



WINDOW TECHNOLOGY
DOOR TECHNOLOGY
AUTOMATIC ENTRANCE SYSTEMS
BUILDING MANAGEMENT SYSTEMS



DOOR TECHNOLOGY – PERFORMANCE CATALOGUE, LOCKING CYLINDERS



Complete range –
electronic and mechanical locking systems

Edition 02/2016

Securing technology for you



Electronic and mechanical locking systems

Universal and variable



Cutting-edge locking systems

The BKS brand

Security has a name, or to be more accurate, it is a brand. BKS GmbH is a member of the Gretsch-Unitas Group. More than a century of experience in manufacturing high-quality locking systems. Ever since the round cylinder was developed in 1938, BKS GmbH has been and remains today one of the leading companies in the field of locking technology and security.

Opening and closing

Locking systems from BKS offer individual and tailor-made solutions and are manufactured in accordance with the highest quality standards. By choosing a BKS system, you opt for the most modern locking systems with the most diverse functions and features. You also open up flexible design options for subsequent upgrades.

A variety of solutions

Locking systems from BKS offer a variety of solutions for securing individual doors and for planning modern master key systems. Convenience and security can be individually designed and economically implemented with the combination of mechanical and electronic locking systems.

Perfect interaction

Along with the outstanding quality of their mechanical, mechatronic and electronic cylinders, BKS offer a comprehensive range of services in the field of planning, management and reordering of duplicate or replacement keys and cylinders.

Cutting-edge locking systems

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The BKS system world



Three compatible systems

Mechanical, mechatronic and electronic solutions

Locking systems from BKS offer a variety of solutions for securing individual doors and for planning modern master key systems. The mechanical, mechatronic and electronic variations embody convenience and security and can be customised and used cost-efficiently as a single system or in combination.

Fitting together like a cylinder and key: production landscape and service

Perfect cooperation: BKS strengthens the high quality of the mechanical and electronic locking systems with a comprehensive service offer. So when planning, managing and reordering keys and cylinders, there is real added value.

Mechanical locking systems

Key and cylinder: the high-quality basis of mechanical locking systems. These fall into two categories.

Conventional locking systems

Conventional locking systems work with vertically arranged tumbler. Thanks to the large number of variations of bitting depths, you can use conventional systems almost everywhere – even in complex master key systems. All locking cylinders have an anti-bump feature as standard and are available as registered key bitting with security card.

Reversible key systems

Convenient security: with BKS reversible key systems, you can expect highly convenient operation and innovative cylinder technology. From registered key bittings with security cards through to patent-protected key profiles for master key systems. With BKS reversible key systems, you can solve almost any application requirement. All systems are protected against bumping as standard and are available with certified drilling/picking protection elements as an option.

detect³



helius

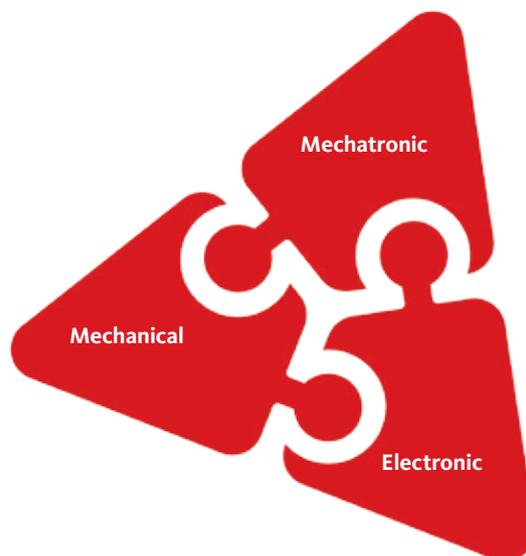
livius

janus



Be clever with your combinations

Mechanical, mechatronic and electronic. With BKS you don't need to make an either/or decision. This is a clear advantage as the trend is moving towards systems that combine mechanical locking cylinders with mechatronic and electronic solutions. And so flexibility and cost-effectiveness are perfectly united.



Electronic locking systems

Would you prefer an electronic and mechanical combination or a purely electronic system? BKS offers you a choice.

Mechatronic cylinders

The best of two technological worlds: BKS mechatronic locking systems combine tried-and-tested mechanics with convenient electronics. For this reason, janus cylinders have been fitted with an electronic rosette. Access is gained via key with an SE transponder. The tried-and-tested mechanical system therefore has additional electronic protection.

Electronic cylinders

The modern and flexible SE electronic locking system meets the highest security demands in sensitive areas such as managing directors' offices or research departments. The locking system sets new standards with its many innovative features, such as highly efficient energy management or simple software-based authorisation allocation. Thanks to the system's particularly energy-efficient operation and the low level of installation effort it requires, you will also be on safe ground in terms of costs.

janus® SE

SE Cylinder



SE

SE double knob cylinder

SE lock



The BKS performance ranking



In active use everywhere

A locking system for every requirement

Electronic, mechatronic and mechanical BKS locking systems have a wide variety of applications. For every convenience, protection and flexibility requirement, BKS has an appropriate system or a suitable combination of several systems. The BKS performance ranking provides you with an initial overview of which system is most suitable for you.

-  **Flexibility:**
Programmable, extendable and compatible with master key systems
-  **Protection:**
Drilling protection, anti-bump feature and key duplication protection
-  **Convenience:**
Reversible key and easy operation

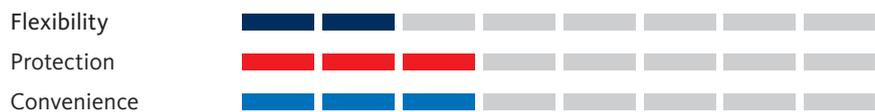
Mechanical locking systems – conventional locking systems

PZ 88



PZ 88 locking system

Ideal for keyed-alike locking.



detect3®



detect3 locking system

Ideal for master key systems with combined authorisation levels.



Overview of performance and product features



	Mechanical locking systems			
	Conventional locking systems		Reversible key systems	
	PZ 88	detect3	helius	livius
Locking variants				
Master key systems		■	■	■
Keyed-alike cylinder	■	■	■	■
Programmable				
Registered key biting		■	■	■
Functions				
Standard function	■	■	■	■
Emergency function	■	■	■	■
Freewheel function		■		■
Short-term release				
Permanent release				
Daytime release				
Standard design				
Cylinder body, nickel-plated brass	■	■	■	■
Cylinder body, matt nickel-plated				
Anti-bump feature	■	■	■	■
Modularly changeable				
Key duplication protection		■	■	■
Optional features				
Protection against seawater		■		■
SL system		■		■
Drilling protection	■	■		■
Drilling/picking protection		■		■
VdS version		■		
SKG version	■	■		■
A2P version		■		■
Key duplication protection		■		■
Performance features				
Patent protection		■	■	■
Compatible with janus SE cylinders				
Can be ordered through MKS		■	■	■
Key combinable with SE transponder		■	■	■
Event recorder				
Management via KeyManager		■	■	■
Programming via KeyManager				
Online-enabled				
Number of locking cycles per standard battery				
Multilevel low-battery alarm				

SE electronic locking system



SE



The **SE** electronic locking system is an extremely safe investment due to its ability to expand according to requirements. The whole system can be flexibly adapted to meet additional requirements. It can also be combined with existing mechanical components at any time.

The flexible locking system

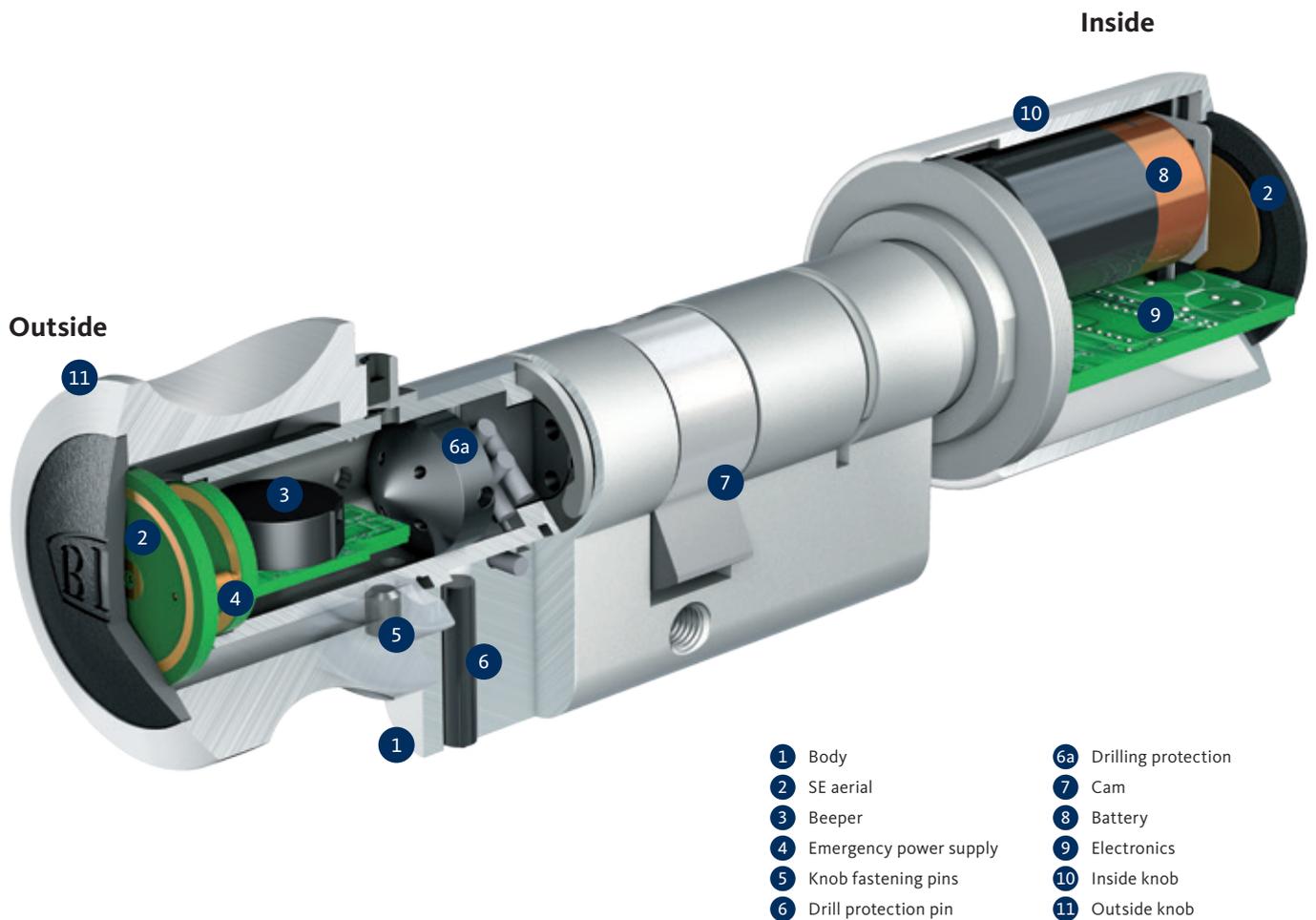
One of the most important selection criteria for an electronic locking system? Energy efficiency! That's how follow-up costs are kept under control – especially with medium-sized and large master key systems. BKS SE technology is characterised by particularly low energy requirements. Up to 600,000 locking cycles and up to 10 years of standby time are guaranteed and therefore you will rarely have to change the battery.

As well as being highly convenient, electronic locking systems offer the highest level of security. The SE technology satisfies the highest security requirements of the DIN EN 15684 standard for mechatronic locking cylinders by using extremely reliable encryption and communication mechanisms. The security is VdS-certified.

The trend is moving towards systems that combine mechanical locking cylinders with mechatronic and electronic solutions. This mixture ideally combines flexibility of usage and profitability.

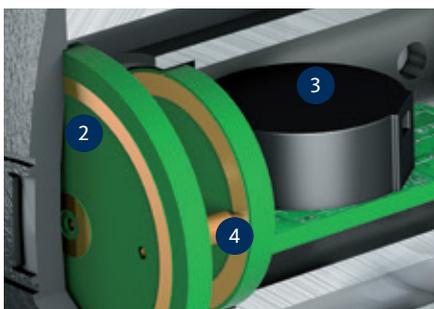
Highlights

- Extremely low energy consumption: up to 600,000 locking cycles or 10 years of standby time per standard battery
- Highest level of security – certified by VdS
- SE lock: convenient door hardware operation with any choice of hardware design
- BKS KeyManager software: manage mechanical and electronic locking systems within one software program
- Transponder und mechanical key can be combined to form one access medium
- Different system variants: offline, online (via radio), virtually networked (Data on Transponder)
- Flexible authorisation allocation and worry-free key loss
- Simple, wireless installation

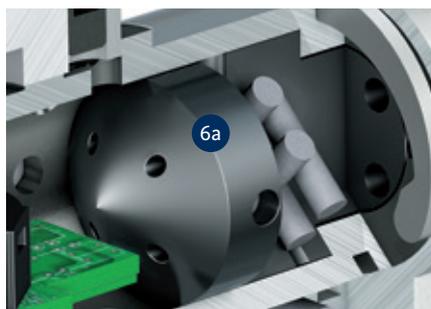


SE double knob cylinder: the master of adaptation

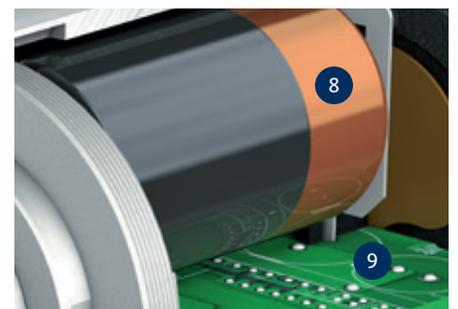
With many different versions, the SE double knob cylinder can be adapted to meet all requirements. Therefore, small and large master key systems can be operated in a safe and convenient manner – both offline and online. Some panic locks according to EN 179 / EN 1125 require the installation of tested and approved knob cylinders. The SE double knob panic cylinder fulfills these high requirements.



SE aerial:
The capacitive communication provides a very long battery life due to low energy requirements.



Drilling protection:
The certified security (VdS BZ) is based on an efficient drilling protection concept (optional).



Electronics and battery:
The interior protected electronics with standard battery guarantees security and minimises environmental influences such as heat and cold.

SE product range



SE



SE double knob cylinder

Can be used universally in combination with any form of mechanical locking system.



SE knob half cylinder

Electronically secure key switches, escape door terminals or elevators – with an optional removable knob.



janus SE cylinder

Combined mechanical and electronic security ideally suited to areas prone to vandalism.



SE lock

Convenient operation and high-level security combined – the hardware design is optional.



SE wall reader / SE release terminal

Opens barriers, rolling doors or barrier-free doors with a swing door drive or motor-driven locks.



SE programming device

Programming and service tool with display for electronic locking systems.



SE transponder

Pleasant-to-touch access medium combinable with mechanical keys.



KeyManager

Manages and programs mechanical and electronic locking systems in one software program.

Manage locking rights centrally

With the BKS KeyManager, all cylinders, either with or without electronic components, can be managed together in one software program. Modified access rights can be conveniently updated centrally via the programming device or locally via the release terminals.

Future-oriented locking

Unlike conventional electronic hardware solutions, with the SE lock there is a wide range of hardware available that can be combined with the lock – after all, the entire system technology is stored securely in the lock. This gives designers the design and aesthetic freedom they require – without compromising security.

SE double knob panic cylinder

Some panic locks place very high demands on knob cylinders. The SE double knob panic cylinder is the optimal solution. With the SE knob half cylinder you can electronically secure key switches, escape door terminals or elevators for optimal access organisation. The knob can be detached for installation in different situations.

Features and benefits of the electronic SE locking system

Ideal for projects with different organisational or safety-related door requirements: thanks to flexible authorisation allocation, higher energy efficiency and compatibility with mechanical systems, the electronic locking system also offers cost-effective security.



Standard equipment

- High energy-efficiency
- Large memory capacity for event recorder
- Multilevel low-battery alarm
- Freely adjustable coupling duration
- Contactless programming with programming device or via radio
- Upgradable firmware
- Electronics are located inside the secure interior area
- Faceplate screw: M5 x 80 mm, nickel-plated steel
- Emergency module for external power supply available
- Compatible with mechanical master key systems – ideal for upgrades
- Convenient administration and programming via KeyManager software

Extra equipment

- Push-button on the interior knob for manual operation without transponder
- Special lengths > 80 mm/80 mm
- Panic version
- Online version with radio module
- VdS variant
- SKG variant
- Half cylinder, with removable knob on request
- Weather-proof version IP 65
- Explosion protected version (janus SE cylinder)

Technical data	
Order length (BL), outside	27, 31, 35 ... ascending in 5 mm steps up to 80 mm
Order length (BL), inside	31, 35 ... ascending in 5 mm steps up to 80 mm
Power supply	1 x lithium battery 3V, type CR2
Battery life SE double knob cylinder	up to 350,000 locking cycles or 10 years standby
Battery life janus SE cylinder	up to 600,000 locking cycles or 10 years standby
Protection type	optional IP 65 (SE double knob cylinder), IP 54 outside,
Radio (optional) frequency	868 MHz
Temperature range	-25 °C to +70 °C, relative humidity up to 95 %, non-condensing
Transponder/programming interface	capacitive
Signalling	audible (cylinder), visual (transponder)
VdS variant	optional
SKG*** variant	optional

SE electronic locking system

SE knob cylinder



	5345 SE double knob cylinder	5342 SE double knob panic cylinder	5341 SE knob half cylinder
Functions			
Standard function			
Adjustable coupling duration	■	■	■
Freewheel function	■	■	■
Resetting of cam		■	
Adjustable response time			
Finish			
Cylinder, nickel-plated matt brass	■	■	■
Cylinder, matt brass			
Knob, stainless steel	■	■	■
Knob, matt brass	□	□	
Knob, polished brass	□	□	
Rosette, stainless steel			
Rosette, matt brass			
Rosette, polished brass			
Type			
Order lengths BL, mm	27/31, 27/35, 31/31	31/31	31
Extended external plug 9 mm	□	□	
Removable knob			□
Coupling via push-button on inside	□		
Fastening thread			□
Explosion protected version			
Weather-proof version	□	□	■
Drilling/picking protection			
Drilling protection	□	□	
Drilling/picking protection			
Features			
Dust cap			
Multifunction LED			
Acoustic signalling	■	■	
Upgradable firmware	■	■	■
Contactless programming	■	■	■
Integrated radio module	□	□	□
Event recorder	■	■	■
Low-battery alarm	■	■	■

■ = standard □ = optional

SE electronic locking system

janus SE cylinder, SE transponder



	5302 janus SE cylinder	5368 SE wall reader	5321 SE lock
Functions			
Standard function	■		
Adjustable coupling duration	■		■
Freewheel function			
Resetting of cam			
Adjustable response time		■	
Colour			
Cylinder, nickel-plated matt brass	■		
Cylinder, matt brass	□		
Knob, stainless steel			
Knob, matt brass			
Knob, polished brass			
Rosette, stainless steel	■		
Rosette, matt brass	□		
Rosette, polished brass	□		
Type			
Order lengths BL, mm	27/31, 27/35, 31/31		
Extended external plug 9 mm			
Removable knob			
Coupling via push-button on inside			
Fastening thread			
Explosion protected version	□		
Weather-proof version			
Drilling/picking protection			
Drilling protection			
Drilling/picking protection	□		
Features			
Dust cap	□		
Multifunction LED		■	
Acoustic signalling	■	■	■
Upgradable firmware	■	■	■
Contactless programming	■	■	■
Integrated radio module	□		□
Event recorder	■	■	■
Low-battery alarm	■		■

■ = standard □ = optional

SE electronic locking system

SE wall reader



	5336 SE transponder Pro	5338 SE transponder Pro S	5337 SE transponder Pro DoT	5339 SE transponder Pro DoT S
Functions				
Standard function				
Adjustable coupling duration				
Freewheel function				
Resetting of cam				
Adjustable response time				
Finish				
Cylinder, nickel-plated matt brass				
Cylinder, matt brass				
Knob, stainless steel				
Knob, matt brass				
Knob, polished brass				
Rosette, stainless steel				
Rosette, matt brass				
Rosette, polished brass				
Type				
Order lengths BL, mm				
Extended external plug 9 mm				
Removable knob				
Coupling via push-button on inside				
Fastening thread				
Explosion protected version				
Weather-proof version				
Drilling/picking protection				
Drilling protection				
Drilling/picking protection				
Features				
Dust cap				
Multifunction LED	■	■	■	■
Acoustic signalling				
Upgradable firmware				
Contactless programming			■	■
Integrated radio module				
Event recorder			■	■
Low-battery alarm	■	■	■	■

■ = standard



SE knob cylinder

	SB	VK	VdS	SKG	O	DoT	Ti	WS	HZ	F	ES	ZZ
Special lengths > 80/80 (SL)	-	●	●	●	●	●	●	●	-	●	●	●
Extended external plug (VK)	●	-	●	●	●	●	●	-	-	●	●	●
VdS BZ approval (VdS)	●	●	-	-	●	●	-	●	-	●	●	●
SKG*** approval (SKG)	●	●	-	-	●	●	-	●	-	●	●	●
Online (O)	●	●	●	●	-	●	●	●	●	●	●	●
Data on transponder (DoT)	●	●	●	●	●	-	●	●	●	●	●	●
Internal push-button (Ti)	●	●	-	-	●	●	-	-	-	●	●	●
Weather-proof version (WS)	●	-	●	●	●	●	-	-	●	●	●	●
Half cylinder version (HZ)	-	-	-	-	●	●	-	●	-	-	●	●
Approved for fire protection doors (F)	●	●	●	●	●	●	●	●	-	-	●	●
Event recorder (ES)	●	●	●	●	●	●	●	●	●	●	-	●
Time frame management (ZZ)	●	●	●	●	●	●	●	●	●	●	●	-

Combination possible ● Combination not possible -

SE double knob panic cylinder

	VK	O	DoT	Ti	WS	F	ES	ZZ
Extended external plug (VK)	-	●	●	-	-	●	●	●
Online (O)	●	-	●	-	●	●	●	●
Data on transponder (DoT)	●	●	-	-	●	●	●	●
Internal push-button (Ti)	-	-	-	-	-	-	-	-
Weather-proof version (WS)	-	●	●	-	-	●	●	●
Approved for fire protection doors (F)	●	●	●	-	●	-	●	●
Event recorder (ES)	●	●	●	-	●	●	-	●
Time frame management (ZZ)	●	●	●	-	●	●	●	-

Combination possible ● Combination not possible -

janus SE cylinder

	SB	VdS	SKG	O	DoT	WS	F	ES	EX	ZZ
Special lengths > 80/80 (SL)	-	●	●	●	●	-	●	●	●	●
VdS BZ approval (VdS)	●	-	-	●	●	-	●	●	-	●
SKG*** approval (SKG)	●	-	-	●	●	-	●	●	-	●
Online (O)	●	●	●	-	●	-	●	●	-	●
Data on transponder (DoT)	●	●	●	●	-	-	●	●	●	●
Weather-proof version (WS)	-	-	-	-	-	-	-	-	-	-
Approved for fire protection doors (F)	●	●	●	●	●	-	-	●	●	●
Event recorder (ES)	●	●	●	●	●	-	●	-	●	●
Explosion protected version (EX)	●	-	-	-	●	-	●	●	-	●
Time frame management (ZZ)	●	●	●	●	●	-	●	●	●	-

Combination possible ● Combination not possible -

janus® reversible key system



janus®



Alongside the new, dynamic dimple key design, security has also been increased with patent protection lasting until 2031 for janus® the latest generation. Not only is the cylinder highly versatile and flexible, it also features first-class drilling/picking protection which makes it highly tamper-proof. The integrated copy-protection feature therefore provides that "ultimate security"!

