safely during a fire to reliably prevent the spread of smoke gases and fire to other rooms and buildings. The **self-closing operation** can be unchecked using spring (pretensioned) hinges or **implemented more comfortably using door closers.**

This means that the door closer (with the designation "Door closing device with a controlled and reliable closing sequence" in applicable standards such as EN 1154) plays a central role in fire protection safety. EN 1154 (already mentioned) states the basic and additional requirements to be met by door closers. Products are also tested and approved according to this standard. EN 1158 describes extended functions such as the door leaf coordination at double-leaf doors with a defined closing sequence of active and inactive leaf. These functions are also tested in accordance with this standard.

Fire and smoke protection doors are often used together with a hold-open system. During daily operation, the system holds these doors open electrically if they are very frequently used, and only closes the leaves automatically in the event of fire to prevent the spread of smoke gases and fire. These kind of hold-open systems are primarily used in public facilities such as kindergartens, schools, hospitals, hotels and residential homes for the elderly. Modern door closers are normally used in these systems if they are required to close automatically.

Requirements for fire rated doors

- Fire and smoke protection doors are a statutory requirement.
- Barriers must close and lock automatically in the event of fire
- Single or double-leaf doors in fire-resistance classes T-30 to T-90 must resist the spread of fire and smoke to other rooms for 30 minutes or even 90 minutes, depending on the version and approval
- A lock with latch and at least one handle lever on the "active leaf" on the "inner side" is prescribed. All inactive leaves (even the smallest "inactive leaf") also require an automatically locking inactive leaf lock (linkage)
- With two-leaf doors, a door-leaf coordinator (SRI) and carrier bar (MNK) must be installed

  Omitting the use of carrier bars
  If double-leaf doors are equipped with locking systems that ensure the active leaf always reaches the minimum waiting position, it is no longer necessary to install a carrier bar
- Active leaves and passive or inactive leaves require a door closer to EN 1154. The same applies if they are "secured" via a lever-operated shoot-bolt lock
- For **fire and smoke protection doors**, the installation method and installation position are strictly prescribed. This equipment must be approved by the German Institute of Building Engineering (DIBt). The verifications of suitability for the door and guidelines of the DIBt for hold-open systems must be observed in this case. Deviations from the guidelines represent non-compliance with the intended use

A hold-open system consists of the following components:

- A power supply unit which supplies power
- At least one fire detection element for detection of smoke or heat
- One triggering device to initiate the closing operation
- One hold-open device that holds the closing barrier in position during day-to-day operation

You can find solutions for the GU hold-open systems on pages 212 – 231.

Standards at a glance

EN 1154, EN 1155 and EN 1158

Outstanding functional reliability when closing in the event of fire – compliance with the standards and test requirements

Fire or smoke protection doors must generally be self-closing. Only tested and certified door closer systems can be used for controlled closing. Certified systems with door leaf coordination are also prescribed for double-leaf fire or smoke protection doors. This ensures that the inactive leaf is closed first, followed by the active leaf. Only in this case can the required barrier be ensured.

EN 1154

This standard sets out the requirements and test methods for door closing devices with controlled closing sequence. It always applies if it must be ensured that when a swing door is opened manually, it closes again automatically and the closing action is to be hydraulically damped.

The standard has been included in the Building Rules List B Part 1 and therefore anchored in German law since 2005. It requires that inspections (MPA (material testing office in Germany), VdS (independent safety institution in Germany) are carried out as well as regular annual monitoring.

All products tested in accordance with this standard are to be classified using a 6-digit code.

DIN 18263 Part 1

Requirements for door closers with hydraulic damping.

EN 1155

This standard defines the testing requirements and conditions in relation to electrical hold-open devices for fire and smoke protection doors. The purpose of an electrically-controlled hold-open system is to ensure self-closing fire and smoke-protection doors are reliably held in the open position, yet can also be securely released as quickly as possible in the event of fire.

