



WINDOW TECHNOLOGY
DOOR TECHNOLOGY
AUTOMATIC ENTRANCE SYSTEMS
BUILDING MANAGEMENT SYSTEMS

Person photo: Getty Images



DOOR TECHNOLOGY

Paving the way to freedom of movement and safety –
the motor-driven shoot-bolt lock

Securing technology for you



Securing technology for you

Exclusion of liability

The information provided in this publication consists of product descriptions. This is general information based on our experience and tests and therefore does not take any specific application into account. No claims for compensation can be made on the basis of the product descriptions.

Although we have made every attempt to ensure the information provided here is accurate, it is non-binding. It should be adapted to the respective construction projects, usage and specific on-site demands.

The publication has been compiled to the best of our knowledge. The Gretsche-Unitas Group accepts no liability for any errors. The document is subject to modifications during the course of technical developments.

The product images shown in the publication may differ from the actual product.

Copyright notice

© All illustrations and texts in this publication are protected by copyright. Unless otherwise stated on the image, the rights belong to the Gretsche-Unitas Group. Any use of copyright protected materials without the consent of the holder of the rights is prohibited.

Image credits

Page 1
Personal photo: Hispanic woman shopping
in mall provided from Collection
Blend Images / Getty Images

Security, comfort and efficiency.....4 – 5

Suggested components 6

Possible combinations..... 7

Functional principle..... 8

Swing door drive 9

Order information..... 10 – 11

Publisher
Gretsche-Unitas GmbH
Baubeschläge
Johann-Maus-Str. 3
D-71254 Ditzingen
Tel. +49 7156 301-0
Fax +49 7156 301-293
www.g-u.com

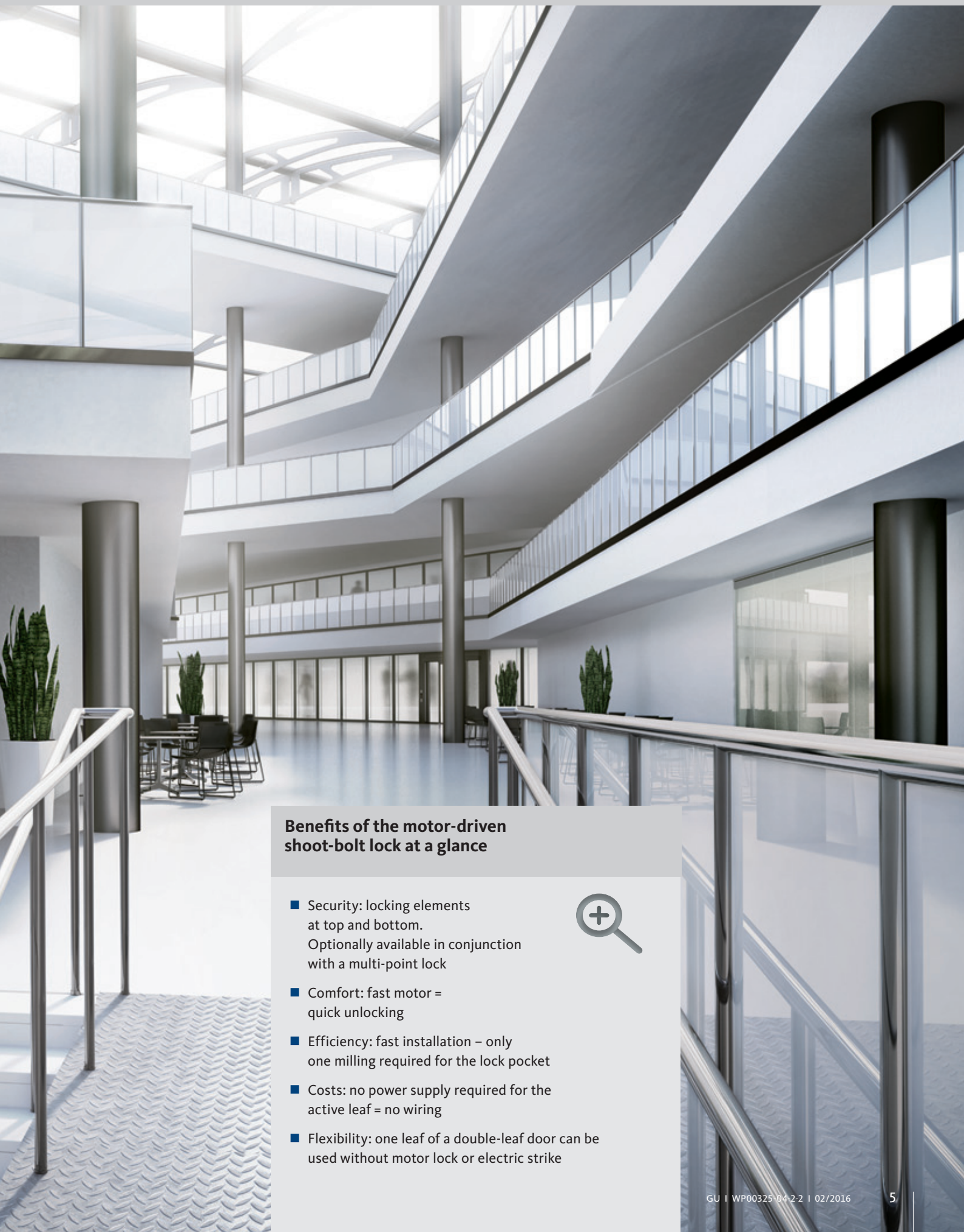
Solutions for barrier freedom must also reflect the exacting security requirements to be met in public buildings. The motor-driven shoot-bolt lock in conjunction with automatic swing-door drives is particularly suitable for use on double-leaf doors. From a single source: GU offers solutions using products that are harmonised to complement each other perfectly.