The premium locking system

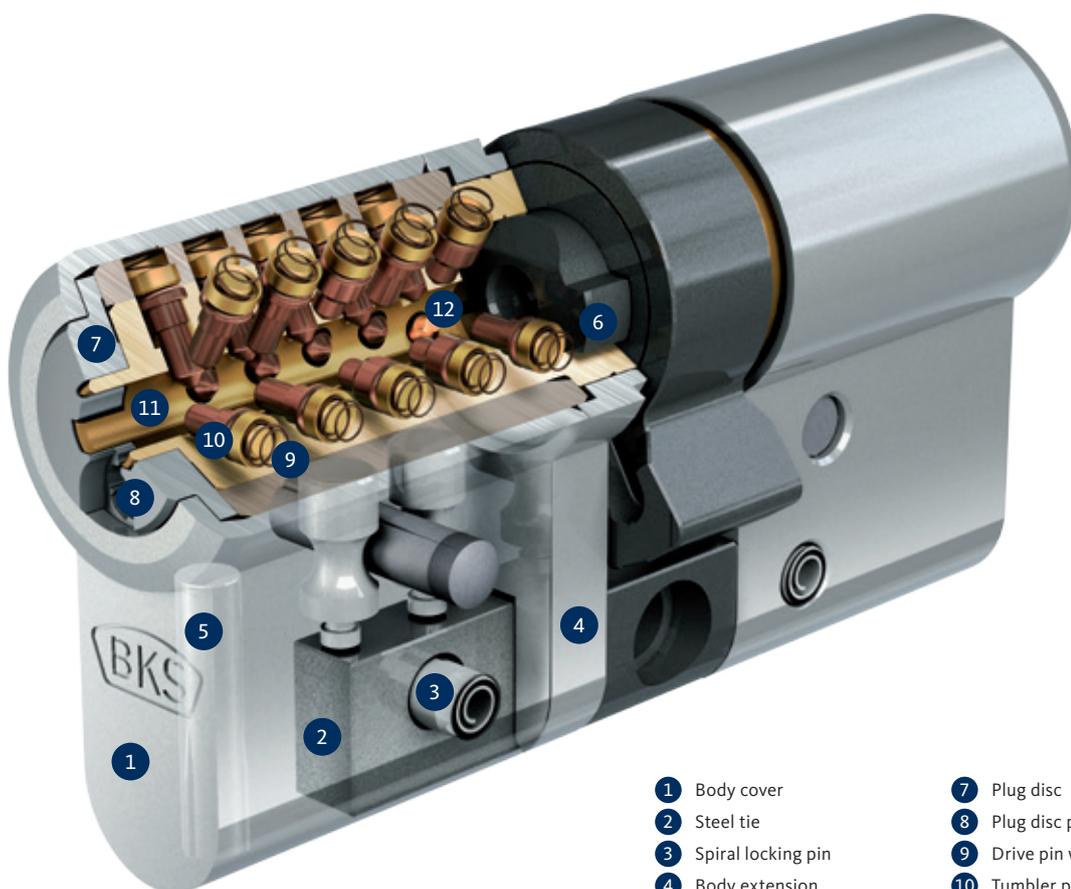
Security has many facets with janus. One of them is the new key duplication protection for the dimple key. With the janus cylinder, high security demands are met: a new precision locking mechanism provides wider key duplication protection – for cylinders with registered key bitting with security cards as standard.

Alongside providing keys and cylinders, the comprehensive service offer also ensures that you are always on the safe side with janus: our services make planning, ordering and managing keys and master key systems a breeze.

Conclusion: with the premium BKS locking system, security, flexibility and cost-effectiveness are brought into play.

Highlights

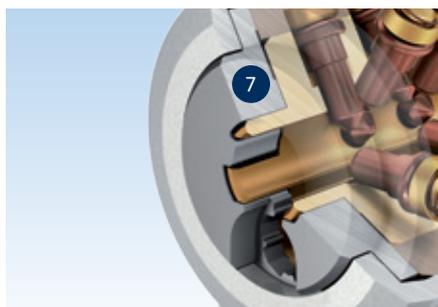
- More convenience, even with tall or heavy doors: the generous janus grip area means straightforward opening and closing via the cylinder
- Striking design: the red ball is a sign of BKS quality and accentuates the symmetry of the reversible key
- Great operation: the extended key shank makes janus well suited for security hardware with a cylinder cover
- Greater security: first-class drilling, picking and key duplication protection
- Simple operation: the symmetrical design and the familiar upright key position ensure an intuitive operation



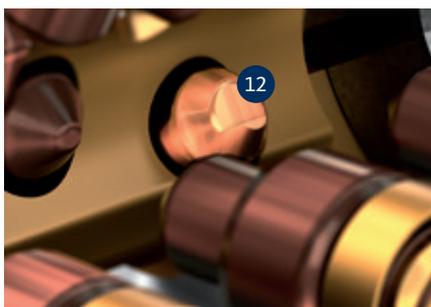
- | | |
|------------------------|----------------------------|
| 1 Body cover | 7 Plug disc |
| 2 Steel tie | 8 Plug disc profile |
| 3 Spiral locking pin | 9 Drive pin with spring |
| 4 Body extension | 10 Tumbler pin |
| 5 Drill protection pin | 11 Plug |
| 6 Coupling | 12 Copy protection feature |

The janus cylinder: the perfect combination of flexibility and protection against manipulation

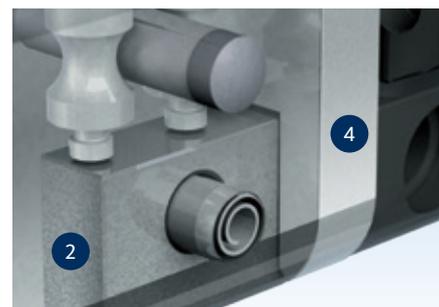
Sophisticated down to the last detail: several tumbler rows with different angular positions and variably arranged pairs of pins guarantee versatile locking combinations when implementing large and complex master key systems. This structure also effectively protects the cylinder plug against any manipulation attempts.



Anti-drill plate:
The plug disc reliably separates different profile groups and provides additional protection in the event of drilling attempts.



Copy protection feature:
The new fine mechanical locking mechanism makes the reproduction of janus difficult.



Modular design:
Thanks to the body extension, all cylinder lengths are instantly achievable. The connector ensures the optimum stability of the modular cylinder and protects against pulling attempts by absorbing the pull forces without breaking.



Double cylinder
Can also be subsequently and modularly adapted to the door thickness.



Half cylinder
Can be used universally in many additional locking devices through to an 8-way adjustable cam.



New cylinder thumbturn
The new design integrates with the look of high-quality hardware and modern doors.



Padlock
Also available with extra-thin or high shackles.



Cabinet lock
Can be combined with deadbolt locks or with espagnolette locks for high cabinet doors.



Cylinder cam lock
Suitable for various letter boxes with different locking levers.



Key with SE transponder
Function and design combine to form a universal access medium.



Assembly case
Contains all tools and parts for dismantling, extending and adapting the janus cylinder's coupling function.

One key for all eventualities

janus deploys its full potential, especially in master key systems. The complete product range of designs opens up many application possibilities. With the access authorisation of master keys, you also have the greatest possible handling leeway.

Additional locks: everything included in one solution

Here, the janus locking system offers a wide spectrum for all applications with its versatile product range of special locks, padlocks and cabinet locks.

Expansion through electronics – janus SE cylinder

With the janus SE cylinder, the janus reversible key system and the SE electronic locking system are combined to form a dual security unit. The janus SE cylinder combines the mechanical release of the key with an electronic identification and this causes the mechanical release in the cylinder.



Features and benefits of the janus reversible key system

With its high-quality standard equipment and a whole range of extra equipment, janus is highly flexible. It demonstrates its strengths particularly well in the industrial sector with complex master key systems as well as in the private sector with registered key bittings with security cards.



Standard equipment

- Tested in accordance with EN 1303 and DIN 18252
- Profile cylinder with several tumbler pin rows
- Long patent terms
- Bumping protection standard
- "Sandwich design" for variable cylinder lengths
- Keys of high-quality nickel silver with red glass ball as distinguishing feature
- Practical assembly case for adapting the cylinder length
- Knob cylinder standard with removable thumbturn
- Faceplate screw: M5 x 80 mm, nickel-plated steel
- Cylinder: nickel-plated brass (standard), bronzed, matt or polished brass
- Longer key shank

Extra equipment

- Cylinder with additional copy-protection feature with registered key bitting with security card as standard
- Cylinder with drill protection pin for registered key bitting with security card as standard
- Cylinder with emergency function for registered key bitting with security card as standard
- Cylinder body cover from stainless steel standard with VdS cylinders
- Seawater protected version standard with VdS cylinders
- Cylinder with dust cap
- Special shapes of the cylinder knob thumbturn, e.g. 'Fire brigade' knob
- Faceplate screw with Security Torx
- Freewheel function (FZG)

Technical data	
Order length (BL)	27, 31, 35 ... ascending in 5 mm steps up to 100 mm
Special lengths	cylinder up to a total length of 250 mm
Key bitting	registered key bitting, master key system
Cam	standard, multiple cams, special versions
Emergency function	optional for master key systems, on both sides from BL 31/31, on one side from BL 27/31
Freewheel function (FZG)	optional, from BL 31/31
Drilling protection	optional for master key systems, BZWA, BZWB
Drilling/picking protection	optional, BZWC, BZWD
DIN 18252	grade 80, optionally grade 82 (with BZWC)
Key related security according to EN 1303	grade 6
Resistance to attack according to EN 1303	grade 0, optionally grade 2 (with BZWC)
VdS variant	optional
SKG*** variant	optional

janus® reversible key system

Profile cylinder



janus®



	4600 Double cylinder	4602 Double cylinder, emergency function on one side	4612 Double cylinder, emergency function on both sides
Functions/Coupling			
Standard function	■		
Emergency function, on one side		■	
Emergency function, on both sides			■
Freewheel function, forced uncoupling			
Emergency key function			
Hierarchy function			
Finish			
Brass, nickel-plated	■	■	■
Matt brass	□	□	□
Burnished brass	□	□	□
Chrome-nickel steel	□	□	□
Thumbturn in matching colour			
Features			
SL system			
Abrasion-resistant plugs			
Dust cap	□	□	□
Protection against seawater	□	□	□
Key duplication protection		□*	□*
Drilling/picking protection			
Anti-drill plate			
Drilling protection	□*	□*	□*
Drilling/picking protection	□	□	□
Type			
Order lengths BL, mm	27/27, 27/31, 27/35, 31/31	27/31, 27/35	31/31
Outside with dummy plug			
Inside with dummy plug			
Fastening thread			
Earthing screw			
Lock indicator			
Thumbturn in different shape			
Cams			
Double locking cam	□	□	□
4-way cam	□	□	□
Cogwheel cam	□	□	□
Pinion cam	□	□	□
Cam special setting	□	□	□
Cam with 8 possible positions			
Cam, spring-loaded			

■ = standard □ = optional (□* = standard with registered key biting)



janus®



	4627 Double cylinder with freewheel function	4636 Double cylinder, one side dummy	4638 Double cylinder with freewheel function one side dummy
Functions/Coupling			
Standard function		■	
Emergency function, on one side			
Emergency function, on both sides			
Freewheel function, forced uncoupling	■		■
Emergency key function			
Hierarchy function			
Finish			
Brass, nickel-plated	■	■	■
Matt brass	□	□	□
Burnished brass	□	□	□
Chrome-nickel steel	□	□	□
Thumbturn in matching colour			
Features			
SL system			
Abrasion-resistant plugs			
Dust cap	□		
Protection against seawater	□		
Key duplication protection	□		
Drilling/picking protection			
Anti-drill plate			
Drilling protection	□*	□*	□*
Drilling/picking protection	□	□	□
Type			
Order lengths BL, mm	31/31	27/27, 27/31, 27/35, 31/31	31/31
Outside with dummy plug		■	■
Inside with dummy plug			
Fastening thread			
Earthing screw			
Lock indicator			
Thumbturn in different shape			
Cams			
Double locking cam			
4-way cam			
Cogwheel cam			
Pinion cam			
Cam special setting			
Cam with 8 possible positions			
Cam, spring-loaded			

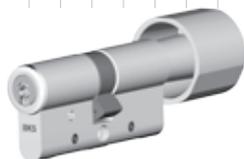
■ = standard □ = optional (□* = standard with registered key biting)

janus® reversible key system

Profile cylinder



janus®



	4606 Double cylinder with thumbturn	4601 Half cylinder	4626 Half cylinder with freewheel function
Functions/Coupling			
Standard function		■	
Emergency function, on one side	■		
Emergency function, on both sides			
Freewheel function, forced uncoupling			■
Emergency key function			
Hierarchy function			
Finish			
Brass, nickel-plated	■	■	■
Matt brass	□	□	□
Burnished brass	□	□	□
Chrome-nickel steel	□	□	□
Thumbturn in matching colour	■		
Features			
SL system			
Abrasion-resistant plugs			
Dust cap	□	□	□
Protection against seawater	□	□	□
Key duplication protection	□*	□	□
Drilling/picking protection			
Anti-drill plate			
Drilling protection	□*	□*	□*
Drilling/picking protection	□	□	□
Type			
Order lengths BL, mm	27/27, 27/31, 27/35, 31/31	27, 31	31
Outside with dummy plug			
Inside with dummy plug			
Fastening thread			
Earthing screw			
Lock indicator			
Thumbturn in different shape	□		
Cams			
Double locking cam	□	□	
4-way cam	□	□	
Cogwheel cam	□	□	
Pinion cam	□	□	
Cam special setting	□		
Cam with 8 possible positions		■	
Cam, spring-loaded			

■ = standard □ = optional (□* = standard with registered key biting)



janus®



4671
Half cylinder
with fastening threads

4695
Half cylinder
with spring-loaded locking
cam

4696
Half cylinder
with limited rotation

Functions/Coupling			
Standard function	■		
Emergency function, on one side			
Emergency function, on both sides			
Freewheel function, forced uncoupling			
Emergency key function			
Hierarchy function			
Finish			
Brass, nickel-plated	■	■	■
Matt brass	□	□	□
Burnished brass	□	□	□
Chrome-nickel steel	□	□	□
Thumbturn in matching colour			
Features			
SL system			
Abrasion-resistant plugs			
Dust cap	□		
Protection against seawater	□	□	□
Key duplication protection	□	□	□
Drilling/picking protection			
Anti-drill plate			
Drilling protection	□*	□*	□*
Drilling/picking protection	□	□	□
Type			
Order lengths BL, mm	27, 31	31	31
Outside with dummy plug			
Inside with dummy plug			
Fastening thread	M3, M4		
Earthing screw			
Lock indicator			
Thumbturn in different shape			
Cams			
Double locking cam			
4-way cam			
Cogwheel cam			
Pinion cam			
Cam special setting			
Cam with 8 possible positions	■		
Cam, spring-loaded		■	

■ = standard □ = optional (□* = standard with registered key bitting)

janus® reversible key system

Profile cylinder



janus®			
	4699 Half cylinder with fastening threads and earthing screw	4629 Locking parts, inside and outside, for registered key bitting	4630 Locking part, individual
Functions/Coupling			
Standard function	■		
Emergency function, on one side			
Emergency function, on both sides			
Freewheel function, forced uncoupling			
Emergency key function			
Hierarchy function			
Finish			
Brass, nickel-plated	■	■	■
Matt brass	□		
Burnished brass	□		
Chrome-nickel steel	□		
Thumbturn in matching colour			
Features			
SL system			
Abrasion-resistant plugs			
Dust cap	□		
Protection against seawater	□		
Key duplication protection	□	■	□
Drilling/picking protection			
Anti-drill plate			
Drilling protection	□*	■	□
Drilling/picking protection	□	□	□
Type			
Order lengths BL, mm	35	27	27
Outside with dummy plug			
Inside with dummy plug			
Fastening thread	M4		
Earthing screw	■		
Lock indicator			
Thumbturn in different shape			
Cams			
Double locking cam			
4-way cam			
Cogwheel cam			
Pinion cam			
Cam special setting			
Cam with 8 possible positions			
Cam, spring-loaded			

■ = standard □ = optional (□* = standard with registered key bitting)



janus®



	4640 Double cylinder Swiss round profile Ø 22	4641 Half cylinder Swiss round profile Ø 22	4643 Double cylinder Swiss round profile Ø 22 emergency function on one side
Functions/Coupling			
Standard function	■	■	
Emergency function, on one side			■
Emergency function, on both sides			
Freewheel function, forced uncoupling			
Emergency key function			
Hierarchy function			
Finish			
Brass, nickel-plated	■	■	■
Matt brass	□	□	□
Burnished brass	□	□	□
Chrome-nickel steel			
Thumbturn in matching colour			
Features			
SL system			
Abrasion-resistant plugs			
Dust cap	□	□	□
Protection against seawater	■	■	■
Key duplication protection			
Drilling/picking protection			
Anti-drill plate			
Drilling protection	□*	□*	□*
Drilling/picking protection			
Type			
Order lengths BL, mm	32/32	32	27/37, 32/32
Outside with dummy plug			
Inside with dummy plug			
Fastening thread			
Earthing screw			
Lock indicator			
Thumbturn in different shape			
Cams			
Double locking cam			
4-way cam			
Cogwheel cam			
Pinion cam			
Cam special setting			
Cam with 8 possible positions		■	
Cam, spring-loaded			

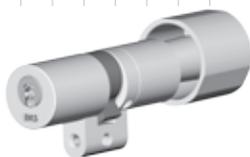
■ = standard □ = optional (□* = standard with registered key bitting)

janus® reversible key system

Swiss round cylinder



janus®



	4647 Double cylinder Swiss round cylinder Ø 22 with thumbturn	4648 Half cylinder Swiss round profile Ø 22 with thumbturn
Functions/Coupling		
Standard function		■
Emergency function, on one side	■	
Emergency function, on both sides		
Freewheel function, forced uncoupling		
Emergency key function		
Hierarchy function		
Finish		
Brass, nickel-plated	■	■
Matt brass	□	□
Burnished brass	□	□
Chrome-nickel steel		
Thumbturn in matching colour	□	□
Features		
SL system		
Abrasion-resistant plugs		
Dust cap	□	
Protection against seawater	□	□
Key duplication protection	□*	
Drilling/picking protection		
Anti-drill plate		
Drilling protection	□*	
Drilling/picking protection		
Type		
Order lengths BL, mm	27/37, 32/32	32
Outside with dummy plug		
Inside with dummy plug		
Fastening thread		
Earthing screw		
Lock indicator		
Thumbturn in different shape	□	□
Cams		
Double locking cam		
4-way cam		
Cogwheel cam		
Pinion cam		
Cam special setting		
Cam with 8 possible positions		■
Cam, spring-loaded		

■ = standard □ = optional (□* = standard with registered key bitting)



janus®



4609
Rim cylinder Ø 32
for rim lock

4610
Rim cylinder Ø 32
for rim lock

4624
Inside cylinder Ø 32
for rim lock

	4609 Rim cylinder Ø 32 for rim lock	4610 Rim cylinder Ø 32 for rim lock	4624 Inside cylinder Ø 32 for rim lock
Locking function			
Key rotation			
Locking lever rotation			
Rotation without stop	■	■	■
Withdrawal of key in locked position only			
Withdrawal of key in locked/open position			
With feed function			
Finish			
Brass, nickel-plated	■	■	■
Matt brass	□		□
Burnished brass	□		□
Features			
SL system			
Abrasion-resistant plugs			
Dust cap	□	□	□
Protection against seawater			
Copy protection, spline shaft			
With anti-twist safeguard			
Without integral restraint			
With integral restraint			
Drilling/picking protection			
Anti-drill plate			
Drilling protection	□*	□*	□*
Drilling/picking protection			
Type			
Order lengths BL, mm			
Functional length, mm	25	depending on tube length	29
Height of shackle 35 mm			
Height of shackle 50 mm or 125 mm			
Body flattened at top			
Body flattened at the side			
Thread			
With microswitch			
Application			
Door thickness, mm	from 28	< 28	not specified
For deadbolt lock 4929			
For espagnolette/deadbolt lock 4919/4920			
For rim lock 4445			■
For rim lock 4460, 4470			■

■ = standard □ = optional (□* = standard with registered key bitting)

janus® reversible key system

Rim cylinder



janus®



	4644 Rim cylinder Ø 32 for rim lock	4645 Rim cylinder Ø 32 for rim lock	4660 Rim cylinder Ø 32 for rim lock
Locking function			
Key rotation			
Locking lever rotation			
Rotation without stop	■	■	■
Withdrawal of key in locked position only			
Withdrawal of key in locked/open position			
With feed function			
Finish			
Brass, nickel-plated	■	■	■
Matt brass	□	□	□
Burnished brass	□	□	□
Features			
SL system			
Abrasion-resistant plugs	□	□	
Dust cap			□
Protection against seawater			
Copy protection, spline shaft			
With anti-twist safeguard			
Without integral restraint			
With integral restraint			
Drilling/picking protection			
Anti-drill plate			
Drilling protection	□*	□*	□*
Drilling/picking protection			
Type			
Order lengths BL, mm			
Functional length, mm	25	25	25
Height of shackle 35 mm			
Height of shackle 50 mm or 125 mm			
Body flattened at top			
Body flattened at the side	■		
Thread			
With microswitch			
Application			
Door thickness, mm	from 32	from 28	from 32
For deadbolt lock 4929			
For espagnolette/deadbolt lock 4919/4920			
For rim lock 4445	■		
For rim lock 4460, 4470			■

■ = standard □ = optional (□* = standard with registered key biting)



janus®



4646
Cylinder cam lock Ø 32
with limited rotation

4666
Cylinder cam lock Ø 32

4676
Cylinder cam lock Ø 32
with limited rotation

	4646 Cylinder cam lock Ø 32 with limited rotation	4666 Cylinder cam lock Ø 32	4676 Cylinder cam lock Ø 32 with limited rotation
Locking function			
Key rotation	360°	90°	360°
Locking lever rotation	90°	90°	90°
Rotation without stop			
Withdrawal of key in locked position only		■	
Withdrawal of key in locked/open position	■		■
With feed function			
Finish			
Brass, nickel-plated	■	■	■
Matt brass	□	□	□
Burnished brass	□	□	□
Features			
SL system			
Abrasion-resistant plugs			
Dust cap	□	□	□
Protection against seawater			
Copy protection, spline shaft			
With anti-twist safeguard			
Without integral restraint			
With integral restraint			
Drilling/picking protection			
Anti-drill plate			
Drilling protection	□*	□*	□*
Drilling/picking protection			
Type			
Order lengths BL, mm			
Functional length, mm	29	29	29
Height of shackle 35 mm			
Height of shackle 50 mm or 125 mm			
Body flattened at top	■		
Body flattened at the side		■	■
Thread	M30	M28	M28
With microswitch			
Application			
Door thickness, mm			
For deadbolt lock 4929			
For espagnolette/deadbolt lock 4919/4920			
For rim lock 4445			
For rim lock 4460, 4470			