The required function of smoke and fire detectors differs from the standard use of fire detectors in fire alarm systems in the following respects

- If a false alarm occurs, this is of secondary importance
- The system actively minimises the risk of smoke and fire spreading
- Doors must close automatically in the event of fire
- The technology offers safety and protection to persons against dangerous smoke and fire

When the power supply is cut off, or if triggered electronically, doors equipped with a door closer must be forced shut.

EN 1158

This standard defines the test requirements and conditions for coordination of double-leaf swing doors

The test methods for separately installed door-leaf coordinators cover

- Door-leaf coordinator mechanism in the door closer
- Door-leaf coordinator mechanism integrated into the door closer with electrically-operated hold-open devices

Standards at a glance

Classification code EN 1154

EN 1154

Classification code						
EN 1154						
1	2	3	4	5	6	

1	Category of use
2	Durability
3	Size of door closer
4	Suitability for use on fire and smoke protection doors
5	Security
6	Corrosion resistance

Example: Classification code for OTS 73x

Classification code in accordance with EN 1154						
OTS 735	4	8	2/5	1	1	4
OTS 736	4	8	3/6	1	1	4

Example: Classification code for OTS 536

Classification code in accordance with EN 1154						
OTS 536	4	8	2/6	1	1	3

Category of use		
1	Grade 3	Closing from opening angle > 105°
	Grade 4	Closing from opening angle > 180°
Durability		
2	Grade 8	500 000 test cycles
Size of door closer		
3	Grade 1	Max. door leaf width 750 mm
	Grade 2	Max. door leaf width 850 mm
	Grade 3	Max. door leaf width 950 mm
	Grade 4	Max. door leaf width 1100 mm
	Grade 5	Max. door leaf width 1250 mm
	Grade 6	Max. door leaf width 1400 mm
	Grade 7	Max. door leaf width 1600 mm

Suitability for use on fire and smoke protection doors		
4	Grade 0	Not approved for use on fire/smoke protection doors
	Grade 1	Approved for use on fire/smoke protection doors
Security		
5	Grade 1	Meets the requirements with regard to safety in use
Corrosion resistance		
6	Grade 0	No defined corrosion resistance
	Grade 1	Low corrosion resistance
	Grade 2	Medium corrosion resistance
	Grade 3	High corrosion resistance
	Grade 4	Very high corrosion resistance

Standards at a glance

CEN TR 15894 and DIN 18040

Barrier-free construction is nowadays absolutely indispensable. The intensive general social discourse is indicative of this. There is a particularly strong focus on finding suitable solutions for age-appropriate and disability-friendly construction. The relevance of these topics is reflected in current statistics: in 2020 around 30 percent of the population in Germany will be above the age of 60, for example. The number of persons with a disability is around 8.6 million, which is roughly one tenth of the population.

But who, when contemplating the topic of barrier freedom, thinks of parents with children's pushchairs, the shopper with heavy bags or athlete with leg in plaster? A door which is difficult to open also presents a real challenge for them, for example.

This is why a door which is easy to open is all the more important. And a high-quality door closer that also securely closes the open door with maximum comfort makes the perfect complement.

CEN TR 15894 (in Germany DIN SPEC 1104)

The aim of DIN SPEC 1104 is to allow children, elderly and disabled people to effortlessly pass through doors. DIN SPEC 1104 recommends the use of manually actuated locking systems whose opening torque drops away sharply, which means that the opening force reduces by around 40 percent in the door opening range of 2 to 60 degrees.

DIN 18040: barrier free construction – special part 1, section 4.3.3.3

- The objective of the standard is to allow disabled, elderly and ill persons and also children equal opportunities to participate in day-to-day life. This also includes the opening of doors without having to be assisted by another person
- The standard defines the maximum operating forces required to open doors that must be equipped with a door closer as a mandatory requirement
- The maximum opening torque is 47 Nm with a door opening angle of up to 60 degrees. This value corresponds to the maximum opening torque size 3 according to the table in EN 1154
- We recommend you only use door closers with adjustable closing force
- Providing the standards are complied with, a hold-open system and free-swing door closer are normally not required
- This standard does not apply for fire protection doors
- As greater closing forces are required for fire and smoke protection doors in the event of fire, hold-open systems, free-swing door closers or electromechanical hold-open magnets, for example, should normally be used in this case