Such systems are typically used in buildings where external doors must be securely locked at particular times or at all times while allowing barrier-free and convenient access and also functioning as an escape route. This includes applications in health centres, schools and multi-purpose buildings, care homes and event centres as well as office buildings and shopping malls.

Security, comfort and efficiency

The narrow stile door lock features a particularly fast-acting motor and performs three functions: motor-driven movement of the lower and upper locking rods, (if required) a permanently-open function for the daily pass-through operation and finally the electric strike function which holds the passive leaf closed and only allows the active leaf to open.





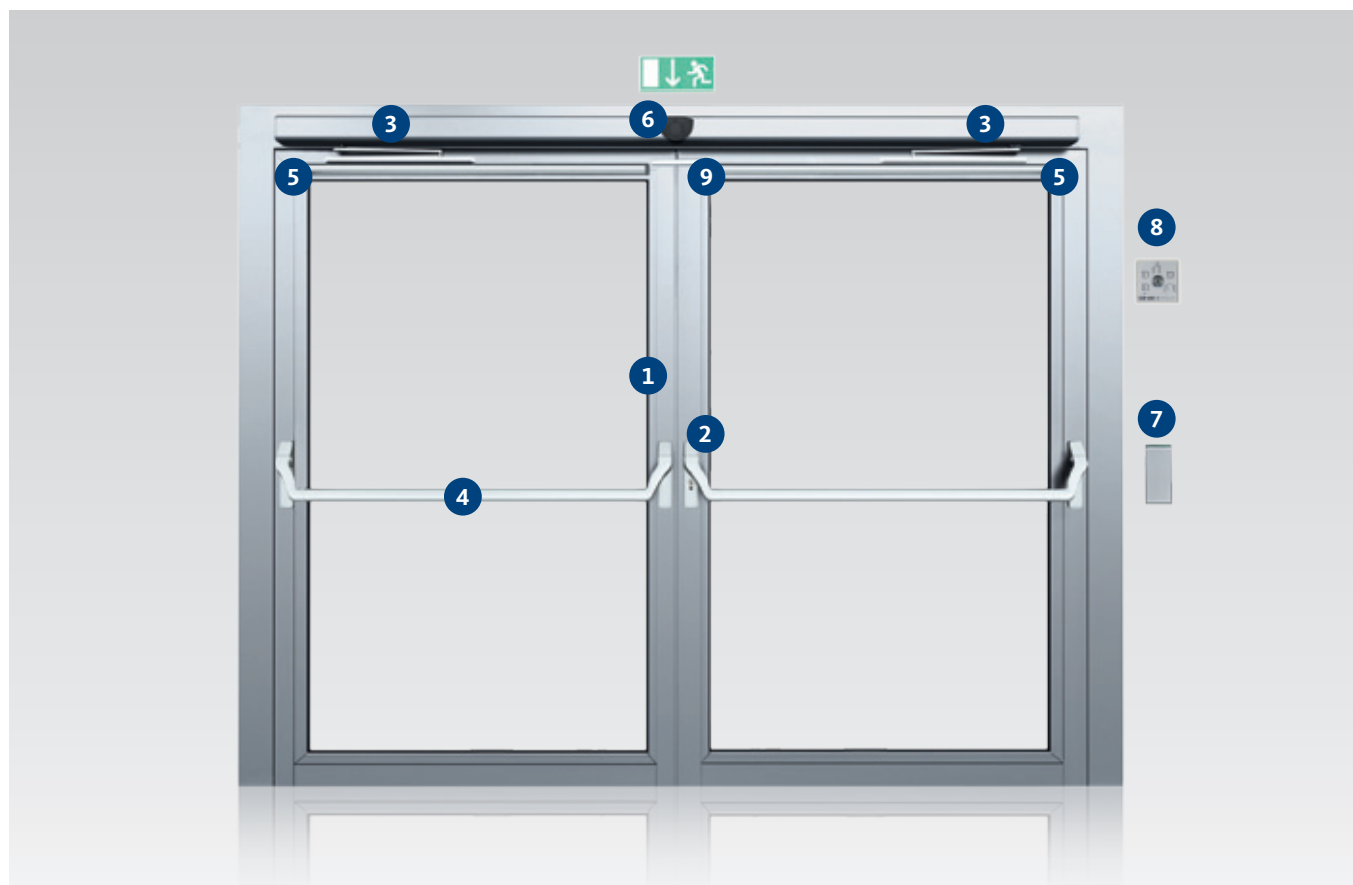
Benefits of the motor-driven shoot-bolt lock at a glance

- Security: locking elements at top and bottom. Optionally available in conjunction with a multi-point lock
- Comfort: fast motor = quick unlocking
- Efficiency: fast installation – only one milling required for the lock pocket
- Costs: no power supply required for the active leaf = no wiring
- Flexibility: one leaf of a double-leaf door can be used without motor lock or electric strike



Suggested components

Double-leaf doors in escape and rescue routes



Components – passive leaf

- 1 B-1893 / B-1993 motor-driven shoot-bolt lock

Components – active leaf

- 2 The motor-driven shoot-bolt lock can be combined with

Manually locking locking systems

- Panic locks – Series 18

Self-locking locking systems

- Panic locks – Series 19
- Multi-point locks – SECURY Series 19

Other components

- 3 DTR-2 swing-door drive
- 4 Hardware for emergency exit devices in accordance with EN 179
- Lever handle
 - Hardware for panic exit devices in accordance with EN 1125
 - Push bars or touch bars
- 5 Safety sensors
- 6 Radar motion sensor
- 7 Elbow push-button
- 8 Manual programme switch
- 9 MNK carrier bar



Possible combinations

Lock versions for passive and active leaf



Motor-driven shoot-bolt lock

The motor-driven shoot-bolt lock B-1893 / B-1993 is approved to EN 179 / EN 1125 and EN 14846. It can be used for fire protection doors and is suitable for barrier-free construction in compliance with DIN 18040.