■ = standard □ = optional (□* = standard with registered key biting)

janus® reversible key system

Cylinder cam lock, cylinder lock, switching cylinder



janus®



	4685 Cylinder cam lock Ø 32	4664 Cylinder lock Ø 32 for fully glazed/timber sliding doors	4687 Switching cylinder Ø 24
Locking function			
Key rotation	90°		90°
Locking lever rotation	90°		
Rotation without stop			
Withdrawal of key in locked position only	■	□	
Withdrawal of key in locked/open position		■	
With feed function		■	
Finish			
Brass, nickel-plated	■	■	■
Matt brass	□		
Burnished brass	□		
Features			
SL system			
Abrasion-resistant plugs			
Dust cap	□	□	□
Protection against seawater			
Copy protection, spline shaft			
With anti-twist safeguard	□		
Without integral restraint			
With integral restraint		□	
Drilling/picking protection			
Anti-drill plate			
Drilling protection	□*	□*	□*
Drilling/picking protection			
Type			
Order lengths BL, mm			
Functional length, mm	29	48 / 58	55
Height of shackle 35 mm			
Height of shackle 50 mm or 125 mm			
Body flattened at top	■		
Body flattened at the side			■
Thread	M30	M30	M22
With microswitch			■
Application			
Door thickness, mm		up to 38	
For deadbolt lock 4929			
For espagnolette/deadbolt lock 4919/4920			
For rim lock 4445			
For rim lock 4460, 4470			

■ = standard □ = optional (□* = standard with registered key biting)



janus®



	4621 Lockable turn handle for furniture locks	4628 Padlock
Locking function		
Key rotation	360°	
Locking lever rotation		
Rotation without stop		
Withdrawal of key in locked position only		
Withdrawal of key in locked/open position	■	■
With feed function		
Finish		
Brass, nickel-plated		
Matt brass	■	■
Burnished brass		
Features		
SL system		
Abrasion-resistant plugs		
Dust cap		□
Protection against seawater		■
Copy protection, spline shaft		
With anti-twist safeguard		
Without integral restraint		■
With integral restraint		□
Drill protection / picking protection		
Anti-drill plate		
Drilling protection	□*	□*
Drilling/picking protection		
Type		
Order lengths BL, mm		
Functional length, mm		
Height of shackle 35 mm		■
Height of shackle 50 mm or 125 mm		□
Body flattened at top		
Body flattened at the side		
Thread		
With microswitch		
Application		
Door thickness, mm		
For deadbolt lock 4929		
For espagnolette/deadbolt lock 4919/4920		
For rim lock 4445		
For rim lock 4460, 4470		

■ = standard □ = optional (□* = standard with registered key biting)

janus® reversible key system

Furniture lock cylinder



janus®

	4614 Furniture lock cylinder Ø 28	4617 Furniture lock cylinder Ø 28
Locking function		
Key rotation		
Locking lever rotation		
Rotation without stop	■	■
Withdrawal of key in locked position only		
Withdrawal of key in locked/open position		
With feed function		
Finish		
Brass, nickel-plated	■	■
Matt brass	□	□
Burnished brass	□	□
Features		
SL system		
Abrasion-resistant plugs		
Dust cap		□
Protection against seawater		
Copy protection, spline shaft		
With anti-twist safeguard		
Without integral restraint		
With integral restraint		
Drilling/picking protection		
Anti-drill plate		
Drilling protection	□*	□*
Drilling/picking protection		
Type		
Order lengths BL, mm		
Functional length, mm	26	26
Height of shackle 35 mm		
Height of shackle 50 mm or 125 mm		
Body flattened at top		
Body flattened at the side		
Thread		
With microswitch		
Application		
Door thickness, mm		
For deadbolt lock 4929	■	
For espagnolette/deadbolt lock 4919/4920		■
For rim lock 4445		
For rim lock 4460, 4470		

■ = standard □ = optional (□* = standard with registered key bitting)

livius® reversible key system



livius®



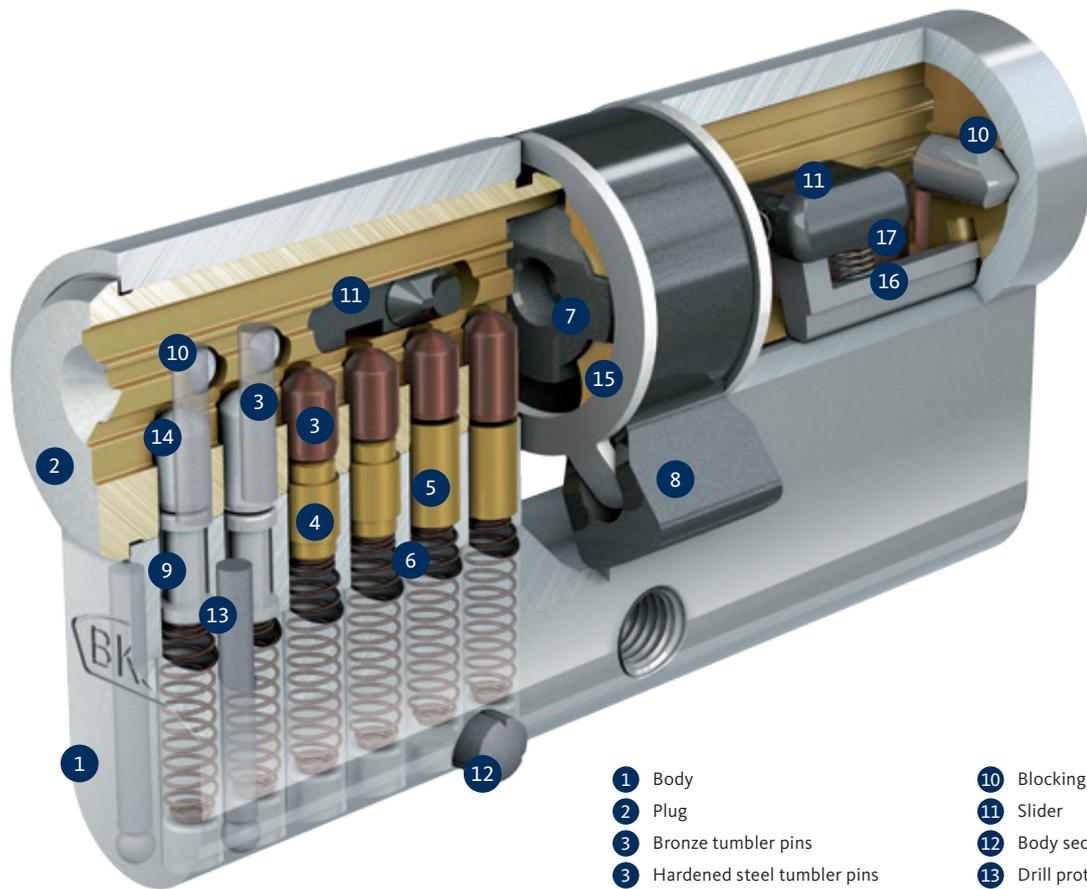
Double-side key insertion ensures highly convenient operation which is increased in the livius SL system by an innovative channel for slider for effective key duplication protection. With a patent term lasting until 2024, the livius® reversible key system offers security you can count on.

The modern locking system

With high-quality reversible key technology and a wide portfolio of cylinders, livius is particularly well suited for registered key bittings with security card and for medium-sized master key systems in the private or industrial sector. By combining cylinders with and without a locking bar in master key systems, it is possible to establish different security levels according to requirements. The locking bars are an additional system in which the locking cylinders can be fitted with lateral locking elements. The related query mechanisms provide exceptionally high mechanical key duplication protection.

Highlights

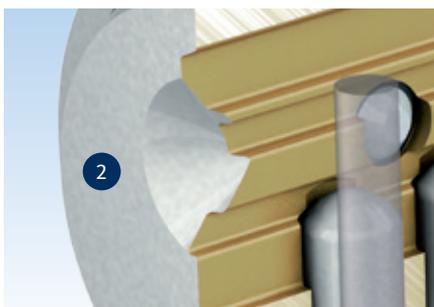
- Highly flexible: cylinders with and without a locking bar can be combined so that different security levels can be established within one master key system
- More convenience, even with tall or heavy doors: the generous grip area of livius means straightforward opening and closing via the cylinder
- Striking design: the blue ball is a sign of BKS quality and accentuates the symmetry of the reversible key
- Great operation: the extended key shank makes livius well suited for security hardware with a cylinder cover
- Simple operation: the symmetrical design and the familiar upright key position ensure an intuitive operation



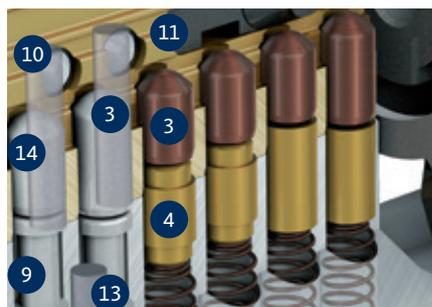
- | | |
|---|--------------------------------|
| 1 Body | 10 Blocking pin |
| 2 Plug | 11 Slider |
| 3 Bronze tumbler pins | 12 Body security pin |
| 3 Hardened steel tumbler pins | 13 Drill protection pin, body |
| 4 Drive pin, cylindrical offset | 14 Drill protection pins, plug |
| 5 Drive pin, cylindrical | 15 Retaining ring |
| 6 Drive springs | 16 Locking bar |
| 7 Coupling | 17 Springs |
| 8 Cam | |
| 9 Drive pin, mushroom cam, hardened steel | |

Cylinder construction

livius locking cylinders are based on the tried-and-tested single-row pin arrangement and impress with their modern reverse key technology. The locking system has 6 separate pin tumblers as standard. The cylinders are suitable for a wide range of applications and are available in different function variations.



Easy operation: plug with reversible key profile and key channel for better insertion.



Security package: picking and drill protection pins together with lateral scanning locks form an effective security package.



Special functions: different shapes of coupling enable important features such as emergency and freewheel function.

livius® product range



livius®



Double cylinder

Available as standard cylinder with special cams or with additional features.



Half cylinder

Can be used universally in many additional locking devices.



Padlock

Also available with extra-thin or high shackles.



Cylinder cam lock

Suitable for various letter boxes with different locking levers.



Switching cylinder

With microswitches for controlling external electronic control devices.



Rim cylinder

Locks or unlocks rim locks from the outside of the door.



Knob cylinder

The cylinder thumbturn can be selected, exchanged and replaced.



Key with SE transponder

Function and design combine to form a universal access medium.

One key for all eventualities

The livius reversible key system offers high-quality reversible key technology for registered key biting with a security card and for medium-sized master key systems in the private or industrial sector.

Additional locks: a lot in one solution

The livius locking system offers a broad spectrum for the most important applications as part of its product range of cylinder cam locks, padlocks as well as switching, rim and knob cylinders

Expansion through electronics – SE double knob cylinder

As keys can be combined with the SE transponder clip, electronic, SE knob cylinders are a worthwhile addition to livius master key systems.



Features and benefits of the livius reversible key system

Perfectly suited to master key systems with linear design, the livius locking system impresses with its range of technical application possibilities.



Standard equipment

- Tested in accordance with EN 1303 and DIN 18252
- Bumping protection standard
- 6-pin profile cylinder
- Patented profile series with hidden wavy cutouts
- Cylinder body: nickel-plated brass, matt, polished or bronzed
- Key made of high-quality nickel silver with blue glass ball as distinguishing feature
- Faceplate screw: M5 x 80 mm, nickel-plated steel (optionally brass)
- Key combinable with SE transponder
- Longer key shank

Extra equipment

- With additional spring-loaded slider, locking pin and locking bar in the cylinder plug (system SL)
- Cylinder with and without locking slider (system SL) can be combined in master key systems
- The innovative channel for slider in the key ensures exceptionally secure copy protection
- Multiple key bittings through combinations of the locking elements
- Cylinders with protection against seawater
- Freewheel function (FZG)
- Emergency function (GF)
- Special faceplate screw with Security Torx

Technical data	
Order length (BL)	31, 35, 40 ... ascending in 5 mm steps up to 95 mm
Special lengths	max. 250 mm
Key bitting	registered key bitting, master key system
Cam	standard, special versions
Emergency function	optional, on both sides from BL 31/31
Freewheel function (FZG)	optional, from BL 35/35
Drilling protection	optional for master key systems, BSKA, BSKB
Drilling/picking protection	optional, BZKB
DIN 18252	Grade 80, optionally grade 82-BS (with BSKA), grade 82-BZ (with BZKB)
Key related security according to EN 1303	grade 6
Resistance to attack according to EN 1303	grade 0, optionally grade 2 (with BZKB)
VdS variant	-
SKG** variant	optional
A2P*	optional

livius® reversible key system

Profile cylinder



livius®

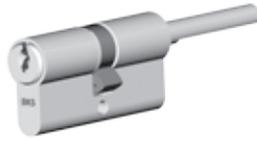


	5000 Double cylinder	5027 Double cylinder with freewheel function	5012 Double cylinder, emergency function on both sides
Functions/Coupling			
Standard function	■		
Emergency function, on one side			
Emergency function, on both sides			■
Freewheel function, forced uncoupling		■	
Emergency key function			
Hierarchy function			
Finish			
Brass, nickel-plated	■	■	■
Matt brass	□	□	□
Burnished brass	□	□	□
Chrome-nickel steel			
Thumbturn in matching colour			
Features			
SL system			
Abrasion-resistant plugs	□	□	□
Dust cap	□	□	□
Protection against seawater	□	□	□
Key duplication protection			
Drilling/picking protection			
Anti-drill plate	■	■	■
Drilling protection	□	□	□
Drilling/picking protection	□	□	□
Type			
Order lengths BL, mm	31/31	35/35	31/31
Outside with dummy plug			
Inside with dummy plug			
Fastening thread			
Earthing screw			
Lock indicator			
Thumbturn in different shape			
Cams			
Double locking cam	□		□
4-way cam	□		□
Cogwheel cam	□		□
Pinion cam	□		□
Cam special setting	□		□
Cam with 8 possible positions			
Cam, spring-loaded			

■ = standard □ = optional



livius®



	5011 Double cylinder with spindle	5037 Double cylinder one side dummy	5068 Double cylinder with freewheel function one side dummy
Functions/Coupling			
Standard function		■	
Emergency function, on one side	■		
Emergency function, on both sides			
Freewheel function, forced uncoupling			■
Emergency key function			
Hierarchy function			
Finish			
Brass, nickel-plated	■	■	■
Matt brass	□	□	□
Burnished brass	□	□	□
Chrome-nickel steel			
Thumbturn in matching colour			
Features			
SL system			
Abrasion-resistant plugs	□		
Dust cap	□		
Protection against seawater	□	□	□
Key duplication protection			
Drilling/picking protection			
Anti-drill plate	■	■	■
Drilling protection	□	□	□
Drilling/picking protection	□	□	□
Type			
Order lengths BL, mm	31/31	31/31	31/35
Outside with dummy plug		■	■
Inside with dummy plug			
Fastening thread			
Earthing screw			
Lock indicator			
Thumbturn in different shape			
Cams			
Double locking cam	□		
4-way cam	□		
Cogwheel cam	□		
Pinion cam	□		
Cam special setting	□		
Cam with 8 possible positions			
Cam, spring-loaded			

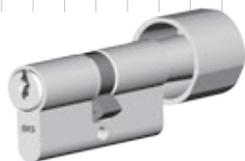
■ = standard □ = optional

livius® reversible key system

Profile cylinder



livius®



	5006 Double cylinder with thumbturn	5001 Half cylinder	5023 Half cylinder with freewheel function
Functions/Coupling			
Standard function		■	
Emergency function, on one side	■		
Emergency function, on both sides			
Freewheel function, forced uncoupling			■
Emergency key function			
Hierarchy function			
Finish			
Brass, nickel-plated	■	■	■
Matt brass	□	□	□
Burnished brass	□	□	□
Chrome-nickel steel			
Thumbturn in matching colour	■		
Features			
SL system			
Abrasion-resistant plugs	□	□	□
Dust cap	□	□	□
Protection against seawater	□	□	□
Key duplication protection			
Drilling/picking protection			
Anti-drill plate	■	■	■
Drilling protection	□	□	□
Drilling/picking protection	□	□	□
Type			
Order lengths BL, mm	31/31	31	35
Outside with dummy plug			
Inside with dummy plug			
Fastening thread			
Earthing screw			
Lock indicator			
Thumbturn in different shape	□		
Cams			
Double locking cam	□	□	
4-way cam	□	□	
Cogwheel cam	□	□	
Pinion cam	□	□	
Cam special setting	□		
Cam with 8 possible positions		■	
Cam, spring-loaded			

■ = standard □ = optional



livius®		
	5071 Half cylinder with fastening threads	5099 Half cylinder with fastening threads and earthing screw
Functions/Coupling		
Standard function	■	■
Emergency function, on one side		
Emergency function, on both sides		
Freewheel function, forced uncoupling		
Emergency key function		
Hierarchy function		
Finish		
Brass, nickel-plated	■	■
Matt brass	□	□
Burnished brass	□	□
Chrome-nickel steel		
Thumbturn in matching colour		
Features		
SL system		
Abrasion-resistant plugs		
Dust cap	□	□
Protection against seawater	□	□
Key duplication protection		
Drilling/picking protection		
Anti-drill plate	■	■
Drilling protection	□	□
Drilling/picking protection		
Type		
Order lengths BL, mm	31	35
Outside with dummy plug		
Inside with dummy plug		
Fastening thread	M3, M4	M4
Earthing screw		■
Lock indicator		
Thumbturn in different shape		
Cams		
Double locking cam		
4-way cam		
Cogwheel cam		
Pinion cam		
Cam special setting		
Cam with 8 possible positions	■	
Cam, spring-loaded		

■ = standard □ = optional

livius® reversible key system

Cylinder cam lock



livius®



	5066 Cylinder cam lock Ø 32	5076 Cylinder cam lock Ø 32 with limited rotation	5085 Cylinder cam lock Ø 32
Locking function			
Key rotation	90°	360°	90°
Locking lever rotation	90°	90°	90°
Rotation without stop			
Withdrawal of key in locked position only	■		■
Withdrawal of key in locked/open position		■	
With feed function			
Finish			
Brass, nickel-plated	■	■	■
Matt brass	□	□	□
Burnished brass	□	□	□
Features			
SL system			
Abrasion-resistant plugs			
Dust cap	□	□	□
Protection against seawater			
Key duplication protection			
With anti-twist safeguard			□
Without integral restraint			
With integral restraint			
Drilling/picking protection			
Anti-drill plate	■	■	■
Drilling protection	□	□	□
Drilling/picking protection			
Type			
Order lengths BL, mm			
Functional length, mm	29	29	29
Height of shackle 35 mm			
Height of shackle 50 mm or 125 mm			
Body flattened at top			■
Body flattened at the side	■	■	
Thread	M28	M28	M30
With microswitch			
Application			
Door thickness, mm			
For deadbolt lock 4929			
For espagnolette/deadbolt lock 4919/4920			
For rim lock 4445			
For rim lock 4460, 4470			

■ = standard □ = optional



livius®			
	5009 Rim cylinder Ø 32 for rim lock	5010 Rim cylinder Ø 32 for rim lock	5024 Inside cylinder Ø 32 for rim lock
Locking function			
Key rotation			
Locking lever rotation			
Rotation without stop	■	■	■
Withdrawal of key in locked position only			
Withdrawal of key in locked/open position			
With feed function			
Finish			
Brass, nickel-plated	■	■	■
Matt brass	□		□
Burnished brass	□		□
Features			
SL system			
Abrasion-resistant plugs			
Dust cap	□	□	□
Protection against seawater			
Key duplication protection			
With anti-twist safeguard			
Without integral restraint			
With integral restraint			
Drilling/picking protection			
Anti-drill plate	■	■	■
Drilling protection	□	□	□
Drilling/picking protection			
Type			
Order lengths BL, mm			
Functional length, mm	30	depending on tube length	30
Height of shackle 35 mm			
Height of shackle 50 mm or 125 mm			
Body flattened at top			
Body flattened at the side			
Thread			
With microswitch			
Application			
Door thickness, mm	from 32	from 31	not specified
For deadbolt lock 4929			
For espagnolette/deadbolt lock 4919/4920			
For rim lock 4445		■	■
For rim lock 4460, 4470			■

■ = standard □ = optional

livius® reversible key system

Rim cylinder



livius®	5044 Rim cylinder Ø 32 for rim lock	5060 Rim cylinder Ø 32 for rim lock
Locking function		
Key rotation		
Locking lever rotation		
Rotation without stop	■	■
Withdrawal of key in locked position only		
Withdrawal of key in locked/open position		
With feed function		
Finish		
Brass, nickel-plated	■	■
Matt brass	□	□
Burnished brass	□	□
Features		
SL system		
Abrasion-resistant plugs		
Dust cap	□	□
Protection against seawater		
Key duplication protection		
With anti-twist safeguard		
Without integral restraint		
With integral restraint		
Drilling/picking protection		
Anti-drill plate	■	■
Drilling protection	□	□
Drilling/picking protection		
Type		
Order lengths BL, mm		
Functional length, mm	28	28
Height of shackle 35 mm		
Height of shackle 50 mm or 125 mm		
Body flattened at top		
Body flattened at the side		
Thread		
With microswitch		
Application		
Door thickness, mm	32	32
For deadbolt lock 4929		
For espagnolette/deadbolt lock 4919/4920		
For rim lock 4445	■	
For rim lock 4460, 4470		■

■ = standard □ = optional



livius®



	5028 Padlock	5087 Switching cylinder Ø 32
Locking function		
Key rotation		90°
Locking lever rotation		
Rotation without stop		
Withdrawal of key in locked position only		
Withdrawal of key in locked/open position	■	
With feed function		
Finish		
Brass, nickel-plated		■
Matt brass	■	
Burnished brass		
Features		
SL system		
Abrasion-resistant plugs		
Dust cap	□	□
Protection against seawater	■	
Key duplication protection		
With anti-twist safeguard		
Without integral restraint	■	
With integral restraint	□	
Drilling/picking protection		
Anti-drill plate		■
Drilling protection		□
Drilling/picking protection		
Type		
Order lengths BL, mm		
Functional length, mm		64
Height of shackle 35 mm	■	
Height of shackle 50 mm or 125 mm	□	
Body flattened at top		
Body flattened at the side		
Thread		M28
With microswitch		■
Application		
Door thickness, mm		
For deadbolt lock 4929		
For espagnolette/deadbolt lock 4919/4920		
For rim lock 4445		
For rim lock 4460, 4470		

■ = standard □ = optional

livius® reversible key system

Service cylinder



livius®



	5090 Double cylinder	5093 Double cylinder, emergency function on both sides	5096 Double cylinder with thumbturn
Functions/Coupling			
Standard function	■		■
Emergency function, on one side			
Emergency function, on both sides		■	
Freewheel function, forced uncoupling			
Emergency key function			
Hierarchy function			
Finish			
Brass, nickel-plated	■	■	■
Matt brass	□	□	□
Burnished brass	□	□	□
Chrome-nickel steel			
Thumbturn in matching colour			■
Features			
SL system			
Abrasion-resistant plugs			□
Dust cap			□
Protection against seawater			□
Copy protection, spline shaft			
Drilling/picking protection			
Anti-drill plate	■	■	■
Drilling protection	□	□	□
Drilling/picking protection	□	□	□
Type			
Order lengths BL, mm	31/31	31/31	31/27
Outside with dummy plug			
Inside with dummy plug			
Fastening thread			
Earthing screw			
Lock indicator			
Thumbturn in different shape			□
Cams			
Double locking cam			□
4-way cam			□
Cogwheel cam			□
Pinion cam			□
Cam special setting			□
Cam with 8 possible positions			
Cam, spring-loaded			