Barrier-free construction with the OTS 73x series

The DIN 18040 standard for barrier-free construction which has already been published and will be legally binding in future defines a maximum opening torque of 47 Nm for doors to which door closers must be fitted as a mandatory requirement. High-quality door closers not only satisfy these requirements, they go one step further. This is because they also satisfy the recommendation of DIN SPEC 1104 which requires a sharply dropping opening torque of 40 percent with a door opening angle of between 2 and 60 degrees. They therefore allow the door to be opened easily, especially by children, older persons and persons with disabilities. This technology increases comfort when passing through doors in public buildings and also equally in private dwellings. In this regard, DIN SPEC 1104 does not constitute a standard and is instead a technical specification which, as opposed to the DIN standard, is non-binding in character.

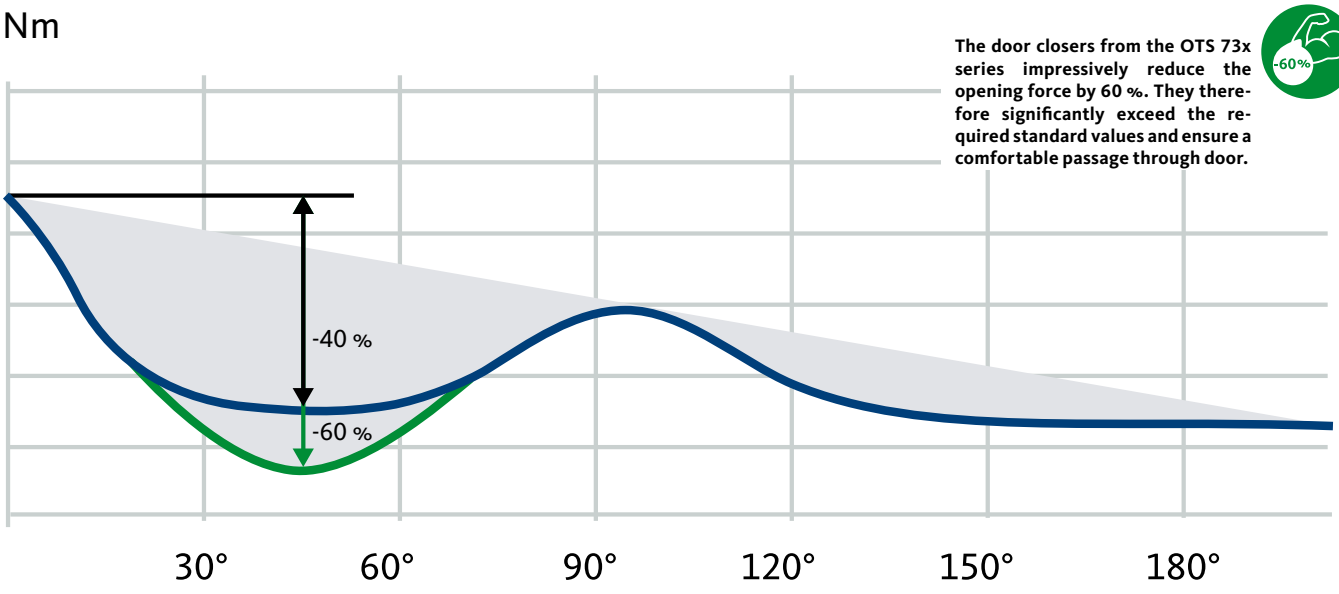
Successful solutions in barrier-free construction respond to the individual needs and requirements of the relevant user(s). For example, it may be expedient to use electrical hold-open devices to keep doors open at all times. Door closers with so-called "free-swing" function allow users to pass through the door without having to apply additional force after it has been opened once, as electricity is supplied to the door closer to keep it in the pretensioned state. In the event of fire, the initial tension in the door closer is released thus ensuring the door closes automatically and safely.

The closers are used at fire protection doors that have a conventional use on a daily basis, but must also close safely in the event of fire. They are therefore particularly suitable for projects such as hospitals, residential homes for the elderly and kindergartens.