The motor-driven shoot-bolt lock offers enhanced security owing to the locking elements at the top and bottom of the passive leaf.

No motor-driven lock or electric strike is required to open the active leaf; only a standard panic lock is needed.

The motor-driven shoot-bolt lock can be combined with the BKS lock Series 18, 19 and SECURY 19.

Manual-locking locking systems Series 18



Shoot-bolt lock
B-1893



Panic lock
Series 18



Panic lock
Series 18
with top locking feature

Self-locking locking systems Series 19



Shoot-bolt lock
B-1993



Panic lock
Series 19



Panic lock
Series 19
with top locking feature



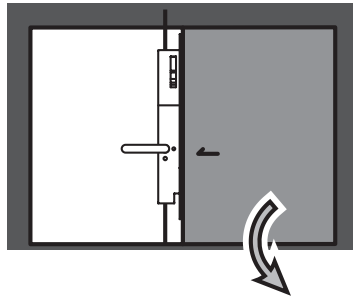
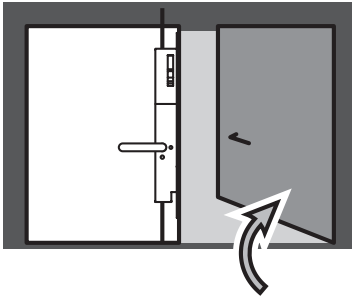
Multi-point lock
SECURY Series 19

Functional description

Double-leaf escape doors fitted with swing-door drives and a motor-driven shoot-bolt lock

GU

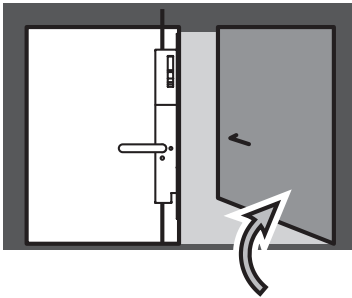
BKS



Automatic –
1-leaf

Active leaf - Open

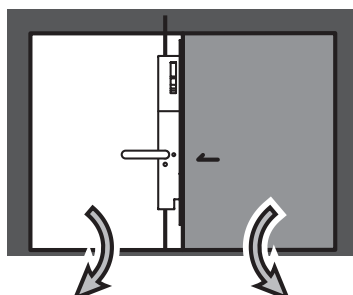
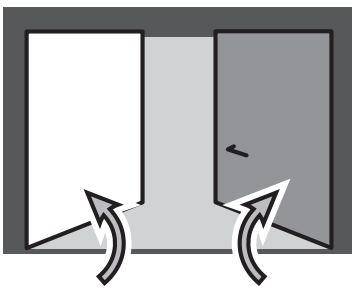
The active leaf unlocks and opens automatically. The passive leaf remains locked.



Permanently
open –
1-leaf

Active leaf – Permanently open

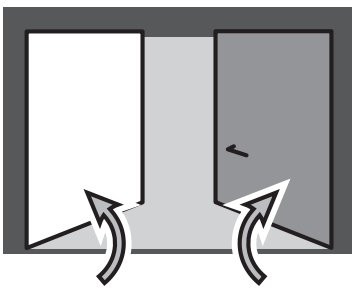
The active leaf is permanently open. The passive leaf remains locked.



Automatic –
2-leaves

Active leaf and passive leaf – Open

The active and passive leaves are unlocked. Both leaves open automatically. Once the set hold-open time has elapsed, the passive leaf closes first, followed by the active leaf, providing nobody is within range of the sensors. Both leaves are automatically locked once again.



Permanently
open –
2-leaves

Active leaf and passive leaf – Permanently open

The active and passive leaves are unlocked when the permanently-open function is activated. Both leaves open automatically and remain in this position.