■ = standard □ = optional



livius®	
	5091 Half cylinder
Functions/Coupling	
Standard function	<input checked="" type="checkbox"/>
Emergency function, on one side	
Emergency function, on both sides	
Freewheel function, forced uncoupling	
Emergency key function	
Hierarchy function	
Finish	
Brass, nickel-plated	<input checked="" type="checkbox"/>
Matt brass	<input type="checkbox"/>
Burnished brass	<input type="checkbox"/>
Chrome-nickel steel	
Thumbturn in matching colour	
Features	
SL system	
Abrasion-resistant plugs	
Dust cap	
Protection against seawater	
Copy protection, spline shaft	
Drilling/picking protection	
Anti-drill plate	<input checked="" type="checkbox"/>
Drilling protection	<input type="checkbox"/>
Drilling/picking protection	<input type="checkbox"/>
Type	
Order lengths BL, mm	31
Outside with dummy plug	
Inside with dummy plug	
Fastening thread	
Earthing screw	
Lock indicator	
Thumbturn in different shape	
Cams	
Double locking cam	
4-way cam	
Cogwheel cam	
Pinion cam	
Cam special setting	
Cam with 8 possible positions	<input checked="" type="checkbox"/>
Cam, spring-loaded	

= standard = optional

livius® SL reversible key system

Profile cylinder



livius®



	5150 Double cylinder	5152 Double cylinder, emergency function on both sides	5157 Double cylinder one side dummy
Functions/Coupling			
Standard function	■		■
Emergency function, on one side			
Emergency function, on both sides		■	
Freewheel function, forced uncoupling			
Emergency key function			
Hierarchy function			
Finish			
Brass, nickel-plated	■	■	■
Matt brass	□	□	□
Burnished brass	□	□	□
Chrome-nickel steel			
Thumbturn in matching colour			
Features			
SL system	■	■	■
Abrasion-resistant plugs			
Dust cap	□	□	
Protection against seawater	□	□	
Copy protection, spline shaft			
Drilling/picking protection			
Anti-drill plate	■	■	■
Drilling protection	□	□	□
Drilling/picking protection	□	□	□
Type			
Order lengths BL, mm	31/31	31/31	31/31
Outside with dummy plug			■
Inside with dummy plug			
Fastening thread			
Earthing screw			
Lock indicator			
Thumbturn in different shape			
Cams			
Double locking cam	□	from BL 35	
4-way cam	□	□	
Cogwheel cam	□	□	
Pinion cam	□	□	
Cam special setting	□		
Cam with 8 possible positions			
Cam, spring-loaded			

■ = standard □ = optional



livius®			
	5165 Double cylinder with freewheel function	5168 Double cylinder with freewheel function one side dummy	5156 Double cylinder with thumbturn
Functions/Coupling			
Standard function			
Emergency function, on one side			■
Emergency function, on both sides			
Freewheel function, forced uncoupling	■	■	
Emergency key function			
Hierarchy function			
Finish			
Brass, nickel-plated	■	■	■
Matt brass	□	□	□
Burnished brass	□	□	□
Chrome-nickel steel			
Thumbturn in matching colour			■
Features			
SL system	■	■	■
Abrasion-resistant plugs			□
Dust cap	□		□
Protection against seawater	□		□
Copy protection, spline shaft			
Drilling/picking protection			
Anti-drill plate	■	■	■
Drilling protection	□	□	□
Drilling/picking protection	□	□	□
Type			
Order lengths BL, mm	35/35	31/35	31/27
Outside with dummy plug		■	
Inside with dummy plug			
Fastening thread			
Earthing screw			
Lock indicator			
Coloured knob			□
Cams			
Double locking cam			□
4-way cam			□
Cogwheel cam			□
Pinion cam			□
Cam special setting			□
Cam with 8 possible positions			
Cam, spring-loaded			

■ = standard □ = optional

livius® SL reversible key system

Profile cylinder



livius®



	5151 Half cylinder	5161 Half cylinder with freewheel function	5199 Half cylinder with fastening threads and earthing screw
Functions/Coupling			
Standard function	■		■
Emergency function, on one side			
Emergency function, on both sides			
Freewheel function, forced uncoupling		■	
Emergency key function			
Hierarchy function			
Finish			
Brass, nickel-plated	■	■	■
Matt brass	□	□	□
Burnished brass	□	□	□
Chrome-nickel steel			
Thumbturn in matching colour			
Features			
SL system	■	■	■
Abrasion-resistant plugs			
Dust cap	□	□	□
Protection against seawater	□	□	□
Copy protection, spline shaft			
Drilling/picking protection			
Anti-drill plate	■	■	■
Drilling protection	□	□	□
Drilling/picking protection	□	□	□
Type			
Order lengths BL, mm	31	35	35
Outside with dummy plug			
Inside with dummy plug			
Fastening thread			■
Earthing screw			■
Lock indicator			
Thumbturn in different shape			
Cams			
Double locking cam			
4-way cam			
Cogwheel cam			
Pinion cam			
Cam special setting			
Cam with 8 possible positions	■		
Cam, spring-loaded			

■ = standard □ = optional



livius®



	5159 Rim cylinder Ø 32 for rim lock	5160 Rim cylinder Ø 32 for rim lock	5164 Rim cylinder Ø 32 for rim lock
Locking function			
Key rotation			
Locking lever rotation			
Rotation without stop	■	■	■
Withdrawal of key in locked position only			
Withdrawal of key in locked/open position			
With feed function			
Finish			
Brass, nickel-plated	■	■	■
Matt brass	□	□	□
Burnished brass	□	□	□
Features			
SL system	■	■	■
Abrasion-resistant plugs			
Dust cap	□	□	□
Protection against seawater			
Copy protection, spline shaft			
With anti-twist safeguard			
Without integral restraint			
With integral restraint			
Drilling/picking protection			
Anti-drill plate	■	■	■
Drilling protection	□	□	□
Drilling/picking protection			
Type			
Order lengths BL, mm			
Functional length, mm	30	30	30
Height of shackle 35 mm			
Height of shackle 50 mm or 125 mm			
Body flattened at top			
Body flattened at the side			■
Thread			
With microswitch			
Application			
Door thickness, mm	from 32	from 32	from 32
For deadbolt lock 4929			
For espagnolette/deadbolt lock 4919/4920			
For rim lock 4445			■
For rim lock 4460, 4470		■	

■ = standard □ = optional

livius® SL reversible key system

Cylinder cam lock, padlock

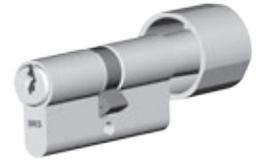


livius®	5166 Cylinder cam lock Ø 32	5158 Padlock
Locking function		
Key rotation	90°	
Locking lever rotation	90°	
Rotation without stop		
Withdrawal of key in locked position only	■	
Withdrawal of key in locked/open position		■
With feed function		
Finish		
Brass, nickel-plated	■	
Matt brass	□	■
Burnished brass	□	
Features		
SL system	■	■
Abrasion-resistant plugs		
Dust cap	□	□
Protection against seawater		■
Copy protection, spline shaft		
With anti-twist safeguard		
Without integral restraint		■
With integral restraint		□
Drilling/picking protection		
Anti-drill plate	■	
Drilling protection	□	
Drilling/picking protection		
Type		
Order lengths BL, mm		
Functional length, mm	29	
Height of shackle 35 mm		■
Height of shackle 50 mm or 125 mm		□
Body flattened at top		
Body flattened at the side	■	
Thread	M28	
With microswitch		
Application		
Door thickness, mm		
For deadbolt lock 4929		
For espagnolette/deadbolt lock 4919/4920		
For rim lock 4445		
For rim lock 4460, 4470		

■ = standard □ = optional



livius®



	5190 Double cylinder	5193 Double cylinder, emergency function on both sides	5196 Double cylinder with thumbturn
Functions/Coupling			
Standard function	■		
Emergency function, on one side			■
Emergency function, on both sides		■	
Freewheel function, forced uncoupling			
Emergency key function			
Hierarchy function			
Finish			
Brass, nickel-plated	■	■	■
Matt brass	□	□	□
Burnished brass	□	□	□
Chrome-nickel steel			
Thumbturn in matching colour			■
Features			
SL system	■	■	■
Abrasion-resistant plugs			□
Dust cap			□
Protection against seawater			□
Copy protection, spline shaft			
Drilling/picking protection			
Anti-drill plate	■	■	■
Drilling protection	□	□	□
Drilling/picking protection	■	■	□
Type			
Order lengths BL, mm	31/31	31/31	31/27
Outside with dummy plug			
Inside with dummy plug			
Fastening thread			
Earthing screw			
Lock indicator			
Thumbturn in different shape			□
Cams			
Double locking cam			□
4-way cam			□
Cogwheel cam			□
Pinion cam			□
Cam special setting			□
Cam with 8 possible positions			
Cam, spring-loaded			

■ = standard □ = optional

livius® SL reversible key system

Service cylinder



livius®



5191
Half cylinder

Functions/Coupling

Standard function



Emergency function, on one side

Emergency function, on both sides

Freewheel function, forced uncoupling

Emergency key function

Hierarchy function

Finish

Brass, nickel-plated



Matt brass



Burnished brass



Chrome-nickel steel

Thumbturn in matching colour

Features

SL system



Abrasion-resistant plugs

Dust cap

Protection against seawater

Copy protection, spline shaft

Drilling/picking protection

Anti-drill plate



Drilling protection



Drilling/picking protection



Type

Order lengths BL, mm

31

Outside with dummy plug

Inside with dummy plug

Fastening thread

Earthing screw

Lock indicator

Thumbturn in different shape

Cams

Double locking cam

4-way cam

Cogwheel cam

Pinion cam

Cam special setting

Cam with 8 possible positions



Cam, spring-loaded

■ = standard □ = optional

helius® reversible key system



helius®



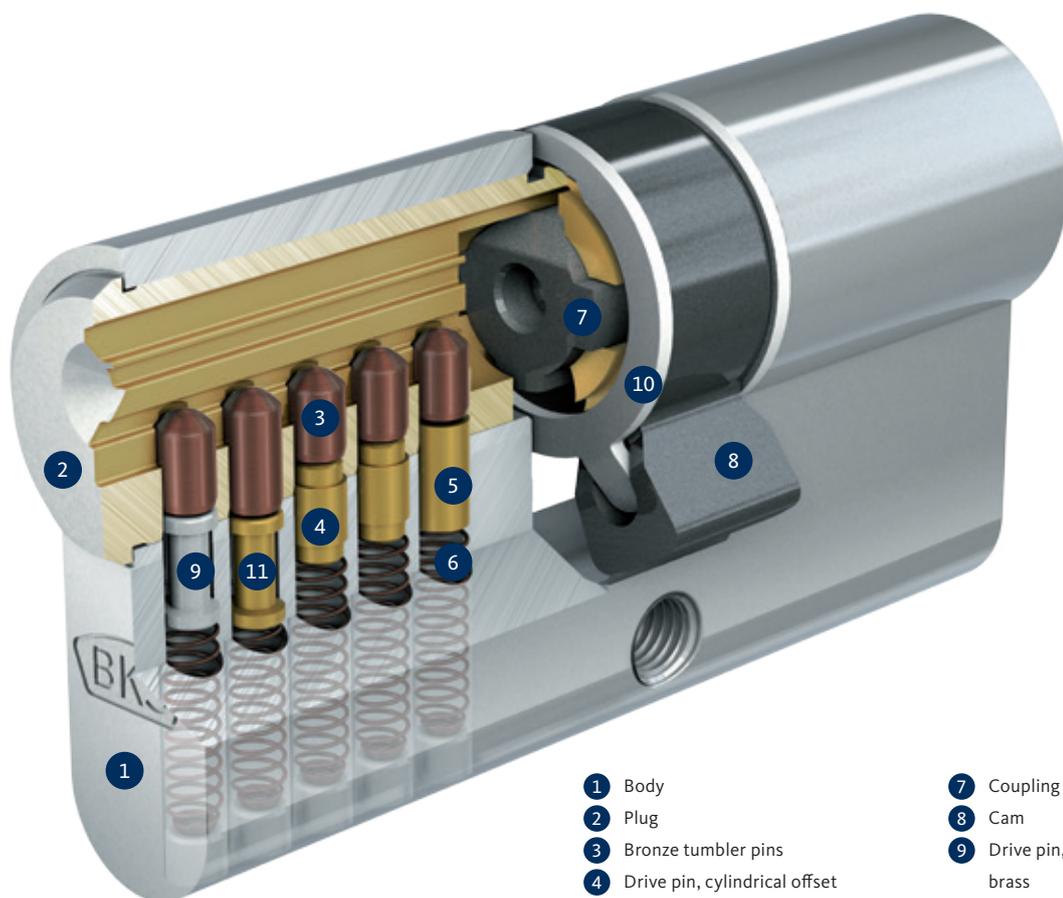
The helius® brand is a small but perfectly designed locking system that is ideal for private houses and homes. Easy operation due to tried-and-tested reversible key technology and protection against bumping as standard both make it a secure and cost-efficient solution for the home.

The smart locking system

The helius reversible key system offers high-quality reversible key technology for master key systems in the private sector and registered key bittings with security card. The system has five pin tumblers per side and can be optionally equipped with an emergency function on one or both sides. The reversible key with wavy cutouts offers reliable key duplication protection.

Highlights

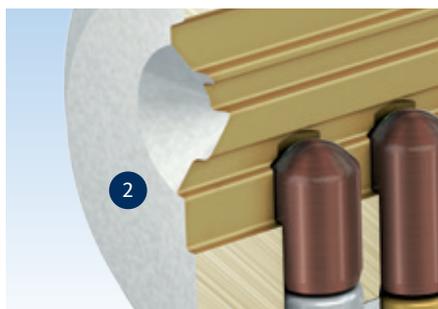
- More convenience, even with tall or heavy doors: the generous grip area of helius means straightforward opening and closing via the cylinder
- Striking design: the yellow ball is a sign of BKS quality and accentuates the symmetry of the reversible key
- Great in operation: the extended key shank makes the helius well suited for security fittings with a cylinder cover
- Simple operation: the symmetrical design and the familiar upright key position ensure an intuitive operation



- ① Body
- ② Plug
- ③ Bronze tumbler pins
- ④ Drive pin, cylindrical offset
- ⑤ Drive pin, cylindrical
- ⑥ Drive springs
- ⑦ Coupling
- ⑧ Cam
- ⑨ Drive pin, mushroom cam, brass
- ⑩ Retaining rings
- ⑪ Drive pin, mushroom cam, hardened steel

Cylinder construction

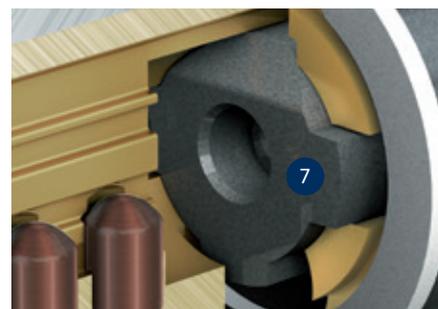
helius locking cylinders are based on the tried-and-tested single-row pin arrangement and are easy to handle thanks to the reversible key mechanism. Equipped with an emergency function, it is possible to lock the cylinders even when a key is inside.



Easy operation: plug with reversible key profile and key channel for better insertion.



Protection against manipulation: special drive pin shapes prevent manipulation with picking tools.



Special functions: different shapes of coupling enable important features, such as the emergency function.

helius® product range



helius®



Double cylinder

Available as standard cylinder or with emergency function.



Half cylinder

Can be used universally in many additional locking devices.



Padlock

Also available with extra-thin or high shackles.



Cylinder cam lock

Suitable for various letter boxes with different locking levers.



Knob cylinder

The cylinder thumbturn can be selected, exchanged and replaced.



Key with SE transponder

Function and design combine to form a universal access medium.

One key for all eventualities

helius is the right system for anyone who wants to equip their flat with keyed-alike locking or their privately owned home with a convenient, mechanical master key system.

Additional locks – for letter boxes and gates

The compact range of helius locking cylinders comprises a cylinder cam lock and a padlock as well as profile cylinders. Perfect for use in privately owned homes.

Expansion through electronics – SE double knob cylinder

helius keys can be combined with the SE transponder clip. As a result, electronic SE double knob cylinders are an important addition to helius with registered key bittings with security cards and master key systems.



Features and benefits of the helius reversible key system

Ideal for master key systems in the private sector and registered key bittings with security cards.



Standard equipment

- Bumping protection standard
- All cylinders with anti-drill plate
- 5-pin profile cylinder with reversible key mechanism
- Patent-protected keys
- Cylinder body: nickel-plated brass
- Key made from high-quality nickel silver with yellow glass ball as distinguishing feature
- Faceplate screw: M5 x 80 mm, nickel-plated steel
- Key combinable with SE transponder
- Longer key shank

Extra equipment

- Emergency function (GF)
- Faceplate screw with Security Torx

Technical data	
Order length (BL)	27, 31, 40...ascending in 5 mm steps up to BL 95 mm
Key bitting	standard key bitting, registered key bitting, master key system*
Cam	standard
Emergency function	optional, on both sides from BL 31/31, on one side from BL 27/31
* Central cylinder systems and MK systems	

helius® reversible key system

Profile cylinder

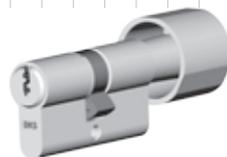


helius®



	4200 Double cylinder	4202 Double cylinder, emergency function on one side	4212 Double cylinder, emergency function on both sides
Functions/Coupling			
Standard function	■		
Emergency function, on one side		■	
Emergency function, on both sides			■
Freewheel function, forced uncoupling			
Emergency key function			
Hierarchy function			
Finish			
Brass, nickel-plated	■	■	■
Matt brass			
Burnished brass			
Chrome-nickel steel			
Thumbturn in matching colour			
Features			
SL system			
Abrasion-resistant plugs			
Dust cap			
Protection against seawater			
Key duplication protection			
Drilling/picking protection			
Anti-drill plate	■	■	■
Drilling protection			
Drilling/picking protection			
Type			
Order lengths BL, mm	27/27, 27/31, 27/35, 31/31	27/31, 27/35	31/31
Outside with dummy plug			
Inside with dummy plug			
Fastening thread			
Earthing screw			
Lock indicator			
Thumbturn in different shape			
Cams			
Double locking cam			
4-way cam			
Cogwheel cam			
Pinion cam			
Cam special setting			
Cam with 8 possible positions			
Cam, spring-loaded			

■ = standard □ = optional



helius®

	4206 Double cylinder with thumbturn	4201 Half cylinder
Functions/Coupling		
Standard function		■
Emergency function, on one side	■	
Emergency function, on both sides		
Freewheel function, forced uncoupling		
Emergency key function		
Hierarchy function		
Finish		
Brass, nickel-plated	■	■
Matt brass		
Burnished brass		
Chrome-nickel steel		
Thumbturn in matching colour	■	
Features		
SL system		
Abrasion-resistant plugs		
Dust cap		
Protection against seawater		
Key duplication protection		
Drilling/picking protection		
Anti-drill plate	■	■
Drilling protection		
Drilling/picking protection		
Type		
Order lengths BL, mm	27/27, 27/31, 31/31	27, 31
Outside with dummy plug		
Inside with dummy plug		
Fastening thread		
Earthing screw		
Lock indicator		
Thumbturn in different shape		
Cams		
Double locking cam		
4-way cam		
Cogwheel cam		
Pinion cam		
Cam special setting		
Cam with 8 possible positions		■
Cam, spring-loaded		

■ = standard □ = optional

helius® reversible key system

Cylinder cam lock, padlock



helius®

	4266 Cylinder cam lock Ø 32	4228 Padlock
Locking function		
Key rotation	90°	
Locking lever rotation	90°	
Rotation without stop		
Withdrawal of key in locked position only	■	
Withdrawal of key in locked/open position		■
With feed function		
Finish		
Brass, nickel-plated	■	
Matt brass		■
Burnished brass		
Features		
SL system		
Abrasion-resistant plugs		
Dust cap		
Protection against seawater		■
Key duplication protection		
With anti-twist safeguard		
Without integral restraint		■
With integral restraint		
Drilling/picking protection		
Anti-drill plate	■	
Drilling protection		
Drilling/picking protection		
Type		
Order lengths BL, mm		
Functional length, mm	29	
Height of shackle 35 mm		■
Height of shackle 50 mm or 125 mm		
Body flattened at top		
Body flattened at the side	■	
Thread	M28	
With microswitch		
Application		
Door thickness, mm		
For deadbolt lock 4929		
For espagnolette/deadbolt lock 4919/4920		
For rim lock 4445		
For rim lock 4460, 4470		

■ = standard □ = optional

detect3[®] conventional locking system



detect3[®]



The detect3[®] locking system relies on the tried-and-tested, conventional locking technology. The protected profile series ensures a high duplication security for cylinders in master key systems. Keys and cylinders with additional mechanical copy-protection feature (spline shaft) are optionally available. With a patent term lasting until 2025, the cylinders provide long-term security.

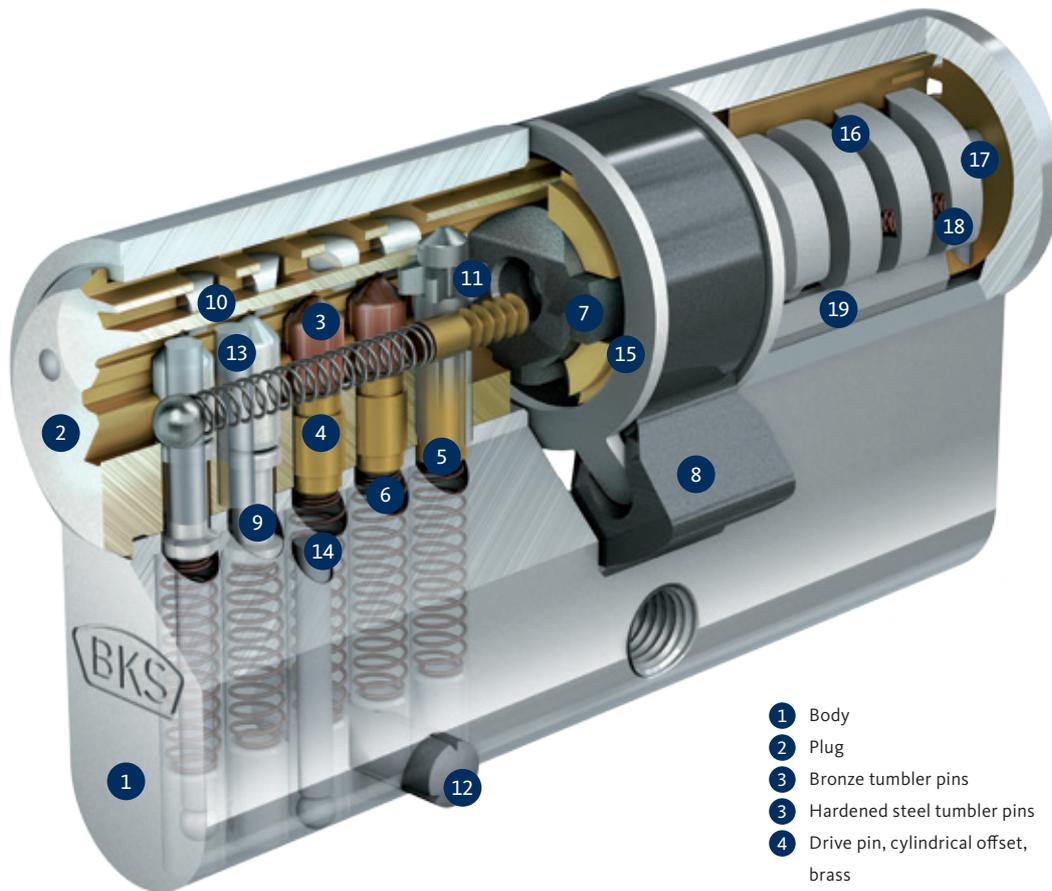
The classic locking system

In both the private and industrial sector, with the detect 3 conventional locking system, you are always on the safe side. Its reliable and versatile locking cylinders cover the entire range of applications. All cylinders are protected against bumping as standard and can be fitted with certified drilling/picking protection elements if required.