The free-swing door closer

A door closer ensures that a door closes safely and automatically. To do this, it not only moves the door leaf into the door frame, it also ensures the latch of the lock engages reliably in the striker – even when encountering a gentle wind resistance. Doors must be closed in a controlled manner, especially in the event of fire. A range of door closer systems that are specially designed and tested for use in preventative fire protection is therefore available.

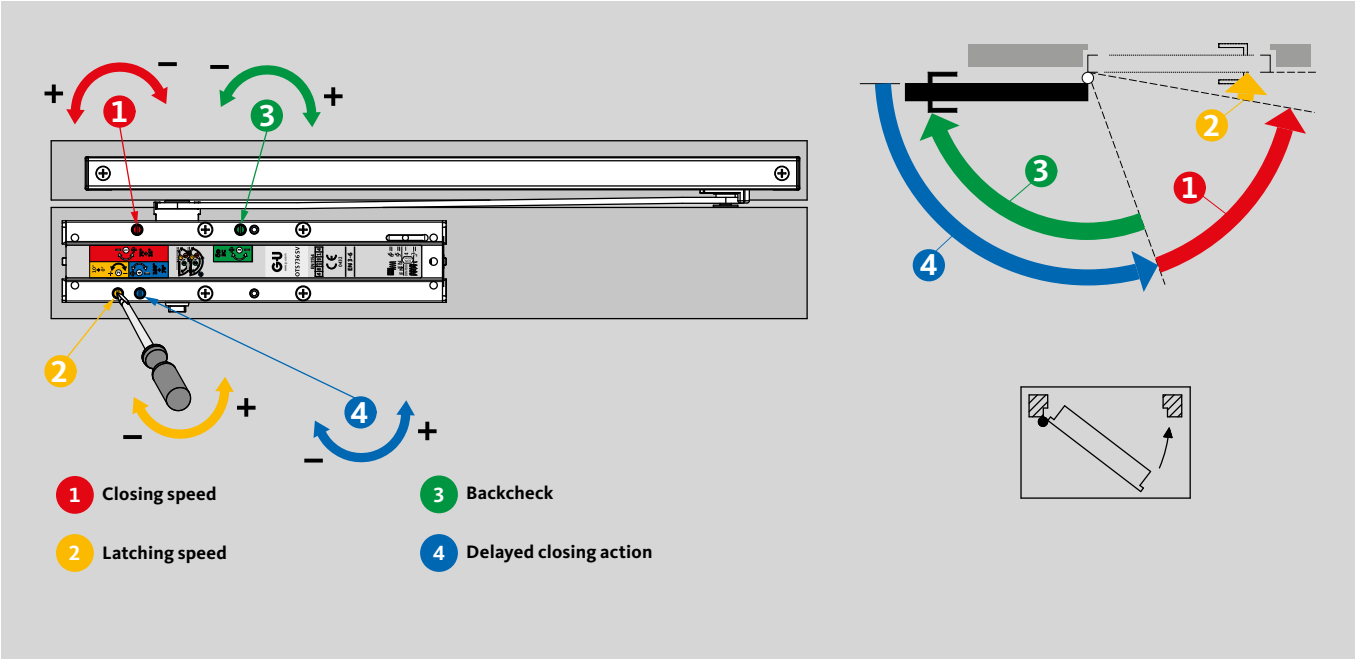
The free-swing door closer with slide rail – tested to EN 1155 – can always move freely and therefore allows users to pass through without offering resistance. It ensures through reactivation of the door closer function that fire and smoke protection doors always close safely in the event of fire or a power failure. The free-swing therefore helps fulfil all requirements for barrier-free construction.



The door closers from the OTS 73x series impressively reduce the opening force by 60 %. They therefore significantly exceed the required standard values and ensure a comfortable passage through door.

Advantage: extremely easy and comfortable passage through door, ideal for children and also elderly persons or persons with physical disabilities.

Adjustment functions



Gretsch-Unitas doors closers can be perfectly adapted to individual requirements and circumstances by adjusting various parameters. This is particularly relevant for the adjustment of closing speed, latching speed and backcheck using clearly identified valves.