Swing-door drive for double-leaf doors

DTR-2 / DTR B-2



Accessibility and comfort even for noise-sensitive areas

For controlled opening without effort. Doors can be equipped in a very flexible manner with the DTR-2 / DTR B-2 swing door drive from the GU Group.

The motor lock control unit and the power supply unit can be integrated into the swing-door drive.

Convincing in detail:

- Adjustable wind pressure function
- Integrated mechanical closing sequence control for double-leaf systems
- Type-tested by TÜV and certified to DIN 18650/EN 16005

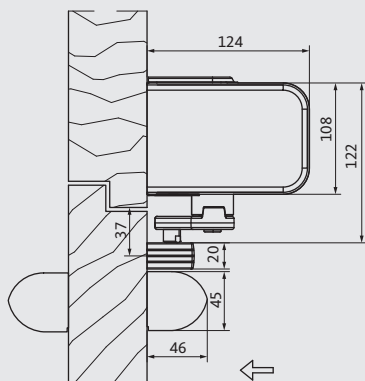


Fig.: Push-open version with slide rail

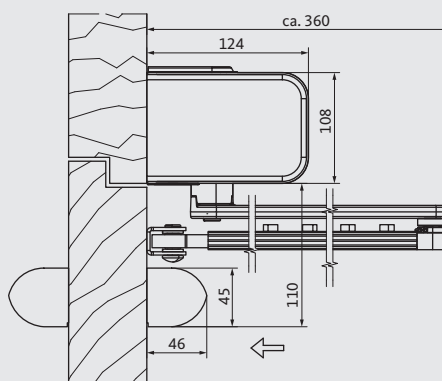


Fig.: Push-open version with scissor-action arm

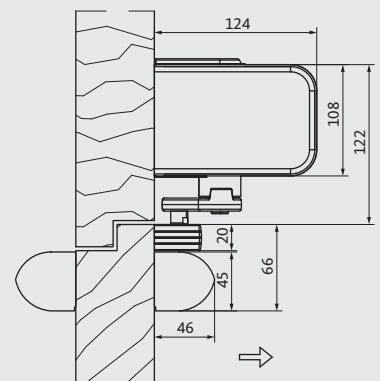
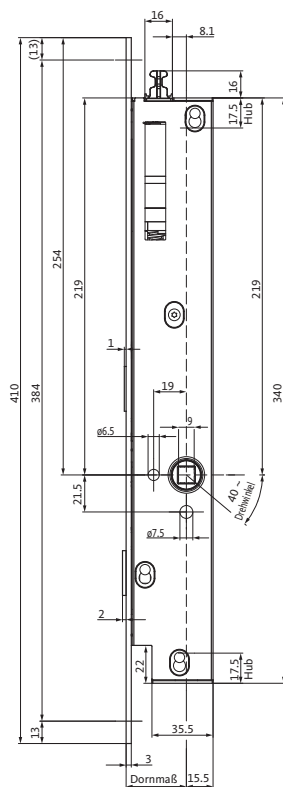


Fig.: Pull-open version with slide rail

Description	DTR-2	DTR B-2
For use on fire and smoke protection doors	-	■
2-leaf door with mechanical door leaf coordinator	■	■
Push-open version: Slide rail or scissor-action arm	■	■
Pull-open version: Slide rail	■	■
Opening	electromechanical	
Closing	electromechanical and with spring force	
Dimensions: 2-leaf (W x H x D)	distance between hinges x 108 x 126 mm	
Opening angle	max. 115°	
Axle extension	15 and 30 mm	
Scissor-action arms for lintel depths in mm	0...120, 100...220, 210...330	
Slide rail	± 10 mm	
Opening time	3 – 20 s	
Closing force in accordance with EN 1154	size 4 – 6	
Power supply for external accessories	24 V DC, 1 A	
Performance in inactive state	13 W	