The optional version of the locking cylinder in the detect3 SL system offers the highest level of security against unauthorised unlocking. This is ensured through additional lateral locking elements in the cylinder. At the same time, the query mechanism offers high mechanical key duplication protection for the corresponding keys.

Highlights

- Highly flexible: cylinders with and without a locking bar can be combined so that different security levels can be established within one master key system
- Great operation: the extended key shank makes detect3 well suited for security hardware with cylinder cover
- Simple operation: the familiar upright key position ensures an intuitive operation



- | | |
|---|--------------------------------|
| 1 Body | 10 Scanning locks |
| 2 Plug | 11 Spline shaft |
| 3 Bronze tumbler pins | 12 Body security pin |
| 3 Hardened steel tumbler pins | 13 Drill protection pins, body |
| 4 Drive pin, cylindrical offset, brass | 14 Drill protection pins, plug |
| 5 Drive pin, cylindrical offset, brass | 15 Retaining rings |
| 6 Drive springs | 16 Variation and counter locks |
| 7 Coupling | 17 Axle |
| 8 Cam | 18 Springs |
| 9 Drive pin, mushroom cam, hardened steel | 19 Locking bar |

Cylinder construction

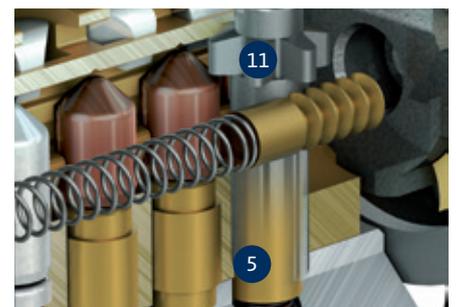
detect3 locking cylinders are based on the tried-and-tested single row pin arrangement and rely on conventional key insertion. Depending on requirements, 5- or 6-pin versions are available.



SL system: additional lateral locking elements and detection mechanisms offer the highest level of security against unauthorised unlocking.



Security package: picking and drill protection pins together with lateral scanning locks form an effective security package.



Key duplication protection: the spline shaft together with its detection mechanism ensures a high level of mechanical key duplication protection.



Double cylinder
Available as standard cylinder with special cams or with additional features.



Half cylinder
Can be used universally in many additional locking devices.



Padlock
Also available with extra-thin or high shackles.



Cylinder cam lock
Suitable for various letter boxes with different locking levers.



Switching cylinder
With microswitches for controlling external electronic control devices.



Rim cylinder
Locks or unlocks rim locks from the outside of the door.



Knob cylinder
The cylinder thumbturn can be selected, exchanged and replaced.



Key with SE transponder
Function and design combine to form a universal access medium.

One key for all eventualities

The detect3 conventional locking system is the flexible solution when implementing master key systems with high security requirements.

Additional locks – everything included in one solution

Besides double cylinders and half cylinders, the comprehensive cylinder range comprises many additional cylinder types for use in master key systems.

Expansion through electronics – SE double knob cylinder

detect3 keys can be combined with the SE transponder clip. Therefore, electronic SE double knob cylinders are a worthwhile addition to all existing detect3 master key systems.



Features and benefits of the detect3 conventional locking system

The detect3 locking system is optimally suited for master key systems with combined authorisation levels and has numerous useful features and special designs.



Standard equipment

- Tested in accordance with EN 1303 and DIN 18252
- Bumping protection standard
- 5-pin profile cylinder
- Cylinder body: nickel-plated brass, matt, polished or bronzed
- Keys: high-quality nickel silver
- Faceplate screw: M5 x 80 mm, nickel-plated steel
- Longer key shank

Extra equipment

- Additional locking bar and four spring-loaded locking elements in the cylinder plug (system SL)
- Cylinders with and without locking bar (system SL) can be combined in master key systems
- Spline shaft in the cylinder for high key duplication protection
- Lateral indentation on the key for high copy protection
- 6-pin profile cylinder
- Cylinders with protection against seawater
- Faceplate screw with Security Torx

Technical data	
Order length (BL)/5 pins	27, 31, 35 ... ascending in 5 mm steps up to 95 mm
Order length (BL)/6 pins	31, 35, 40 ... ascending in 5 mm steps up to 95 mm
Special length	max. 250 mm
Key bitting	registered key bitting, master key system
Cam	standard, special versions
Emergency function	optional, on both sides from BL 31/31, on one side from BL 27/31
Freewheel function (FZG)	optional, from BL 31/31
Drilling protection	optional, BSKA, BSKB
Drilling/picking protection	optional, BZKB
DIN 18252/5 pins	grade 70, optionally grade 71-B (with BSKA), grade 71-BZ (with BZKB)
DIN 18252/6 pins	grade 80, optionally grade 82 (with BZKB)
Key related security according to EN 1303/5 pins	grade 4
Key related security according to EN 1303/6 pins	grade 6
Resistance to attack according to EN 1303	grade 0, optionally grade 2 (with BZKB)
VdS variant	optional
SKG** and SKG*** variant	optional
A2P*	optional

detect³® locking system

Profile cylinder



detect³®



	3100 Double cylinder	3102 Double cylinder with emergency function on one side	3112 Double cylinder with emergency function on both sides
Functions/Coupling			
Standard function	■		
Emergency function, on one side		■	
Emergency function, on both sides			■
Freewheel function, forced uncoupling			
Emergency key function	□		
Hierarchy function			
Finish			
Brass, nickel-plated	■	■	■
Matt brass	□	□	□
Burnished brass	□	□	□
Chrome-nickel steel			
Thumbturn in matching colour			
Features			
SL system			
Abrasion-resistant plugs	□	□	□
Dust cap	□	□	□
Protection against seawater	□	□	□
Key duplication protection	□	□	□
Drilling/picking protection			
Anti-drill plate	■	■	■
Drilling protection	□	□	□
Drilling/picking protection	□	□	□
Type			
Order lengths BL, mm	27/27, 27/31, 27/35, 31/31	27/31, 27/35	31/31
Outside with dummy plug			
Inside with dummy plug			
Fastening thread			
Earthing screw			
Lock indicator			
Thumbturn in different shape			
Cams			
Double locking cam	□	□	□
4-way cam	□	□	□
Cogwheel cam	□	□	□
Pinion cam	□	□	□
Cam special setting	□		□
Cam with 8 possible positions			
Cam, spring-loaded			

■ = standard □ = optional



detect3®			
	3124 Double cylinder with freewheel function one side dummy	3127 Double cylinder with freewheel function	3133 Double cylinder with emergency key function and lock indicator
Functions/Coupling			
Standard function			
Emergency function, on one side			
Emergency function, on both sides			
Freewheel function, forced uncoupling	■	■	
Emergency key function			■
Hierarchy function			
Finish			
Brass, nickel-plated	■	■	■
Matt brass	□	□	□
Burnished brass	□	□	□
Chrome-nickel steel			
Thumbturn in matching colour			
Features			
SL system			
Abrasion-resistant plugs		□	
Dust cap		□	
Protection against seawater	□	□	
Key duplication protection	□	□	
Drilling/picking protection			
Anti-drill plate	■	■	■
Drilling protection		□	□
Drilling/picking protection		□	□
Type			
Order lengths BL, mm	31/31	31/31	27/27, 27/31, 27/35, 31/31
Outside with dummy plug	■		
Inside with dummy plug			
Fastening thread			
Earthing screw			
Lock indicator			■
Thumbturn in different shape			
Cams			
Double locking cam			
4-way cam			
Cogwheel cam			
Pinion cam			
Cam special setting			
Cam with 8 possible positions			
Cam, spring-loaded			

■ = standard □ = optional

detect³® locking system

Profile cylinder



detect³®



	3136 Double cylinder one side dummy	3290 Double cylinder with hierarchy function	3291 Double cylinder with hierarchy function, one side dummy
Functions/Coupling			
Standard function	■		
Emergency function, on one side			
Emergency function, on both sides			
Freewheel function, forced uncoupling			
Emergency key function			
Hierarchy function		■	■
Finish			
Brass, nickel-plated	■	■	■
Matt brass	□	□	□
Burnished brass	□	□	□
Chrome-nickel steel			
Thumbturn in matching colour			
Features			
SL system			
Abrasion-resistant plugs			□
Dust cap	□	□	□
Protection against seawater	□	□	□
Key duplication protection			
Drilling/picking protection			
Anti-drill plate	■	■	■
Drilling protection		□	□
Drilling/picking protection		□	□
Type			
Order lengths BL, mm	27/27, 27/31, 27/35, 31/31	27/27, 27/31, 27/35, 31/31	27/27, 27/31, 27/35, 31/31
Outside with dummy plug	■		
Inside with dummy plug			■
Fastening thread			
Earthing screw			
Lock indicator			
Thumbturn in different shape			
Cams			
Double locking cam			
4-way cam			
Cogwheel cam			
Pinion cam			
Cam special setting			
Cam with 8 possible positions			
Cam, spring-loaded			

■ = standard □ = optional



detect3®	 3101 Half cylinder	 3123 Half cylinder with freewheel function	 3171 Half cylinder with fastening threads
Functions/Coupling			
Standard function	■		■
Emergency function, on one side			
Emergency function, on both sides			
Freewheel function, forced uncoupling		■	
Emergency key function			
Hierarchy function			
Finish			
Brass, nickel-plated	■	■	■
Matt brass	□	□	□
Burnished brass	□	□	□
Chrome-nickel steel			
Thumbturn in matching colour			
Features			
SL system			
Abrasion-resistant plugs	□	□	□
Dust cap	□	□	□
Protection against seawater	□	□	□
Key duplication protection	□	□	
Drilling/picking protection			
Anti-drill plate	■	■	■
Drilling protection	□	□	□
Drilling/picking protection	□	□	
Type			
Order lengths BL, mm	27, 31	31	27, 31
Outside with dummy plug			
Inside with dummy plug			
Fastening thread			■
Earthing screw			
Lock indicator			
Thumbturn in different shape			
Cams			
Double locking cam	□		
4-way cam	□		
Cogwheel cam	□		
Pinion cam	□		
Cam special setting			
Cam with 8 possible positions	■		■
Cam, spring-loaded			

■ = standard □ = optional

detect3[®] locking system

Profile cylinder



detect3[®]



3195
Half cylinder
with spring-loaded locking
cam

3196
Half cylinder
with limited rotation

3199
Half cylinder
with fastening threads and
earthing screw

Functions/Coupling

Standard function



Emergency function, on one side

Emergency function, on both sides

Freewheel function, forced uncoupling

Emergency key function

Hierarchy function

Finish

Brass, nickel-plated



Matt brass



Burnished brass



Chrome-nickel steel

Thumbturn in matching colour

Features

SL system

Abrasion-resistant plugs



Dust cap



Protection against seawater



Key duplication protection

Drilling/picking protection

Anti-drill plate



Drilling protection



Drilling/picking protection

Type

Order lengths BL, mm

27, 31

31

35

Outside with dummy plug

Inside with dummy plug

Fastening thread



Earthing screw



Lock indicator

Thumbturn in different shape

Cams

Double locking cam

4-way cam

Cogwheel cam

Pinion cam

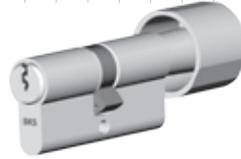
Cam special setting

Cam with 8 possible positions

Cam, spring-loaded



■ = standard □ = optional



detect3®	
3106 Double cylinder with thumbturn	
Functions/Coupling	
Standard function	<input checked="" type="checkbox"/>
Emergency function, on one side	<input checked="" type="checkbox"/>
Emergency function, on both sides	
Freewheel function, forced uncoupling	
Emergency key function	
Hierarchy function	
Finish	
Brass, nickel-plated	<input checked="" type="checkbox"/>
Matt brass	<input type="checkbox"/>
Burnished brass	<input type="checkbox"/>
Chrome-nickel steel	
Thumbturn in matching colour	<input checked="" type="checkbox"/>
Features	
SL system	
Abrasion-resistant plugs	<input type="checkbox"/>
Dust cap	<input type="checkbox"/>
Protection against seawater	<input type="checkbox"/>
Key duplication protection	<input type="checkbox"/>
Drilling/picking protection	
Anti-drill plate	<input checked="" type="checkbox"/>
Drilling protection	<input type="checkbox"/>
Drilling/picking protection	<input type="checkbox"/>
Type	
Order lengths BL, mm	27/27, 27/31, 31/31
Outside with dummy plug	
Inside with dummy plug	
Fastening thread	
Earthing screw	
Lock indicator	
Thumbturn in different shape	<input type="checkbox"/>
Cams	
Double locking cam	<input type="checkbox"/>
4-way cam	<input type="checkbox"/>
Cogwheel cam	<input type="checkbox"/>
Pinion cam	<input type="checkbox"/>
Cam special setting	<input type="checkbox"/>
Cam with 8 possible positions	
Cam, spring-loaded	

= standard = optional

detect3® locking system

Furniture lock cylinder



detect3®

5114
Furniture lock cylinder Ø 28

5117
Furniture lock cylinder Ø 28

Locking function		
Key rotation		
Locking lever rotation		
Rotation without stop	■	■
Withdrawal of key in locked position only		
Withdrawal of key in locked/open position		
With feed function		
Finish		
Brass, nickel-plated	■	■
Matt brass	□	□
Burnished brass	□	□
Features		
SL system		
Abrasion-resistant plugs		
Dust cap		
Protection against seawater		
Key duplication protection		
With anti-twist safeguard		
Without integral restraint		
With integral restraint		
Drilling/picking protection		
Anti-drill plate	■	■
Drilling protection		
Drilling/picking protection		
Type		
Order lengths BL, mm		
Functional length, mm	26, 30	24, 28
Height of shackle 35 mm		
Height of shackle 50 mm or 125 mm		
Body flattened at top		
Body flattened at the side		
Thread		
With microswitch		
Application		
Door thickness, mm		
For deadbolt lock 4929	■	
For espagnolette/deadbolt lock 4919/4920		■
For rim lock 4445		
For rim lock 4460, 4470		

■ = standard □ = optional



detect3®			
	0778 Padlock	2266 Cylinder cam lock Ø 32	2276 Cylinder cam lock Ø 32 with limited rotation
Locking function			
Key rotation		90°	360°
Locking lever rotation		90°	90°, 180°
Rotation without stop			
Withdrawal of key in locked position only		■	
Withdrawal of key in locked/open position	■		■
With feed function			
Finish			
Brass, nickel-plated		■	■
Matt brass	■	□	□
Burnished brass		□	□
Features			
SL system			
Abrasion-resistant plugs			
Dust cap	□	□	□
Protection against seawater	■		
Key duplication protection			
With anti-twist safeguard			
Without integral restraint	■		
With integral restraint	□		
Drilling/picking protection			
Anti-drill plate		■	■
Drilling protection		□	□
Drilling/picking protection			
Type			
Order lengths BL, mm			
Functional length, mm		29	29
Height of shackle 35 mm	■		
Height of shackle 50 mm or 125 mm	□		
Body flattened at top			
Body flattened at the side		■	■
Thread		M28	M28
With microswitch			
Application			
Door thickness, mm			
For deadbolt lock 4929			
For espagnolette/deadbolt lock 4919/4920			
For rim lock 4445			
For rim lock 4460, 4470			

■ = standard □ = optional

detect3® locking system

Cylinder cam lock, switching cylinder



detect3®



	2285 Cylinder cam lock Ø 32	2485 Cylinder cam lock Ø 32 with limited rotation	3187 Switching cylinder Ø 32
Locking function			
Key rotation	90°	360°	90°
Locking lever rotation	90°	90°	
Rotation without stop	<input type="checkbox"/>		
Withdrawal of key in locked position only	<input checked="" type="checkbox"/>		
Withdrawal of key in locked/open position		<input checked="" type="checkbox"/>	
With feed function			
Finish			
Brass, nickel-plated	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Matt brass	<input type="checkbox"/>	<input type="checkbox"/>	
Burnished brass	<input type="checkbox"/>	<input type="checkbox"/>	
Features			
SL system			
Abrasion-resistant plugs			
Dust cap			
Protection against seawater			
Key duplication protection			
With anti-twist safeguard	<input type="checkbox"/>	<input type="checkbox"/>	
Without integral restraint			
With integral restraint			
Drilling/picking protection			
Anti-drill plate	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Drilling protection	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Drilling/picking protection			
Type			
Order lengths BL, mm			
Functional length, mm	29 (34, 40, 45, 50, 55)	29 (34, 40, 45, 50, 55)	64
Height of shackle 35 mm			
Height of shackle 50 mm or 125 mm			
Body flattened at top	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Body flattened at the side		<input type="checkbox"/>	<input checked="" type="checkbox"/>
Thread	M30	M30	M28
With microswitch			<input checked="" type="checkbox"/>
Application			
Door thickness, mm			
For deadbolt lock 4929			
For espagnolette/deadbolt lock 4919/4920			
For rim lock 4445			
For rim lock 4460, 4470			

■ = standard □ = optional



detect ³ ®			
	1309 Rim cylinder Ø 32 for rim lock	1310 Rim cylinder Ø 32 for rim lock	1324 Inside cylinder Ø 32 for rim lock
Locking function			
Key rotation			
Locking lever rotation			
Rotation without stop	■	■	■
Withdrawal of key in locked position only			
Withdrawal of key in locked/open position			
With feed function			
Finish			
Brass, nickel-plated	■	■	■
Matt brass	□		□
Burnished brass	□		□
Features			
SL system			
Abrasion-resistant plugs			
Dust cap	□	□	
Protection against seawater			
Key duplication protection			
With anti-twist safeguard			
Without integral restraint			
With integral restraint			
Drilling/picking protection			
Anti-drill plate	■	■	■
Drilling protection	□	□	□
Drilling/picking protection			
Type			
Order lengths BL, mm			
Functional length, mm	25	depending on tube length	25
Height of shackle 35 mm			
Height of shackle 50 mm or 125 mm			
Body flattened at top			
Body flattened at the side			
Thread			
With microswitch			
Application			
Door thickness, mm	from 28	<28	not specified
For deadbolt lock 4929			
For espagnolette/deadbolt lock 4919/4920			
For rim lock 4445			■
For rim lock 4460, 4470			

■ = standard □ = optional

detect³® locking system

Rim cylinder



detect³®



	1344 Rim cylinder Ø 32 for rim lock	1360 Rim cylinder Ø 32 for rim lock	1409 Rim cylinder Ø 32 for rim lock
Locking function			
Key rotation			
Locking lever rotation			
Rotation without stop	■	■	■
Withdrawal of key in locked position only			
Withdrawal of key in locked/open position			
With feed function			
Finish			
Brass, nickel-plated	■	■	■
Matt brass	□	□	□
Burnished brass	□	□	□
Features			
SL system			
Abrasion-resistant plugs			
Dust cap	□	□	□
Protection against seawater			
Key duplication protection			
With anti-twist safeguard			
Without integral restraint			
With integral restraint			
Drilling/picking protection			
Anti-drill plate	■	■	■
Drilling protection	□	□	□
Drilling/picking protection			
Type			
Order lengths BL, mm			
Functional length, mm	30	30	30
Height of shackle 35 mm			
Height of shackle 50 mm or 125 mm			
Body flattened at top			
Body flattened at the side	■		
Thread			
With microswitch			
Application			
Door thickness, mm	from 32	from 32	from 28
For deadbolt lock 4929			
For espagnolette/deadbolt lock 4919/4920			
For rim lock 4445	■		
For rim lock 4460, 4470		■	

■ = standard □ = optional



detect ³ ®			
	3107 Double cylinder Ø 32	3108 Half cylinder Ø 32	3118 Double cylinder with twist knob Ø 32
Locking function			
Key rotation			
Locking lever rotation			
Rotation without stop	■	■	■
Withdrawal of key in locked position only			
Withdrawal of key in locked/open position			
With feed function			
Finish			
Brass, nickel-plated	■	■	■
Matt brass	□	□	□
Burnished brass	□	□	□
Features			
SL system			
Abrasion-resistant plugs			
Dust cap			
Protection against seawater			
Key duplication protection			
With anti-twist safeguard			
Without integral restraint			
With integral restraint			
Drilling/picking protection			
Anti-drill plate	■	■	■
Drilling protection	□	□	□
Drilling/picking protection			
Type			
Order lengths BL, mm	29/29, 33/33	29, 33	29/29, 33/29
Functional length, mm			
Height of shackle 35 mm			
Height of shackle 50 mm or 125 mm			
Body flattened at top			
Body flattened at the side			
Thread			
With microswitch			
Application			
Door thickness, mm			
For deadbolt lock 4929			
For espagnolette/deadbolt lock 4919/4920			
For rim lock 4445			
For rim lock 4460, 4470			

■ = standard □ = optional

detect3[®] locking system

Round cylinder



detect3[®]



	3177 Double cylinder Ø 32	3179 Double cylinder with twist knob Ø 32	3178 Half cylinder Ø 32
Locking function			
Key rotation			
Locking lever rotation			
Rotation without stop	■	■	■
Withdrawal of key in locked position only			
Withdrawal of key in locked/open position			
With feed function			
Finish			
Brass, nickel-plated	■	■	■
Matt brass	□	□	□
Burnished brass	□	□	□
Features			
SL system			
Abrasion-resistant plugs			
Dust cap			
Protection against seawater			
Key duplication protection			
With anti-twist safeguard			
Without integral restraint			
With integral restraint			
Drilling/picking protection			
Anti-drill plate	■	■	■
Drilling protection	□	□	□
Drilling/picking protection			
Type			
Order lengths BL, mm	21/21, 21/25, 25/25	21/21, 21/25, 25/25	21, 25
Functional length, mm			
Height of shackle 35 mm			
Height of shackle 50 mm or 125 mm			
Body flattened at top			
Body flattened at the side			
Thread			
With microswitch			
Application			
Door thickness, mm			
For deadbolt lock 4929			
For espagnolette/deadbolt lock 4919/4920			
For rim lock 4445			
For rim lock 4460, 4470			

■ = standard □ = optional



detect3®		
		
	7701 Lockable turn handle for furniture locks	2962 Cylinder lock Ø 30
Locking function		
Key rotation	360°	360°
Locking lever rotation		
Rotation without stop		
Withdrawal of key in locked position only		
Withdrawal of key in locked/open position	■	■
With feed function		
Finish		
Brass, nickel-plated	■	■
Matt brass		
Burnished brass		
Features		
SL system		
Abrasion-resistant plugs		
Dust cap		□
Protection against seawater		
Key duplication protection	□	
With anti-twist safeguard		
Without integral restraint	■	■
With integral restraint		
Drilling/picking protection		
Anti-drill plate	■	■
Drilling protection	□	□
Drilling/picking protection		
Type		
Order lengths BL, mm		
Functional length, mm		29
Height of shackle 35 mm		
Height of shackle 50 mm or 125 mm		
Body flattened at top		
Body flattened at the side		
Thread		
With microswitch		
Application		
Door thickness, mm		
For deadbolt lock 4929		
For espagnolette/deadbolt lock 4919/4920		
For rim lock 4445		
For rim lock 4460, 4470		