Closing speed
The speed at which the door shuts can be adjusted at the red valve (adjustment range between 10° and 180°).

Latching speed / latch action
The closing speed in the final 10° of door opening can be adjusted at the yellow valve. In this case, the door movement fundamentally accelerates in the last few degrees before closing in order to overcome closing resistances, such as air resistance.

Backcheck
The purpose of the green valve is to adjust the damping of the door opening speed. It reduces the speed of a door when thrown open with force with a selectable door opening of 60° to 90°. However, the backcheck cannot be a substitute for door stoppers or other construction measures that limit the opening angle separately, e.g. if the door is outwards opening and can be caught by the wind.

Adjustment of closing force size
The closing force is a parameter that references the closing momentum to the door leaf width and door weight. This function makes it possible to perfectly adjust the closing momentum of a door closer. The size of the closing force set at the closer corresponds to the door closer size according to EN 1154 and must be selected to match the width of the door. In this case, the standard specifies that the next size up must be selected if required by structural (door height, door weight) or local circumstances (effect of wind).

Delayed closing action
The delayed closing action can be adjusted steplessly via the blue valve. The closing speed of the door opening angle can be reduced to between 180° and 70°. The door then closes more slowly in this range which allows safe passage for persons with luggage, shopping, children's pushchairs or persons with restricted mobility. As soon as the door reaches an opening angle of 70°, it closes at the closing speed preset at the red valve.

Installation types

The type of fixing and installation of a door closer on the door leaf or door frame depends on

- The type of closer
- The type of door and material used: DIN drilling-hole patterns must be complied with at fire protection doors, for example
- The application type: whether the door opens inwards or outwards for example, and whether or not it is installed in the indoor or outdoor area (environmental effects)
- Adjacent walls and masonry projections affect the space requirements, for example

Important:

The X-dimension must be observed when installing on the side opposite the hinges because this decisively influences the maximum door opening angle. This maximum door opening angle **must not be exceeded,** which is why it must always be limited by an additional door stopper.

Max. door opening angle depending on dimension X

Dim. X	Max. door opening angle
70 mm	125°
80 mm	121°
90 mm	117°
100 mm	113°
110 mm	110°



Standard installation on hinge-side



Transom installation on hinge-side



Standard installation on side opposite to hinges



Transom installation on side opposite to hinges

Finishes

Gretsch-Unitas door closers are available in various finishes:

Example OTS 73x series

	Finish
	silver
	black RAL 9005
	white RAL 9016
	stainless steel
	special colour (available on request)

Example OTS 634

	Finish
	silver
	dark bronze (on request, depending on door closer type)
	black RAL 9005
	white RAL 9016

List of abbreviations/ Pictographs

List of abbreviations

Abbreviation	Meaning
AD	Cover
ALW	Active leaf width
AV	Axle extension
BC	Backcheck
BG	Side opposite to hinges
BS	Hinge-side
FE	Electromechanical hold-open device
FE-SRI	Electromechanical hold-open device with door leaf coordination (for 2-leaf doors)
FER	Hold-open systems with fire detector and additional power supply
FER-SRI	Hold-open systems with fire detector, additional power supply and door leaf coordination (for 2-leaf doors)
FL	Free-swing function
FM	Mechanical hold-open device
FS	Fire protection door
FSA	Hold-open system
GS	Slide rail
KM	Transom installation
MNK	Carrier bar
MP	Mounting plate
NM	Standard installation
ÖB	Opening restriction
ÖD	Backcheck
OTS	Overhead door closers
PLW	Passive leaf width
RS	Smoke protection door
RSM	Smoke switch module
SA	Scissor-action arm
SRA	Door-leaf coordinator, surface-mounted
SRI	Integrated door-leaf coordinator
SV	Delayed closing action
UTS	Floor spring
VTS	Concealed door closer