B-1893 / B-1993 motor-driven shoot-bolt lock

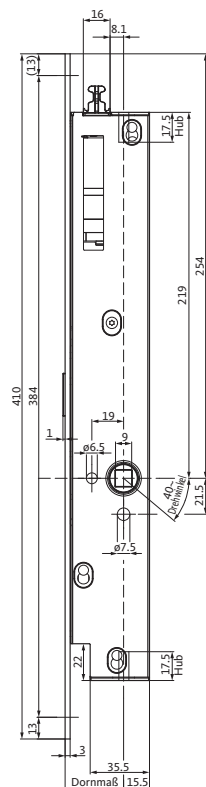


Faceplate Material/Finish	Backset in mm	Faceplate Shape	Faceplate 24 x 3 x 410 mm Non-handed
matt stainless steel	35	square	B-18930-00-0-8
	40	square	B-18930-01-0-8
	45	square	B-18930-02-0-8

Accessories

■ Motor lock control unit	B-54900-01-3-9
■ Connecting cable	B 5490 0300
■ Passive-leaf control lock	B 1895
■ Vertical rods	B 9006
■ Guide plates for vertical rod	
■ Floor strikers	

- Power supply unit (24 V DC / 4.2 A) B 5570 0401
- Emergency power backup system
(fire protection) B-54903-23-3-9
- Manual programme switch A-8010700



Faceplate Material/Finish	Backset in mm	Faceplate Shape	Faceplate 24 x 3 x 410 mm Non-handed
matt stainless steel	35	square	B-19930-00-0-8
	40	square	B-19930-01-0-8
	45	square	B-19930-02-0-8

Accessories

■ Motor lock control unit	B-54900-01-3-9
■ Connecting cable	B 5490 0300
■ Passive-leaf control lock	B 1895
■ Vertical rods	B 9006
■ Guide plates for vertical rod	
■ Floor strikers	

- Power supply unit (24 V DC / 4.2 A) B 5570 0401
- Emergency power backup system (fire protection) B-54903-23-3-9
- Manual programme switch A-8010700



All ordering information required for equipping a double-leaf narrow stile door with motor-driven shoot-bolt lock can be found in the ordering documentation listed below.



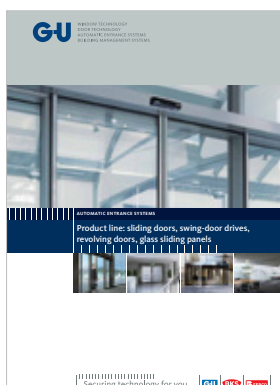
System solutions for narrow stile doors WP02016-04-2-1

- Manual-locking locking systems
 - Panic lock Series 18
- Self-locking locking systems
 - Panic lock Series 19
 - SECURY Series 19 multi-point locks
- MNK carrier bar



Hardware for doors, handles for windows and sliding elements WP00060-04-0-1

- Hardware for emergency exit devices in accordance with EN 179
 - Lever handle
- Hardware for panic exit devices in accordance with EN 1125
 - Touch bars and push bars



Automatic entrance systems – complete range WP00450-04-4-2

- DTR swing-door drive
- Radar motion sensor
- Elbow push-button



WINDOW TECHNOLOGY
DOOR TECHNOLOGY
AUTOMATIC ENTRANCE SYSTEMS
BUILDING MANAGEMENT SYSTEMS

Gretsch-Unitas GmbH
Baubeschlge
Johann-Maus-Str. 3
71254 Ditzingen
Germany
Tel. +49 7156 301-0
Fax +49 7156 301-77980

BKS GmbH
Heidestr. 71
42549 Velbert
Germany
Tel. +49 2051 201-0
Fax +49 2051 201-9733

GU Automatic GmbH
Karl-Schiller-Str. 12
33397 Rietberg
Germany
Tel. +49 5244 9075-100
Fax +49 5244 9075-599

www.g-u.com

Printed in Germany

02/2016

WP00325-04-2-2

Securing technology for you