■ = standard □ = optional

detect³® SL locking system

Profile cylinder



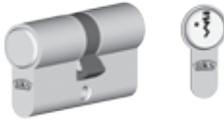
detect³®



	3300 Double cylinder	3302 Double cylinder with emergency function on one side	3312 Double cylinder with emergency function on both sides
Functions/Coupling			
Standard function	■		
Emergency function, on one side		■	
Emergency function, on both sides			■
Freewheel function, forced uncoupling			
Emergency key function			
Hierarchy function			
Finish			
Brass, nickel-plated	■	■	■
Matt brass	□	□	□
Burnished brass	□	□	□
Chrome-nickel steel			
Thumbturn in matching colour			
Features			
SL system	■	■	■
Abrasion-resistant plugs			
Dust cap			
Protection against seawater	□	□	□
Key duplication protection	□	□	□
Drilling/picking protection			
Anti-drill plate	■	■	■
Drilling protection	□	□	□
Drilling/picking protection	□	□	□
Type			
Order lengths BL, mm	27/27, 27/31, 27/35, 31/31	27/31, 27/35	31/31
Outside with dummy plug			
Inside with dummy plug			
Fastening thread			
Earthing screw			
Lock indicator			
Thumbturn in different shape			
Cams			
Double locking cam	□	□	□
4-way cam	□	□	□
Cogwheel cam	□	□	□
Pinion cam	□	□	□
Cam special setting	□		□
Cam with 8 possible positions			
Cam, spring-loaded			

■ = standard □ = optional



detect3 [®]			
	3327 Double cylinder with freewheel function	3336 Double cylinder one side dummy	3301 Half cylinder
Functions/Coupling			
Standard function		■	■
Emergency function, on one side			
Emergency function, on both sides			
Freewheel function, forced uncoupling	■		
Emergency key function			
Hierarchy function			
Finish			
Brass, nickel-plated	■	■	■
Matt brass	□	□	□
Burnished brass	□	□	□
Chrome-nickel steel			
Thumbturn in matching colour			
Features			
SL system	■	■	■
Abrasion-resistant plugs			
Dust cap			
Protection against seawater	□	□	□
Key duplication protection	□	□	□
Drilling/picking protection			
Anti-drill plate	■	■	■
Drilling protection	□	□	□
Drilling/picking protection	□	□	□
Type			
Order lengths BL, mm	31/31	27/27, 27/31, 27/35, 31/31	27, 31
Outside with dummy plug		■	
Inside with dummy plug			
Fastening thread			
Earthing screw			
Lock indicator			
Thumbturn in different shape			
Cams			
Double locking cam			□
4-way cam			□
Cogwheel cam			□
Pinion cam			□
Cam special setting			
Cam with 8 possible positions			■
Cam, spring-loaded			

■ = standard □ = optional

detect³® SL locking system

Profile cylinder



detect³®



3323
Half cylinder
with freewheel function

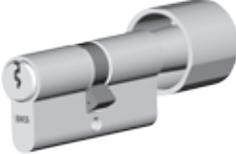
3371
Half cylinder
with fastening threads

3396
Half cylinder
with limited rotation

detect ³ ®	3323 Half cylinder with freewheel function	3371 Half cylinder with fastening threads	3396 Half cylinder with limited rotation
Functions/Coupling			
Standard function		■	■
Emergency function, on one side			
Emergency function, on both sides			
Freewheel function, forced uncoupling	■		
Emergency key function			
Hierarchy function			
Finish			
Brass, nickel-plated	■	■	■
Matt brass	□	□	□
Burnished brass	□	□	□
Chrome-nickel steel			
Thumbturn in matching colour			
Features			
SL system	■	■	■
Abrasion-resistant plugs			
Dust cap			
Protection against seawater	□	□	□
Key duplication protection	□	□	□
Drilling/picking protection			
Anti-drill plate	■	■	■
Drilling protection	□	□	□
Drilling/picking protection	□	□	□
Type			
Order lengths BL, mm	31	27, 31	31
Outside with dummy plug			
Inside with dummy plug			
Fastening thread			
Earthing screw			
Lock indicator			
Thumbturn in different shape			
Cams			
Double locking cam			
4-way cam			
Cogwheel cam			
Pinion cam			
Cam special setting			
Cam with 8 possible positions		■	
Cam, spring-loaded			

■ = standard □ = optional



detect3 [®]			
	3399 Half cylinder with fastening threads and earthing screw	3306 Double cylinder with thumbturn	3313 Double cylinder from one side with socket wrench
Functions/Coupling			
Standard function	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>
Emergency function, on one side		<input checked="" type="checkbox"/>	
Emergency function, on both sides			
Freewheel function, forced uncoupling			
Emergency key function			
Hierarchy function			
Finish			
Brass, nickel-plated	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Matt brass	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Burnished brass	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Chrome-nickel steel			
Thumbturn in matching colour		<input checked="" type="checkbox"/>	
Features			
SL system	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Abrasion-resistant plugs			
Dust cap			
Protection against seawater	<input type="checkbox"/>	<input type="checkbox"/>	
Key duplication protection	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Drilling/picking protection			
Anti-drill plate	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Drilling protection	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Drilling/picking protection		<input type="checkbox"/>	
Type			
Order lengths BL, mm	35	27/27, 27/31, 31/31	27/27, 27/31, 27/35, 31/31
Outside with dummy plug			
Inside with dummy plug			
Fastening thread			
Earthing screw			
Lock indicator			
Thumbturn in different shape			
Cams			
Double locking cam			
4-way cam			
Cogwheel cam			
Pinion cam			
Cam special setting			
Cam with 8 possible positions			
Cam, spring-loaded			

■ = standard □ = optional

detect³® SL locking system

Padlock, cylinder cam lock



detect³®



	3328 Padlock	3345 Cylinder cam lock Ø 32	3346 Cylinder cam lock Ø 32 with limited rotation
Locking function			
Key rotation		90°	360°
Locking lever rotation		90°	90°
Rotation without stop		<input type="checkbox"/>	
Withdrawal of key in locked position only		<input checked="" type="checkbox"/>	
Withdrawal of key in locked/open position	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>
With feed function			
Finish			
Brass, nickel-plated		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Matt brass	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Burnished brass		<input type="checkbox"/>	<input type="checkbox"/>
Features			
SL system	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Abrasion-resistant plugs			
Dust cap			
Protection against seawater	<input checked="" type="checkbox"/>		
Key duplication protection			
With anti-twist safeguard		<input type="checkbox"/>	<input type="checkbox"/>
Without integral restraint	<input checked="" type="checkbox"/>		
With integral restraint	<input type="checkbox"/>		
Drilling/picking protection			
Anti-drill plate		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Drilling protection		<input type="checkbox"/>	<input type="checkbox"/>
Drilling/picking protection			
Type			
Order lengths BL, mm			
Functional length, mm		29 (34, 40, 45, 50, 55)	29 (34, 40, 45, 50, 55)
Height of shackle 35 mm	<input checked="" type="checkbox"/>		
Height of shackle 50 mm or 125 mm	<input type="checkbox"/>		
Body flattened at top		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Body flattened at the side			<input type="checkbox"/>
Thread		M30	M30
With microswitch			
Application			
Door thickness, mm			
For deadbolt lock 4929			
For espagnolette/deadbolt lock 4919/4920			
For rim lock 4445			
For rim lock 4460, 4470			

= standard = optional



detect ³ ®			
	3366 Cylinder cam lock Ø 32	3376 Cylinder cam lock Ø 32 with limited rotation	3320 Rim cylinder Ø 32 for rim lock
Locking function			
Key rotation	90°	360°	
Locking lever rotation	90°	90° (180°)	
Rotation without stop			■
Withdrawal of key in locked position only	■		
Withdrawal of key in locked/open position		■	
With feed function			
Finish			
Brass, nickel-plated	■	■	■
Matt brass	□	□	
Burnished brass	□	□	
Features			
SL system	■	■	■
Abrasion-resistant plugs			
Dust cap			
Protection against seawater			
Key duplication protection			
With anti-twist safeguard			
Without integral restraint			
With integral restraint			
Drilling/picking protection			
Anti-drill plate	■	■	■
Drilling protection	□	□	□
Drilling/picking protection			
Type			
Order lengths BL, mm			
Functional length, mm	29	29, 34	depending on tube length
Height of shackle 35 mm			
Height of shackle 50 mm or 125 mm			
Body flattened at top			
Body flattened at the side	■	■	
Thread	M28	M28	
With microswitch			
Application			
Door thickness, mm			< 28
For deadbolt lock 4929			
For espagnolette/deadbolt lock 4919/4920			
For rim lock 4445			
For rim lock 4460, 4470			

■ = standard □ = optional

detect³® SL locking system

Rim cylinder, round cylinder



detect³®



	3344 Rim cylinder Ø 32 for rim lock	3360 Rim cylinder Ø 32 for rim lock	3377 Double cylinder Ø 32
Locking function			
Key rotation			
Locking lever rotation			
Rotation without stop	■	■	■
Withdrawal of key in locked position only			
Withdrawal of key in locked/open position			
With feed function			
Finish			
Brass, nickel-plated	■	■	■
Matt brass	□	□	□
Burnished brass	□	□	□
Features			
SL system	■	■	■
Abrasion-resistant plugs			
Dust cap			
Protection against seawater			
Key duplication protection			
With anti-twist safeguard			
Without integral restraint			
With integral restraint			
Drilling/picking protection			
Anti-drill plate	■	■	■
Drilling protection	□	□	□
Drilling/picking protection			
Type			
Order lengths BL, mm			21/21, 21/25, 25/25
Functional length, mm	30	30	
Height of shackle 35 mm			
Height of shackle 50 mm or 125 mm			
Body flattened at top			
Body flattened at the side	■		
Thread			
With microswitch			
Application			
Door thickness, mm	from 32	from 32	
For deadbolt lock 4929			
For espagnolette/deadbolt lock 4919/4920			
For rim lock 4445	■		
For rim lock 4460, 4470		■	

■ = standard □ = optional



detect3 [®]			
	3307 Double cylinder Ø 32	3314 Furniture lock cylinder Ø 28	3317 Furniture lock cylinder Ø 28
Locking function			
Key rotation			
Locking lever rotation			
Rotation without stop	■	■	■
Withdrawal of key in locked position only			
Withdrawal of key in locked/open position			
With feed function			
Finish			
Brass, nickel-plated	■	■	■
Matt brass	□	□	□
Burnished brass	□	□	□
Features			
SL system	■	■	■
Abrasion-resistant plugs			
Dust cap			
Protection against seawater			
Key duplication protection			
With anti-twist safeguard			
Without integral restraint			
With integral restraint			
Drilling/picking protection			
Anti-drill plate	■	■	■
Drilling protection	□	□	□
Drilling/picking protection			
Type			
Order lengths BL, mm	29/29, 33/33		
Functional length, mm		26, 30	24, 28
Height of shackle 35 mm			
Height of shackle 50 mm or 125 mm			
Body flattened at top			
Body flattened at the side			
Thread			
With microswitch			
Application			
Door thickness, mm			
For deadbolt lock 4929		■	
For espagnolette/deadbolt lock 4919/4920			■
For rim lock 4445			
For rim lock 4460, 4470			

■ = standard □ = optional

detect³® locking system, customer profiles

Profile cylinder



detect³®



	3700 Double cylinder	3702 Double cylinder, emergency function on one side	3712 Double cylinder, emergency function on both sides
Functions/Coupling			
Standard function	■		
Emergency function, on one side		■	
Emergency function, on both sides			■
Freewheel function, forced uncoupling			
Emergency key function			
Hierarchy function			
Finish			
Brass, nickel-plated	■	■	■
Matt brass	□	□	□
Burnished brass			
Chrome-nickel steel			
Thumbturn in matching colour			
Features			
SL system			
Abrasion-resistant plugs	□	□	□
Dust cap			
Protection against seawater			
Key duplication protection	□	□	□
Drilling/picking protection			
Anti-drill plate	■	■	■
Drilling protection	□	□	□
Drilling/picking protection	□	□	□
Type			
Order lengths BL, mm	27/27, 27/31, 27/35, 31/31	27/31, 27/35	31/31
Outside with dummy plug			
Inside with dummy plug			
Fastening thread			
Earthing screw			
Lock indicator			
Thumbturn in different shape			
Cams			
Double locking cam			
4-way cam			
Cogwheel cam			
Pinion cam			
Cam special setting			
Cam with 8 possible positions			
Cam, spring-loaded			

■ = standard □ = optional

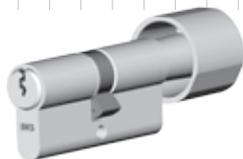


detect3®			
	3727 Double cylinder with freewheel function	3701 Half cylinder	3723 Half cylinder with freewheel function
Functions/Coupling			
Standard function		■	
Emergency function, on one side			
Emergency function, on both sides			
Freewheel function, forced uncoupling	■		■
Emergency key function			
Hierarchy function			
Finish			
Brass, nickel-plated	■	■	■
Matt brass	□	□	□
Burnished brass			
Chrome-nickel steel			
Thumbturn in matching colour			
Features			
SL system			
Abrasion-resistant plugs	□	□	□
Dust cap			
Protection against seawater			
Key duplication protection	□	□	□
Drilling/picking protection			
Anti-drill plate	■	■	■
Drilling protection	□	□	□
Drilling/picking protection	□	□	□
Type			
Order lengths BL, mm	31/31	27, 31	31
Outside with dummy plug			
Inside with dummy plug			
Fastening thread			
Earthing screw			
Lock indicator			
Thumbturn in different shape			
Cams			
Double locking cam			
4-way cam			
Cogwheel cam			
Pinion cam			
Cam special setting			
Cam with 8 possible positions		■	
Cam, spring-loaded			

■ = standard □ = optional

detect³® locking system, customer profiles

Profile cylinder



detect³®

3706
Double cylinder
with thumbturn

Functions/Coupling

Standard function	
Emergency function, on one side	■
Emergency function, on both sides	
Freewheel function, forced uncoupling	
Emergency key function	
Hierarchy function	

Finish

Brass, nickel-plated	■
Matt brass	□
Burnished brass	
Chrome-nickel steel	
Thumbturn in matching colour	■

Features

SL system	
Abrasion-resistant plugs	
Dust cap	
Protection against seawater	
Key duplication protection	□

Drilling/picking protection

Anti-drill plate	■
Drilling protection	□
Drilling/picking protection	□

Type

Order lengths BL, mm	27/27, 27/31, 31/31
Outside with dummy plug	
Inside with dummy plug	
Fastening thread	
Earthing screw	
Lock indicator	
Thumbturn in different shape	

Cams

Double locking cam	
4-way cam	
Cogwheel cam	
Pinion cam	
Cam special setting	
Cam with 8 possible positions	
Cam, spring-loaded	

■ = standard □ = optional

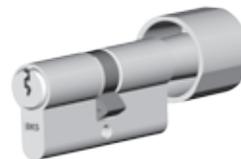


detect3®	 3780 Double cylinder	 3781 Half cylinder	 3782 Double cylinder, emergency function on one side
Functions/Coupling			
Standard function	■	■	
Emergency function, on one side			■
Emergency function, on both sides			
Freewheel function, forced uncoupling			
Emergency key function			
Hierarchy function			
Finish			
Brass, nickel-plated	■	■	■
Matt brass	□	□	□
Burnished brass			
Chrome-nickel steel			
Thumbturn in matching colour			
Features			
SL system			
Abrasion-resistant plugs			
Dust cap			
Protection against seawater			
Key duplication protection	□	□	□
Drilling/picking protection			
Anti-drill plate	■	■	■
Drilling protection	□	□	□
Drilling/picking protection	□	□	□
Type			
Order lengths BL, mm	27/27, 27/31, 27/35, 31/31	27, 31	27/31, 27/35
Outside with dummy plug			
Inside with dummy plug			
Fastening thread			
Earthing screw			
Lock indicator			
Thumbturn in different shape			
Cams			
Double locking cam			
4-way cam			
Cogwheel cam			
Pinion cam			
Cam special setting			
Cam with 8 possible positions		■	
Cam, spring-loaded			

■ = standard □ = optional

detect³® locking system, customer profiles

Service cylinder



detect³®

	3792 Double cylinder, emergency function on both sides	3786 Double cylinder with thumbturn
Functions/Coupling		
Standard function		■
Emergency function, on one side		
Emergency function, on both sides	■	
Freewheel function, forced uncoupling		
Emergency key function		
Hierarchy function		
Finish		
Brass, nickel-plated	■	■
Matt brass	□	□
Burnished brass	□	□
Chrome-nickel steel		
Thumbturn in matching colour		■
Features		
SL system		
Abrasion-resistant plugs		
Dust cap		
Protection against seawater		
Key duplication protection	□	□
Drilling/picking protection		
Anti-drill plate	■	■
Drilling protection	□	□
Drilling/picking protection	□	
Type		
Order lengths BL, mm	31/31	27/27, 27/31, 27/35, 31/31
Outside with dummy plug		
Inside with dummy plug		
Fastening thread		
Earthing screw		
Lock indicator		
Thumbturn in different shape		□
Cams		
Double locking cam		
4-way cam		
Cogwheel cam		
Pinion cam		
Cam special setting		
Cam with 8 possible positions		
Cam, spring-loaded		

■ = standard □ = optional



detect ³ ®			
	3724 Inside cylinder Ø 32 for rim lock	3744 Rim cylinder Ø 32 for rim lock	3760 Rim cylinder Ø 32 for rim lock
Locking function			
Key rotation			
Locking lever rotation			
Rotation without stop	■	■	■
Withdrawal of key in locked position only			
Withdrawal of key in locked/open position			
With feed function			
Finish			
Brass, nickel-plated	■	■	■
Matt brass	□	□	□
Burnished brass			
Features			
SL system			
Abrasion-resistant plugs			
Dust cap			
Protection against seawater			
Copy protection, spline shaft			
With anti-twist safeguard			
Without integral restraint			
With integral restraint			
Drilling/picking protection			
Anti-drill plate	■	■	■
Drilling protection		□	□
Drilling/picking protection			
Type			
Order lengths BL, mm			
Functional length, mm	20, 30	30	30
Height of shackle 35 mm			
Height of shackle 50 mm or 125 mm			
Body flattened at top			
Body flattened at the side		■	
Thread			
With microswitch			
Application			
Door thickness, mm	not specified	from 32	from 32
For deadbolt lock 4929			
For espagnolette/deadbolt lock 4919/4920			
For rim lock 4445		■	
For rim lock 4460, 4470			■

■ = standard □ = optional

detect³® locking system, customer profiles

Cylinder cam lock, padlock, switching cylinder


detect³®


	3766 Cylinder cam lock Ø 32	3728 Padlock	3787 Switching cylinder Ø 32
Locking function			
Key rotation	90°		90°
Locking lever rotation	90°		
Rotation without stop			
Withdrawal of key in locked position only	■		
Withdrawal of key in locked/open position		■	
With feed function			
Finish			
Brass, nickel-plated	■		■
Matt brass	□	■	
Burnished brass			
Features			
SL system			
Abrasion-resistant plugs			
Dust cap			
Protection against seawater		■	
Copy protection, spline shaft			
With anti-twist safeguard			
Without integral restraint		■	
With integral restraint		□	
Drilling/picking protection			
Anti-drill plate	■		■
Drilling protection	□		□
Drilling/picking protection			
Type			
Order lengths BL, mm			
Functional length, mm	29		30
Height of shackle 35 mm		■	
Height of shackle 50 mm or 125 mm		□	
Body flattened at top			
Body flattened at the side	■		■
Thread	M28		M28
With microswitch			■
Application			
Door thickness, mm			
For deadbolt lock 4929			
For espagnolette/deadbolt lock 4919/4920			
For rim lock 4445			
For rim lock 4460, 4470			

■ = standard □ = optional

PZ 88 conventional locking system



PZ 88



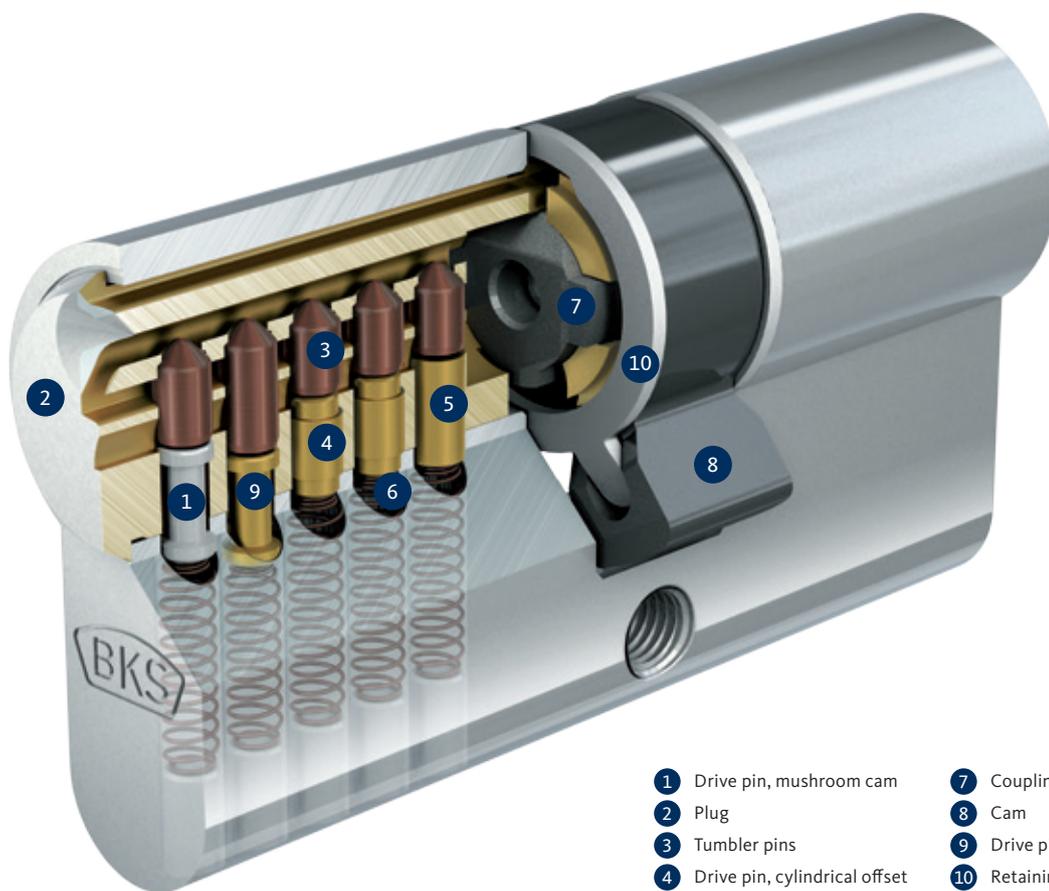
Quality, precision and durability are the trademarks of the **PZ 88** standard cylinder. The compact range offers the most common cylinder types for single key bitting or keyed-alike locking without a security card.

The standard locking system

Security and variety come as standard with the PZ 88 locking system: the range not only comprises double cylinders, half cylinders and cylinders with thumbturn, but also padlocks and rim locks in the BKS normal profile. Locking cylinders of this series are used for single key bitting or keyed-alike locking without security card. They come with optional emergency function on one or on both sides. The keys are also available with an individual customer embossment if desired.