Pictographs

Logo	Meaning
EN 1154	**EN 1154** Certified door closing equipment with controlled closing sequence
EN 1155	**EN 1155** Certified and approved products for electrically-operated hold-open systems
EN 1158	**EN 1158** Certified door-leaf coordinators for use on 2-leaf swing doors
DIN SPEC 1104	**DIN SPEC 1104** Suitable for barrier-free construction in compliance with DIN SPEC 1104
DIN 18040	**DIN 18040** Suitable for barrier-free construction in compliance with DIN 18040
VdS	VdS-tested
F	Tested and approved for use on fire and smoke protection doors
CE	CE = The abbreviation 'CE' stands for the European Communities (French; "Communautés Européenes") The product satisfies all legally-prescribed conditions for the CE marking and matches the characteristics stated in the Declaration of Performance: “The CE marking is the technical passport for the product within the European Economic Area.” (Deutsches Institut für Normung e. V., the German institute for standardisation)

Product information

This product information is intended for door fabricators and building operators and must be delivered to the end user.

In accordance with the manufacturer's liability for his products as defined in the German "Product Liability Act" (§4 of the Product Liability Act), the following information about door closers for swing doors must be observed. Non-observation shall release the manufacturer from his liability.

1. Product information and intended use

Door closers and floor springs are within the meaning of this definition designed to close swing doors again after they have been opened manually. The closing action is hydraulically damped, and is adjustable. The required closing force in relation to door leaf width and weight is defined in the standard EN 1154.

Function preconditions
The doors can only work correctly if they are installed in a vertical position and can move smoothly, and if the door closer is mounted properly. It is therefore necessary that both installation and adjustment of the various functions should be carried out by specialist companies only, and these companies must observe the manufacturer's specifications for the product concerned also taking the structural conditions into account.

A **fixed open position** of swing doors can only be achieved with additional hardware (hold-open device) or with integral constructional components. Unfavourable local conditions (e.g. effect of wind) require the use of door closers with enhanced closing momentum. Especially on outward opening swing doors is it necessary to use door closer types with the backcheck feature which, however, do not restrict the door opening angle.

For **fire and smoke protection doors**, the installation method and installation position are strictly prescribed. These assemblies must be licensed by the German Institute of Civil Engineering (proof of the door's suitability must be observed). Likewise, the DiBt´s directives for hold-open systems shall be observed. Deviations from the directives are not in accordance with the intended use.

Special door closer versions are required for swing doors on damp rooms, for unprotected external mounting and for use in an environment with aggressive corrosive air contents, as well as for doors exposed to extremely high or low temperatures.

Floor boxes for **floor springs** must be protected against soiling after installation. If floor springs are exposed to ingress of water, e.g. in damp rooms or on entrance doors without protection against rain, the space between the cement case and door closer housing must be filled with a suitable pourable sealing compound.

2. Misuse

Non-compliance with the intended use of swing door closers exists particularly when:

- door closers are used for purposes other than the closing of doors
- the size of the door closer chosen does not correspond to the manufacturer's recommendations
- the installation and/or adjustment was/were carried out incorrectly or inexpertly
- the closing operation is impeded by obstacles in the closing area, when the door leaf drags on the floor or is jammed in the frame, and when the closing operation is impeded by stuck gaskets, wooden wedges and other elements.
- door hinges interfere with the locking operation because they are not aligned correctly or do not run smoothly
- foreseeable local conditions, such as wind or temperatures (over 40°C or under -15°C), exceed or fall below the manufacturer's specifications
- non-approved door closers are used in fire and smoke protection doors

3. Product performance / standards

All performance requirements going beyond the scope of the catalogue specifications are to be clarified with the manufacturer.

The following standards are to be used as guidance:

- DIN 18263 part 1 "Door closers with crank drive"
- EN 1154:1996 Requirements and test methods for "Door closers with controlled closing action"
- EN 1155:1997 Requirements and test methods for "Electrically powered hold-open devices"
- EN 1158:1997 Requirements and test methods for "Door-leaf coordinators"

4. Product maintenance

The door closer or door assembly must only be serviced by specialists of the GU group or by authorised agents. If maintenance is neglected, improper functioning (closing force and speed) may not be recognised early enough and therefore cause hazards.