Highlights

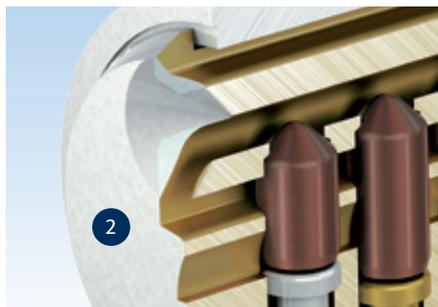
- Quick duplication: thanks to engraved key coding, readout of the originals is not required
- Simple operation: the familiar upright key position ensures an intuitive operation



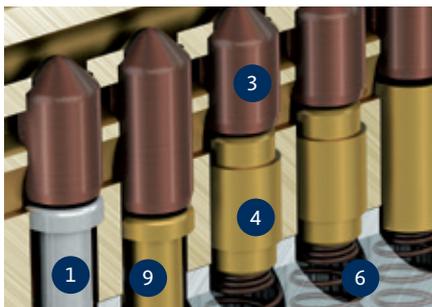
- 1 Drive pin, mushroom cam
- 2 Plug
- 3 Tumbler pins
- 4 Drive pin, cylindrical offset
- 5 Drive pin, cylindrical
- 6 Drive springs
- 7 Coupling
- 8 Cam
- 9 Drive pin, mushroom cam
- 10 Retaining rings

Cylinder construction

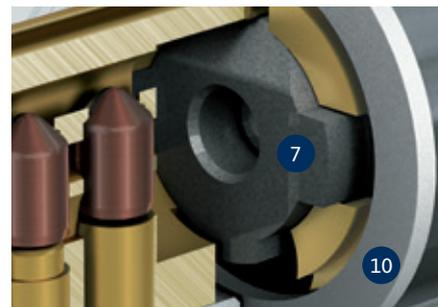
PZ 88 profile cylinders have 5-pin tumblers, are protected against bumping and have an anti-drill plate as standard.



Easy operation:
plug with conventional, paracentric key way and key channel for better insertion



Protection against manipulation:
special drive pin shapes prevent manipulation with picking tools.



Special functions:
different shapes of coupling enable important features such as the emergency function.

PZ 88 product range



PZ 88



Double cylinder

Available as standard cylinder or with emergency function.



Half cylinder

Can be used universally in many additional locking devices.



Padlock

Also available with extra-thin or high shackles.



Knob cylinder

The modular concept with detachable thumbturn.



Service cylinder

Completely pre-mounted for quick assembly of keyed-alike sets.



Assembly case

Contains all tools and parts for pinning the service cylinder.

Quick duplicate key service

Keys with BKS standard profile can be copied easily and quickly on standard commercial cutting machines.

Keyed-alike locking in an instant

Service cylinders are completely pre-assembled at the plant and can be turned into keyed-alike cylinders in a few steps.

Electronic order handling

Fixed order numbers are assigned to the whole range. In this way, orders can be recorded and tracked directly. An availability check is also possible.

Features and benefits of the PZ 88 conventional locking system

The PZ 88 locking system is our standard product within the mechanical locking technology range. The compact range offers the most common cylinder types for keyed-alike locking and customer embossments.



Standard equipment

- Tested in accordance with EN 1303 and DIN 18252
- Bumping protection standard
- 5-pin profile cylinder with paracentric key profile
- Cylinder body: nickel-plated brass or matt brass
- Key: nickel-plated steel
- Faceplate screw: M5 x 80 mm, nickel-plated steel
- Key coding for easy ordering of duplicate keys

Extra equipment

- Emergency function (GF)
- Faceplate screw with Security Torx

Technical data	
Order length (BL)	27, 31, 35 ... ascending in 5 mm steps up to 80 mm
Key bitting	standard locking, keyed-alike locking
Cam	standard
Emergency function	optional, on both sides from BL 31/31, on one side from BL 27/31
Freewheel function (FZG)	-
Drilling protection	optional, BSKA
DIN 18252	grade 70, optionally grade 71-BS (with BSKA)
Key related security according to EN 1303	grade 4
Resistance to attack according to EN 1303	grade 0
VdS variant	-
SKG** variant	optional

PZ 88 locking system

Profile cylinder



	8800 Double cylinder	8802 Double cylinder, emergency function on one side	8812 Double cylinder, emergency function on both sides
Functions/Coupling			
Standard function	■		
Emergency function, on one side		■	
Emergency function, on both sides			■
Freewheel function, forced uncoupling			
Emergency key function			
Hierarchy function			
Finish			
Brass, nickel-plated	■	■	■
Matt brass	□	□	□
Burnished brass			
Chrome-nickel steel			
Thumbturn in matching colour			
Features			
SL system			
Abrasion-resistant plugs			
Dust cap			
Protection against seawater			
Key duplication protection			
Drilling/picking protection			
Anti-drill plate	■	■	■
Drilling protection	□	□	□
Drilling/picking protection			
Type			
Order lengths BL, mm	27/27, 27/31, 27/35, 31/31	27/31, 27/35	31/31
Outside with dummy plug			
Inside with dummy plug			
Fastening thread			
Earthing screw			
Lock indicator			
Thumbturn in different shape			
Cams			
Double locking cam			
4-way cam			
Cogwheel cam			
Pinion cam			
Cam special setting			
Cam with 8 possible positions			
Cam, spring-loaded			

■ = standard □ = optional

PZ 88 locking system

Profile cylinder



	8806 Double cylinder with knurled knob	8900 Half cylinder
Functions/Coupling		
Standard function		■
Emergency function, on one side	■	
Emergency function, on both sides		
Freewheel function, forced uncoupling		
Emergency key function		
Hierarchy function		
Finish		
Brass, nickel-plated	■	■
Matt brass	□	□
Burnished brass		
Chrome-nickel steel		
Thumbturn in matching colour	■	
Features		
SL system		
Abrasion-resistant plugs		
Dust cap		
Protection against seawater		
Key duplication protection		
Drilling/picking protection		
Anti-drill plate	■	■
Drilling protection	□	□
Drilling/picking protection		
Type		
Order lengths BL, mm	27/27, 27/31, 27/35, 31/31	27, 31
Outside with dummy plug		
Inside with dummy plug		
Fastening thread		
Earthing screw		
Lock indicator		
Thumbturn in different shape	□	
Cams		
Double locking cam		
4-way cam		
Cogwheel cam		
Pinion cam		
Cam special setting		
Cam with 8 possible positions		■
Cam, spring-loaded		

■ = standard □ = optional

PZ 88 locking system

Service cylinder



	8890 Double cylinder	8892 Double cylinder, emergency function on one side	8893 Double cylinder, emergency function on both sides
Functions/Coupling			
Standard function	■		
Emergency function, on one side		■	
Emergency function, on both sides			■
Freewheel function, forced uncoupling			
Emergency key function			
Hierarchy function			
Finish			
Brass, nickel-plated	■	■	■
Matt brass	□	□	□
Burnished brass			
Chrome-nickel steel			
Thumbturn in matching colour			
Features			
SL system			
Abrasion-resistant plugs			
Dust cap			
Protection against seawater			
Key duplication protection			
Drilling/picking protection			
Anti-drill plate	■	■	■
Drilling protection			
Drilling/picking protection			
Type			
Order lengths BL, mm	27/27, 27/31, 27/35, 31/31	27/31, 27/35	31/31
Outside with dummy plug			
Inside with dummy plug			
Fastening thread			
Earthing screw			
Lock indicator			
Thumbturn in different shape			
Cams			
Double locking cam			
4-way cam			
Cogwheel cam			
Pinion cam			
Cam special setting			
Cam with 8 possible positions			
Cam, spring-loaded			

■ = standard □ = optional

PZ 88 locking system

Service cylinder



	8896 Double cylinder with knurled knob	8891 Half cylinder
Functions/Coupling		
Standard function		■
Emergency function, on one side	■	
Emergency function, on both sides		
Freewheel function, forced uncoupling		
Emergency key function		
Hierarchy function		
Finish		
Brass, nickel-plated	■	■
Matt brass	□	□
Burnished brass		
Chrome-nickel steel		
Thumbturn in matching colour	■	
Features		
SL system		
Abrasion-resistant plugs		
Dust cap		
Protection against seawater		
Key duplication protection		
Drilling/picking protection		
Anti-drill plate	■	■
Drilling protection	□	□
Drilling/picking protection		
Type		
Order lengths BL, mm	27/27, 27/31, 27/35, 31/31	27, 31
Outside with dummy plug		
Inside with dummy plug		
Fastening thread		
Earthing screw		
Lock indicator		
Thumbturn in different shape	□	
Cams		
Double locking cam		
4-way cam		
Cogwheel cam		
Pinion cam		
Cam special setting		
Cam with 8 possible positions		■
Cam, spring-loaded		

■ = standard □ = optional

PZ 88 locking system

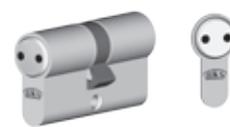
Padlock



8828 Padlock	
Locking function	
Key rotation	
Locking lever rotation	
Rotation without stop	
Withdrawal of key in locked position only	
Withdrawal of key in locked/open position	■
With feed function	
Finish	
Brass, nickel-plated	
Matt brass	■
Burnished brass	
Features	
SL system	
Abrasion-resistant plugs	
Dust cap	
Protection against seawater	■
Key duplication protection	
With anti-twist safeguard	
Without integral restraint	■
With integral restraint	
Drilling/picking protection	
Anti-drill plate	
Drilling protection	
Drilling/picking protection	
Type	
Order lengths BL, mm	
Functional length, mm	
Height of shackle 35 mm	■
Height of shackle 50 mm or 125 mm	□
Body flattened at top	
Body flattened at the side	
Thread	
With microswitch	
Application	
Door thickness, mm	
For deadbolt lock 4929	
For espagnolette/deadbolt lock 4919/4920	
For rim lock 4445	
For rim lock 4460, 4470	
■ = standard □ = optional	

Combi Series

Profile cylinder

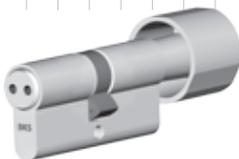


	3002 Double cylinder, dummy on both sides	3022 Half cylinder, dummy	3004 Double cylinder from both sides with socket wrench
Functions/Coupling			
Standard function			
Emergency function, on one side			
Emergency function, on both sides			
Freewheel function, forced uncoupling			
Emergency key function			
Hierarchy function			
Finish			
Brass, nickel-plated	■	■	■
Matt brass			□
Burnished brass			□
Chrome-nickel steel			
Thumbturn in matching colour			
Features			
SL system			
Abrasion-resistant plugs			
Dust cap			
Protection against seawater			
Key duplication protection			
Drilling/picking protection			
Anti-drill plate			
Drilling protection			
Drilling/picking protection			
Type			
Order lengths BL, mm	27/27, 27/31, 31/31	27, 31	27/27, 27/31, 27/35, 31/31
Outside with dummy plug	■	■	
Inside with dummy plug	■		
Fastening thread			
Earthing screw			
Lock indicator			
Thumbturn in different shape			
Cams			
Double locking cam			
4-way cam			
Cogwheel cam			
Pinion cam			
Cam special setting			
Cam with 8 possible positions			
Cam, spring-loaded			

■ = standard □ = optional

Combi Series

Profile cylinder

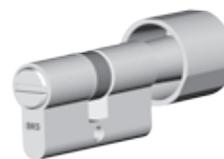
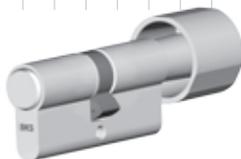


	3015 Double cylinder with thumbturn from one side with socket wrench	3017 Double cylinder with thumbturn and lock indicator	3018 Half cylinder with thumbturn
Functions/Coupling			
Standard function			■
Emergency function, on one side			
Emergency function, on both sides			
Freewheel function, forced uncoupling			
Emergency key function			
Hierarchy function			
Finish			
Brass, nickel-plated	■	■	■
Matt brass	□	□	□
Burnished brass	□	□	□
Chrome-nickel steel			
Thumbturn in matching colour	■	■	■
Features			
SL system			
Abrasion-resistant plugs			
Dust cap			
Protection against seawater	□		□
Key duplication protection			
Drilling/picking protection			
Anti-drill plate			
Drilling protection			
Drilling/picking protection			
Type			
Order lengths BL, mm	27/27, 27/31, 31/31	31/27, 31/31	27, 31
Outside with dummy plug			
Inside with dummy plug			
Fastening thread			
Earthing screw			
Lock indicator		■	
Thumbturn in different shape	□	□	□
Cams			
Double locking cam	□		□
4-way cam	□		□
Cogwheel cam	□		□
Pinion cam	□		□
Cam special setting	□		□
Cam with 8 possible positions			■
Cam, spring-loaded			

■ = standard □ = optional

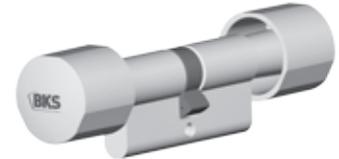
Combi Series

Profile cylinder



	3033 Double cylinder with thumbturn, one side dummy	3086 Double cylinder with thumbturn, one side with slot
Functions/Coupling		
Standard function		
Emergency function, on one side		
Emergency function, on both sides		
Freewheel function, forced uncoupling		
Emergency key function		
Hierarchy function		
Finish		
Brass, nickel-plated	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Matt brass	<input type="checkbox"/>	
Burnished brass	<input type="checkbox"/>	
Chrome-nickel steel		
Thumbturn in matching colour	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Features		
SL system		
Abrasion-resistant plugs		
Dust cap		
Protection against seawater	<input type="checkbox"/>	
Key duplication protection		
Drilling/picking protection		
Anti-drill plate		
Drilling protection		
Drilling/picking protection		
Type		
Order lengths BL, mm	27/27, 27/31, 31/31	27/27, 27/31, 31/31
Outside with dummy plug	<input checked="" type="checkbox"/>	
Inside with dummy plug		
Fastening thread		
Earthing screw		
Lock indicator		
Thumbturn in different shape	<input type="checkbox"/>	<input type="checkbox"/>
Cams		
Double locking cam	<input type="checkbox"/>	
4-way cam	<input type="checkbox"/>	
Cogwheel cam	<input type="checkbox"/>	
Pinion cam	<input type="checkbox"/>	
Cam special setting	<input type="checkbox"/>	
Cam with 8 possible positions		
Cam, spring-loaded		

= standard = optional



	3044 Half cylinder with socket wrench	3046 Double cylinder with thumbturn on both sides
Functions/Coupling		
Standard function	■	
Emergency function, on one side		
Emergency function, on both sides		
Freewheel function, forced uncoupling		
Emergency key function		
Hierarchy function		
Finish		
Brass, nickel-plated	■	■
Matt brass	□	□
Burnished brass	□	□
Chrome-nickel steel		
Thumbturn in matching colour		■
Features		
SL system		
Abrasion-resistant plugs		
Dust cap		
Protection against seawater		□
Key duplication protection		
Drilling/picking protection		
Anti-drill plate		
Drilling protection		
Drilling/picking protection		
Type		
Order lengths BL, mm	27, 31	27/27, 27/31, 31/31
Outside with dummy plug		
Inside with dummy plug		
Fastening thread		
Earthing screw		
Lock indicator		
Thumbturn in different shape		□
Cams		
Double locking cam		□
4-way cam		□
Cogwheel cam		□
Pinion cam		□
Cam special setting		□
Cam with 8 possible positions	■	
Cam, spring-loaded		

■ = standard □ = optional

Additional locking devices

Rim deadlock



	 4445 Rim deadlock Backset 45 mm	 4460 Rim deadlock Backset 60 mm	 4470 Rim deadlock Backset 70 mm
Type			
Without safe-T-catch	■	■	■
With safe-T-catch	□	□	□
With turn	■	■	■
With inside cylinder	□	□	□
Two deadbolt positions	■	■	■
Lock case for heavy-duty anchor fixing	■	■	■
Backset, mm	45	60	70
Clearance behind backset, mm	25	25	25
Colour			
Silver colour	■	■	■
Brown colour	□	□	□
White colour	□	□	□
Application			
Door height, mm			
Side of hinges, left/right	■	■	■
Inside cylinder 1324, 4624, 5024, 3724	■	■	■
Rim cylinder 1344, 3344, 4644, 5044, 3744	■		
Rim cylinder 1360, 3360, 4660, 5060, 3760		■	■
Cylinder 5117, 3317			
Turn knob			
Cylinder 5114, 3314, 4614			
Profile half cylinder BL 31 (e.g. 4601)			

■ = standard □ = optional

Additional locking devices

Espagnolette lock, deadbolt locks



	4919 Espagnolette lock for furniture cylinder or turn knob	4920 Deadbolt lock for furniture cylinder or turn knob	4929 Deadbolt lock for furniture cylinder
Type			
Without safe-T-catch			
With safe-T-catch			
With turn			
With inside cylinder			
Two deadbolt positions			
Lock case for heavy-duty anchor fixing			
Backset, mm	30, 40	40	25, 30, 35, 40
Clearance behind backset, mm	19	19	22
Colour			
Silver colour			
Brown colour			
White colour			
Application			
Door height, mm	up to 2,500		
Side of hinges, left/right	■	■	■
Inside cylinder 1324, 4624, 5024, 3724			
Rim cylinder 1344, 3344, 4644, 5044, 3744			
Rim cylinder 1360, 3360, 4660, 5060, 3760			
Cylinder 5117, 3317	■	■	
Turn knob	■	■	
Cylinder 5114, 3314, 4614			■
Profile half cylinder BL 31 (e.g. 4601)			

■ = standard □ = optional

Additional locking devices

Lift&Slide security device



	7710 Lift&Slide door security device for profile half cylinder
Type	
Without safe-T-catch	
With safe-T-catch	
With turn	
With inside cylinder	
Two deadbolt positions	
Lock case for heavy-duty anchor fixing	
Backset, mm	
Clearance behind backset, mm	
Colour	
Silver colour	
Brown colour	
White colour	
Application	
Door height, mm	
Side of hinges, left/right	■
Inside cylinder 1324, 4624, 5024, 3724	
Rim cylinder 1344, 3344, 4644, 5044, 3744	
Rim cylinder 1360, 3360, 4660, 5060, 3760	
Cylinder 5117, 3317	
Turn knob	
Cylinder 5114, 3314, 4614	
Profile half cylinder BL 31 (e.g. 4601)	■
■ = standard □ = optional	

Additional locking devices

For standard profile half cylinder



	7722 Lockable turn knob	7730 Padlock with stainless steel shackle for profile half cylinder
Type		
Without safe-T-catch		
With safe-T-catch		
With turn		
With inside cylinder		
Two deadbolt positions		
Colour		
Silver colour	■	
Brown colour		
White colour		
Application		
Door height, mm		
Side of hinges, left/right	■	
Inside cylinder 1324, 4624, 5024, 3724		
Rim cylinder 1344, 3344, 4644, 5044, 3744		
Rim cylinder 1360, 3360, 4660, 5060, 3760		
Cylinder 5117, 3317, 4617		
Turn knob 7722		
Cylinder 5114, 3314, 4614		
Profile half cylinder BL 31 (e.g. 4601)	■	■

■ = standard □ = optional

Certification and approvals

DIN, VdS, SKG, A2P



Grades to DIN 18252



Locking system	Grade 70	Grade 71-BS	Grade 71-BZ	Grade 80	Grade 82-BS	Grade 82-BZ
Mechatronic locking system SE						
janus Series 46				■	□	□
livius/livius SL Series 50/51				■	□	□
detect3 SL Series 33				■	□	□
detect3 Series 31	■	□	□	□	□	□
detect3 customer profiles Series 37	■	□	□	□	□	□
PZ 88	■					

■ = standard □ = optional

Approval according to VdS directives



Locking system	VdS-A	VdS-AZ	VdS-B	VdS-B(+)	VdS-BZ	VdS-BZ(+)
Mechatronic locking system SE					□	
janus Series 46						□
livius/livius SL Series 50/51						
detect3 SL Series 33				□		□
detect3 Series 31	□	□	□		□	
detect3 customer profiles Series 37						
PZ 88						

■ = standard □ = optional

Classification according to SKG standard



Locking system	SKG★★	SKG★★★
Mechatronic locking system SE		□
janus Series 46		□
livius/livius SL Series 50/51	□	
detect3 SL Series 33		□
detect3 Series 31	□	□
detect3 customer profiles Series 37	□	
PZ 88	□	

■ = standard □ = optional

Classification according to A2P standard

Locking system	A2P★
Mechatronic locking system SE	
janus Series 46	
livius/livius SL Series 50/51	□
detect3 SL Series 33	□
detect3 Series 31	□
detect3 customer profiles Series 37	□
PZ 88	

■ = standard □ = optional



Locking security classes to EN 1303

Requirement	Unit	Class						Parameter
		1	2	3	4	5	6	
Min. effective diversities	Number	100	300	15,000	30,000	30,000	100,000	-
Min. movable blocking devices	Number	2	3	5	5	6	6	-
Max. equal depth steps	Percent	100	70	60	60	60	50	-
Direct locking designation of key	-	Yes	Yes	No	No	No	No	-
Operation of security mechanism	Nm	1.5	1.5	1.5	1.5	1.5	1.5	Torque
Torsional rigidity of locking cylinder/plug	Nm	2.5	5	15	15	15	15	Torque

Attack resistance classes to EN 1303

Requirement	Unit	Class			Parameter
		0	1	2	
Drilling	Min.	-	3/5	5/10	Net drilling time/ overall time
Pulling out of the locking cylinder/plug	KN	-	15	15	Pulling force
	Min.	-	3	3	Overall time
Torsional rigidity of the locking cylinder/plug	Nm	See requirements for locking security	20	30	Torque

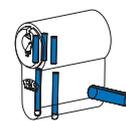
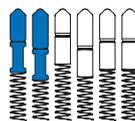
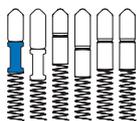
Requirements for locking cylinder in resistance classes to DIN EN 1627 – 1630

Burglar resistance class from Sept. 2011	RC 1N	RC 2N	RC 2	RC 3	RC 4	RC 5	RC 6
Burglar resistance class until Aug. 2011	RC 1	-	RC 2	RC 3	RC 4	RC 5	RC 6
Resistance time/total testing time	-	-	3/15 min	5/20 min	10/30 min	15/40 min	20/50 min
Locking security class to EN 1303	4	4	4	4	6	6	6
Attack resistance class to EN 1303	1	1	1	1	2	2	2
Class to DIN 18252	21-, 31-, 71-BZ	21-, 31-, 71-BZ	21-, 31-, 71-BZ	21-, 31-, 71-BZ	42-, 82-BZ	42-, 82-BZ	42-, 82-BZ
Class in accordance with DIN 18252 when using approved security hardware with cylinder cover	21-, 31-, 71-BS	21-, 31-, 71-BS	21-, 31-, 71-BS	21-, 31-, 71-BS	42-, 82-BS	42-, 82-BS	42-, 82-BS

The stated resistance time/total testing time applies for the complete door system (and not just the locking cylinder)

Drilling/picking protection

With pins arranged in a single row



Description	ABS Anti-drill plate	BSKA Drilling protection	BZKB Drilling/picking protection
DIN 18252		Class 71-, 82-BS	Class 71-, 82-BZ
Locking systems	livius/livius SL Series 50/51 detect3/detect3 SL Series 31/33 detect3 customer profiles Series 37 PZ 88	livius/livius SL Series 50/51 detect3/detect3 SL Series 31/33 detect3 customer profiles Series 37 PZ 88	livius/livius SL Series 50/51 detect3/detect3 SL Series 31/33 detect3 customer profiles Series 37 PZ 88
Features	Drive pin, hardened	Pin pairs, hardened	Pin pairs, hardened Plug reinforcement Body reinforcement Body security pin
Double cylinder	■	□	□
Double cylinder with emergency function	■	□	□
Double cylinder with freewheel function	■	□	□
Double cylinder with emergency key function	■	□	
Double cylinder with hierarchy function	■	□	
Double cylinder with thumbturn	■	□	□
Half cylinder	■	□	□
Half cylinder with freewheel function	■	□	□
Half cylinder with limited rotation	■	□	
Half cylinder with spring-loaded locking cam	■	□	
Half cylinder with fastening threads	■	□	□
Service cylinder	■	□	□
Switching cylinder	■	□	
Furniture lock cylinder	■	□	
Lockable turn knob	■	□	
Window handle lock	■	□	
Padlock			
Cylinder cam lock	■	□	
Cylinder cam lock with limited rotation	■	□	
Rim cylinder for rim lock	■	□	
Inside cylinder for rim lock	■	□	
BKS round cylinder	■	□	
Double cylinder, Swiss round profile			
Double cylinder with emergency function, Swiss round profile			
Half cylinder, Swiss round profile			
Half cylinder with knob, Swiss round profile			
Double cylinder with knob, Swiss round profile			
Cylinder lock for sliding doors			
janus SE cylinder			
SE double knob cylinder			
SE knob half cylinder			