Depending on requirements, door closers must be regularly checked for tight attachment and for wear. Fixing screws must be tightened up and defective parts exchanged.

Moreover, the following maintenance work has to be carried out at least **once a year**, or more frequently depending on the type and use of the swing doors:

- All moving parts on the scissor-action arm must be greased
- The setting of the closer, the closing speed for example, must be checked
- The smooth running of the door must be checked
- In the case of door closers with special functions (hold-open devices / hold-open systems), it is necessary that monitoring and maintenance procedures, as well as the legal controls, are carried out.
- Door closers and/or defective components must be replaced immediately if correct function can no longer be guaranteed.
- Only lubricants and cleaning detergents not containing corrosive and/or destructive ingredients may be used for maintenance

5. Duty to inform and to instruct

For compliance with the duty to inform and to instruct, the following material is made available:

- Catalogues, brochures, tender specifications, quotation documents
- Hardware installation and operating instructions, installation drawings
- Standards according to the corresponding product performance (exclusive distribution of German editions by Beuth-Verlag GmbH, Berlin)
- Consultancy by the group's field staff

To ensure correct use, functioning, service and maintenance of swing door closers, it is necessary to request and observe the appropriate product information, and to pass it on to fabricators and building operators. This applies particularly to operating and maintenance instructions, and to acceptance tests prescribed by the law.

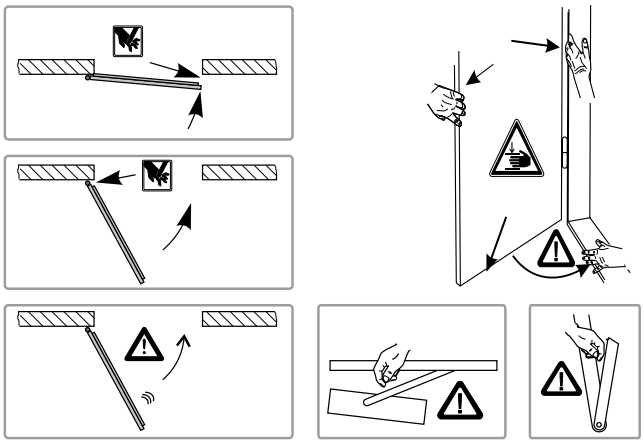
6. Liability

The entire hardware set (door closer) in each case may only consist of Gretsch-Unitas group hardware components. No liability is accepted if the door closer is incorrectly installed or maintained and/or if non-original accessory components and/or non-factory-approved accessory components are used.

7. Safety guidelines for building operators

Attention!
Misuse may result in personal injury and in material damage on doors, walls and furnishings.

Danger!
There is a risk of injury caused by lack of attention. This applies especially to the elderly and handicapped, and to children (see sketches, view from above):



- **Trapping of fingers** between door leaf and main closing edge (lock side)
- **Crushing of fingers** due to large forces on the hinge-side
- Striking of persons due to excessively high speed of closing door leaf, caused by:
  – defective door closer
  – incorrect setting of the door closer size by the adjusting screw
  – incorrect setting of closing speed
- Children's **feet or fingers being trapped** between the lower door edge and floor if the gap is slightly higher. **Keep children well clear! Doors and windows are not suitable for children to play with!**
- **Crushing of fingers** in the linkage or slide rail of the door closer if operated during maintenance or cleaning, **the door should therefore be secured in a fixed position beforehand**

Do not adjust or replace a door closer without having any special knowledge!

8. Disposal

The regulations of the particular country must be observed. Door closers contain a small amount of hydraulic oil which is not subject to the Ordinance on Hazardous Substances.

Do not open the door closer because of the pre-stressed springs inside! Dispose of the whole door closer as recycling material (scrap).

Exclusion of liability / Copyright notice / Image credits

Indicative character of technical information, exclusion of liability

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The product images shown in the publication may differ from the actual product, particularly as a result of technical improvements. We would also like to draw your attention to the current information at the website mentioned above.

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Page 10 Picture of person „Little girl running“ / GettyImages
Page 246 Globe with streaks of light / Photographer‘s Choice RF / Getty Images

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