■ = standard □ = optional

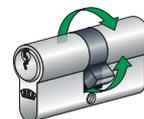
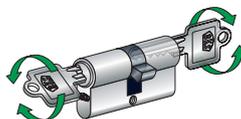
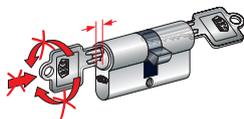


Description	BZWA Drilling protection	BZWB Drilling protection	BZWC Drilling/picking protection
DIN 18252	Grade 80	Grade 82-BS	Grade 82-BZ
Locking systems	janus Series 46 (master key system) janus SE cylinder	janus Series 46	janus Series 46 janus SE cylinder
Features	Plug disc, hardened steel	Plug disc, hardened steel Body reinforcement	Plug disc, hardened steel Body reinforcement Body security pin
Double cylinder	<input type="checkbox"/>	<input type="checkbox"/> *	<input type="checkbox"/>
Double cylinder with emergency function	<input type="checkbox"/>	<input type="checkbox"/> *	<input type="checkbox"/>
Double cylinder with freewheel function	<input type="checkbox"/>	<input type="checkbox"/> *	<input type="checkbox"/>
Double cylinder with emergency key function			
Double cylinder with hierarchy function			
Double cylinder with thumbturn	<input type="checkbox"/>	<input type="checkbox"/> *	<input type="checkbox"/>
Half cylinder	<input type="checkbox"/>	<input type="checkbox"/> *	<input type="checkbox"/>
Half cylinder with freewheel function	<input type="checkbox"/>	<input type="checkbox"/> *	<input type="checkbox"/>
Half cylinder with limited rotation	<input type="checkbox"/>	<input type="checkbox"/> *	
Half cylinder with spring-loaded locking cam	<input type="checkbox"/>	<input type="checkbox"/> *	
Half cylinder with fastening threads	<input type="checkbox"/>	<input type="checkbox"/> *	<input type="checkbox"/>
Service cylinder			
Switching cylinder	<input type="checkbox"/>		
Furniture lock cylinder	<input type="checkbox"/>		
Lockable turn knob	<input type="checkbox"/>		
Window handle lock	<input type="checkbox"/>	<input type="checkbox"/> *	
Padlock			
Cylinder cam lock	<input type="checkbox"/>		
Cylinder cam lock with limited rotation	<input type="checkbox"/>		
Rim cylinder for rim lock	<input type="checkbox"/>		
Inside cylinder for rim lock	<input type="checkbox"/>		
BKS round cylinder			
Double cylinder, Swiss round profile	<input type="checkbox"/> *		
Double cylinder with emergency function, Swiss round profile	<input type="checkbox"/> *		
Half cylinder, Swiss round profile	<input type="checkbox"/> *		
Half cylinder with knob, Swiss round profile	<input type="checkbox"/> *		
Double cylinder with knob, Swiss round profile	<input type="checkbox"/> *		
Cylinder lock for sliding doors	<input type="checkbox"/>		
janus SE cylinder	<input type="checkbox"/>		<input type="checkbox"/>
SE double knob cylinder			
SE knob half cylinder			

■ = standard = optional (* = standard with registered key biting)

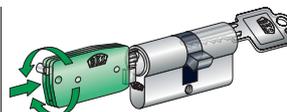
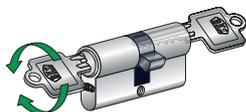
Functions

Profile cylinder



Description	Standard function Providing a key is inserted in one side of the cylinder, the cylinder will be blocked on the opposite side.	Emergency function Locking cylinder can be operated providing a suitable key is already inserted in the cylinder on the opposite side.	Freewheel function Once all keys have been removed, the cam can rotate freely. Cam also uncouples under preload.
Locking systems	All Series	All Series	detect3/detect3 SL Series 31/33 detect3 customer profiles Series 37 Series 50/51 janus Series 46 SE locking system
Double cylinder	■		
Double cylinder with emergency function		■	
Double cylinder with freewheel function			■
Double cylinder with emergency key function			
Double cylinder with hierarchy function			
Double cylinder with knob			
Double cylinder with emergency function and knob			
Half cylinder			
Half cylinder with freewheel function			■
Half cylinder with limited rotation			
Half cylinder with spring-loaded locking cam			
Half cylinder with fastening threads			
Service cylinder	■	□	□
Switching cylinder			
Furniture lock cylinder			
Lockable turn knob			
Window handle lock			
Padlock			
Cylinder cam lock			
Cylinder cam lock with limited rotation			
Rim cylinder for rim lock			
Inside cylinder for rim lock			
BKS round cylinder			
Double cylinder, Swiss round profile	■		
Double cylinder with emergency function, Swiss round profile		■	
Half cylinder, Swiss round profile			
Half cylinder with knob, Swiss round profile			
Double cylinder with knob, Swiss round profile			
Cylinder lock for sliding doors			
janus SE cylinder	■		
SE double knob cylinder	not specified	not specified	■
SE knob half cylinder	not specified	not specified	■

■ = standard □ = optional



Description	Emergency function on one side The locking cylinder can also then be operated from the outside, providing a suitable key is inserted in the cylinder on the inside.	Emergency key The locking cylinder can also be operated using the special emergency key if a suitable key is already inserted on the inside.	Hierarchy function The subordinate key has a limited rotation angle which only allows the latch to be operated via the latch lever. Cannot be combined with BS/ BZ and emergency function.
Series	detect3/detect3 SL Series 31/33 detect3 customer profiles Series 37 janus Series 46 PZ 88	detect3/detect3 SL Series 31/33	detect3 Series 31
Double cylinder		<input type="checkbox"/>	
Double cylinder with emergency function	<input checked="" type="checkbox"/>		
Double cylinder with freewheel function			
Double cylinder with emergency key function		<input checked="" type="checkbox"/>	
Double cylinder with hierarchy function			<input checked="" type="checkbox"/>
Double cylinder with knob			
Double cylinder with emergency function and knob	<input checked="" type="checkbox"/>		
Half cylinder			
Half cylinder with freewheel function			
Half cylinder with limited rotation			
Half cylinder with spring-loaded locking cam			
Half cylinder with fastening threads			
Service cylinder	<input checked="" type="checkbox"/>		
Switching cylinder			
Furniture lock cylinder			
Lockable turn knob			
Window handle lock			
Padlock			
Cylinder cam lock			
Cylinder cam lock with limited rotation			
Rim cylinder for rim lock			
Inside cylinder for rim lock			
BKS round cylinder			
Double cylinder, Swiss round profile			
Double cylinder with emergency function, Swiss round profile	<input checked="" type="checkbox"/>		
Half cylinder, Swiss round profile			
Half cylinder with knob, Swiss round profile			
Double cylinder with knob, Swiss round profile			
Cylinder lock for sliding doors			
janus SE cylinder			
SE double knob cylinder	not specified	not specified	not specified
SE knob half cylinder	not specified	not specified	not specified

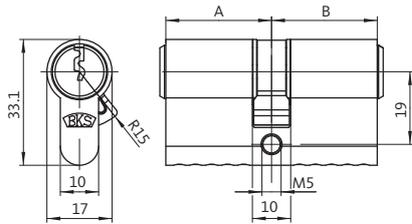
= standard = optional

Dimensioned drawings

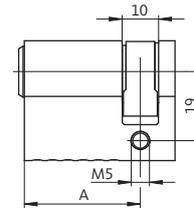
Locking cylinder



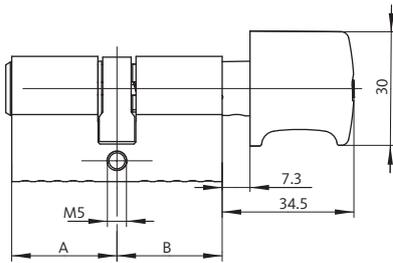
Double cylinder



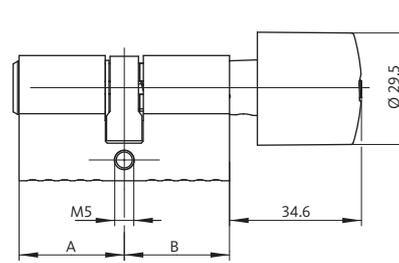
Half cylinder



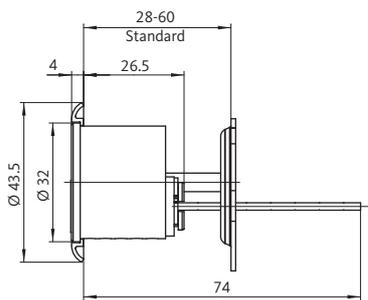
Double cylinder with recessed knob



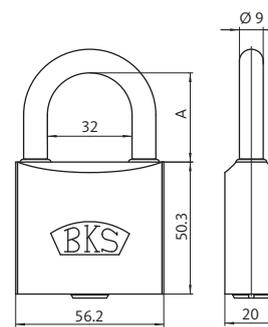
Double cylinder with BKS design knob



Rim cylinder

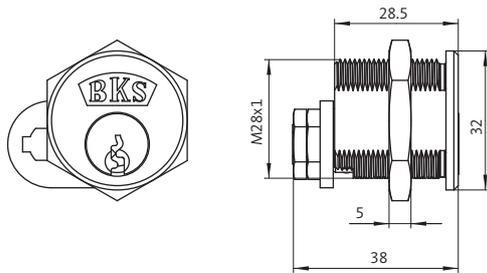


Padlock

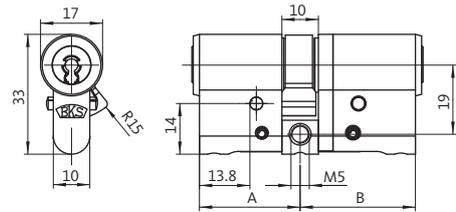




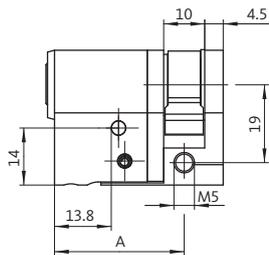
Cylinder cam lock



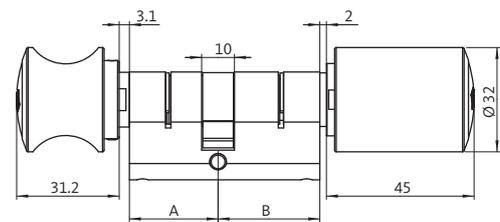
janus double cylinder



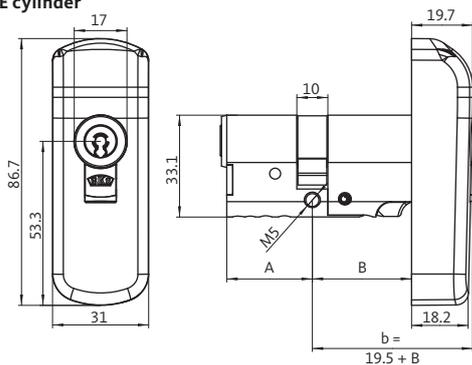
janus half cylinder



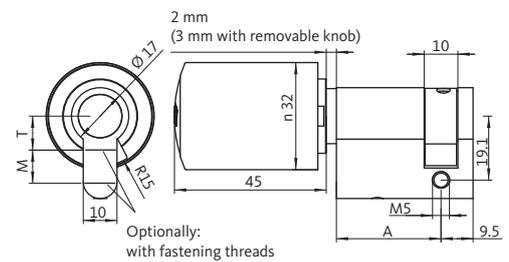
SE double knob cylinder



janus SE cylinder

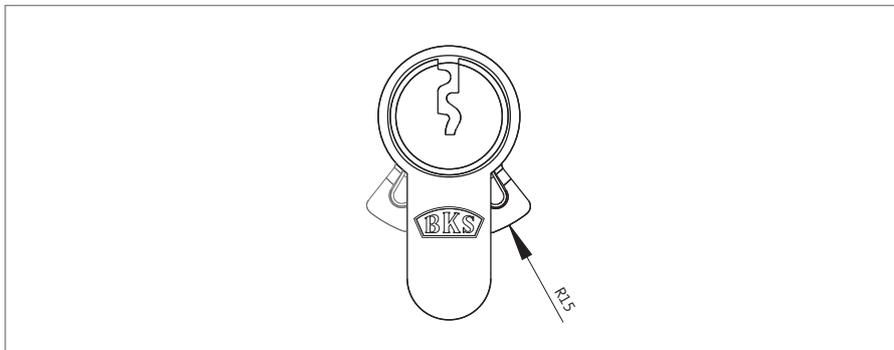


SE knob half cylinder



Cam

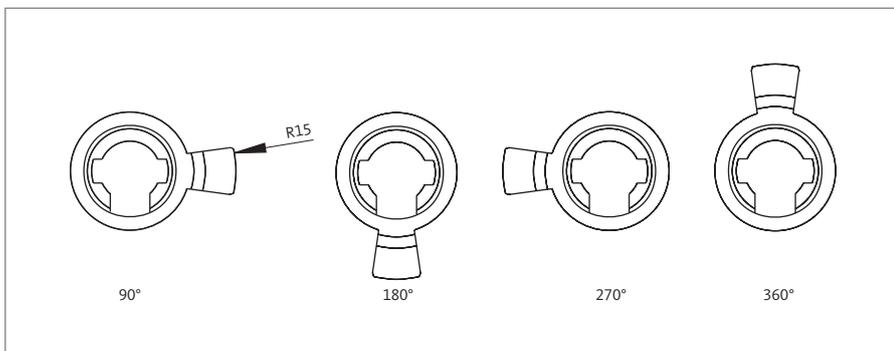
Shapes, positions



Cam position

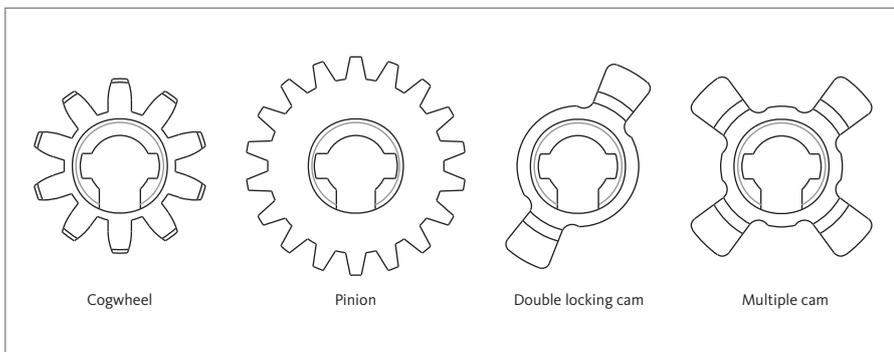
Unless otherwise specified when ordering, the profile double cylinders are delivered as shown opposite, with the cam pointing to the left or right.

Profile half cylinders are delivered with the cam swivelled in. The cam position can subsequently be adjusted.



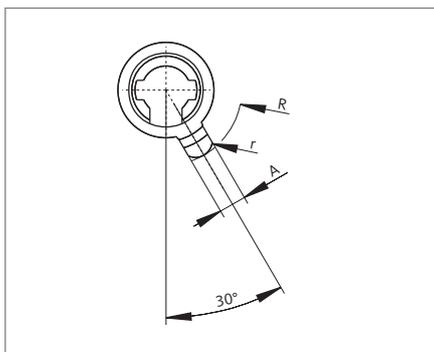
Other cam positions are required for special applications or for special lock types.

Cam positions with the angles shown on the left can be supplied if required.



Special cam shapes

Special cam shapes are often also required for special locks (crossbar locks for example). The shapes shown on the left are also available for profile, double or half cylinders.

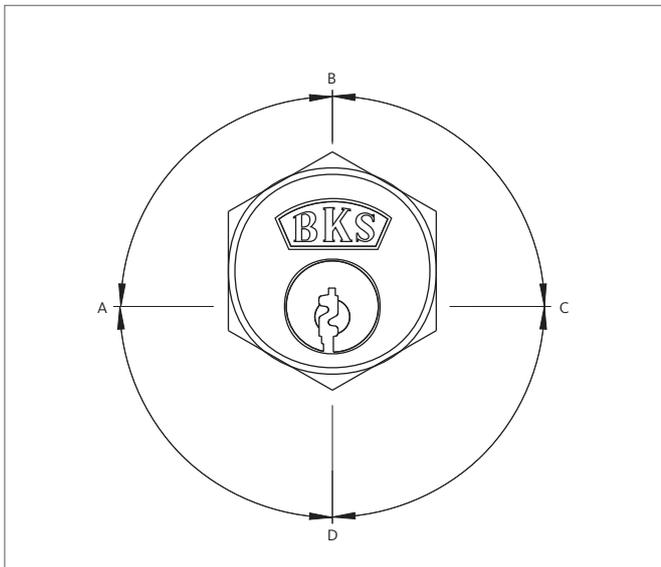


Special locking radius

R	A	r
13.2	4.8	-
14.8	4.8	-
14.7	5.5	3
13.2	-	3

Special locking radius

Cams are available with the special dimensions specified in the table below.



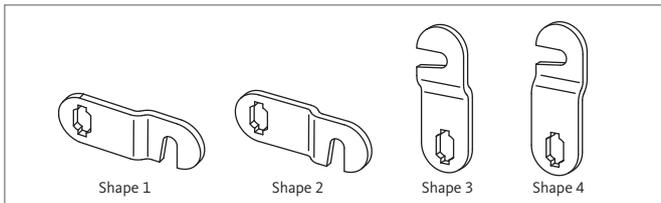
Rotation angles with cylinder cam locks

The rotation of the plug in cylinder cam locks is 90° as standard; the key can always be withdrawn in the normal position shown. The locking lever can have different rotation angles by positioning it accordingly.

Example: rotation A-B = locking lever in Position A (locked) when key is withdrawn, in Position B key not withdrawn.

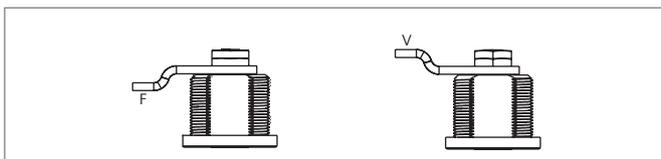
In **cylinder cam locks with limited rotation**, the plug and key rotate through 360° and the cam only turns through 90°. With the version with limited rotation, the key can be withdrawn when the cam is in both positions.

Example: rotation A-B = locking lever in Position A (locked) or in Position B (open); withdrawal of key in both positions.



Locking lever shapes

The locking lever shapes on the left are for cylinder cam locks with different lengths and cranks and are also available with or without hook bolts. Cylinder cam locks are supplied as standard with a straight locking lever, length 35 mm.



Locking lever arrangement

2 different arrangements are possible with cranked locking levers.

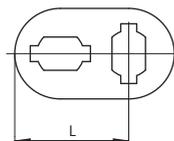
Position F (inwards position of locking lever) or Position V (extended position of locking lever) can be selected, depending on the position of the locking point.

Locking lever arrangement

Locking lever position	Withdrawal of key: (locked position)	Rotation	Shape
F	A	A - B	1
	C	C - B	2
	A	A - D	2
	B	B - A	4
	B	B - C	3
	C	C - D	1
	D	D - A	3
	D	D - C	4
V	A	A - B	2
	C	C - B	1
	A	A - D	1
	B	B - A	3
	B	B - C	4
	C	C - D	2
	D	D - A	4
	D	D - C	3

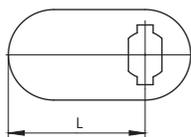
Locking lever

Shapes



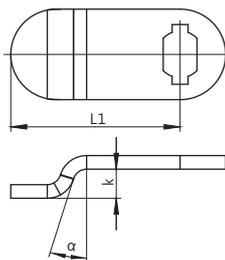
Standard lever, straight

Locked position "A", "B", "C" or "D"	
Order no.	L
B 7970 0070	25
B 7970 0071	30
B 7970 0072	35
B 7970 0073	40
B 7970 0074	45
B 7970 0075	50
B 7970 0076	55
B 7970 0077	60
B 7970 0078	65



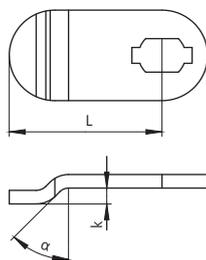
Locking lever, straight

Locked position "A" or "C"	
Order no.	L
B 7970 0090	35
B 7970 0093	50



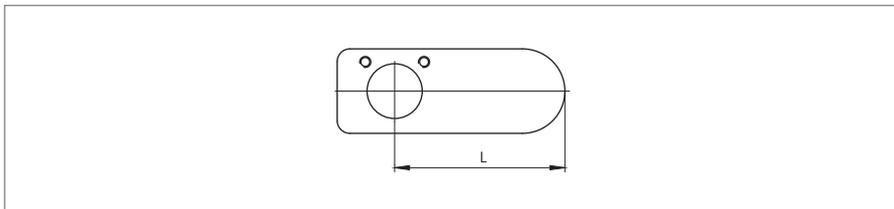
Locking lever, curved

Locked position "A" or "C"		
Order no.	L	k
B 7970 0100	33.5	3.5
B 7970 0102	43.5	3.5
B 7970 0103	48.5	3.5
B 7970 0104	53.5	3.5
B 7970 0105	32.1	7
B 7970 0107	42.1	7
B 7970 0109	47.1	7
B 7970 0110	52.1	7
B 7970 0112	41.3	9
B 7970 0113	46.3	9
B 7970 0114	51.3	9
B 7970 0115	35.4	11
B 7970 0116	40.4	11
B 7970 0119	34.6	13
B 7970 0122	49.6	13
B 7970 0123	38.8	15
B 7970 0124	43.8	15



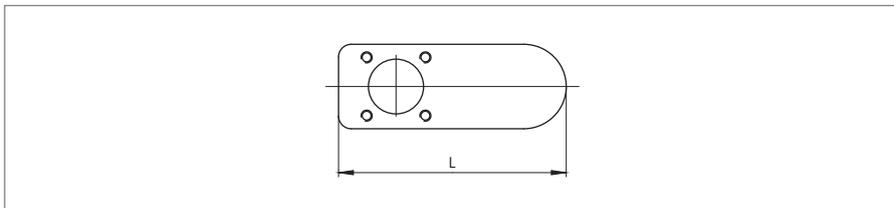
Locking lever, curved

Locked position "B" or "D"		
Order no.	L	k
B 7970 0150	33.5	3.5
B 7970 0153	48.5	3.5
B 7970 0157	42.1	7
B 7970 0165	40.4	11
B 7970 0173	43.8	15



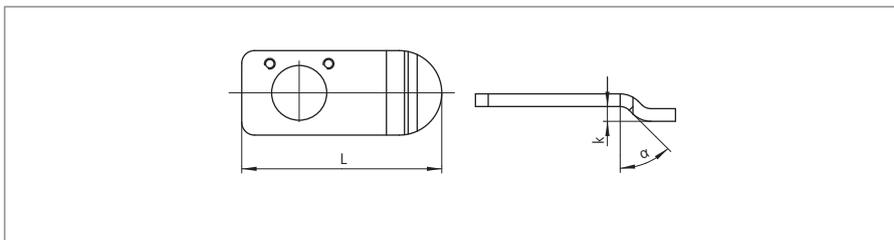
Straight locking lever for cylinder cam locks with limited rotation

Locked/open position	
Order no.	L
B 7970 0202	35
B 7970 0203	40



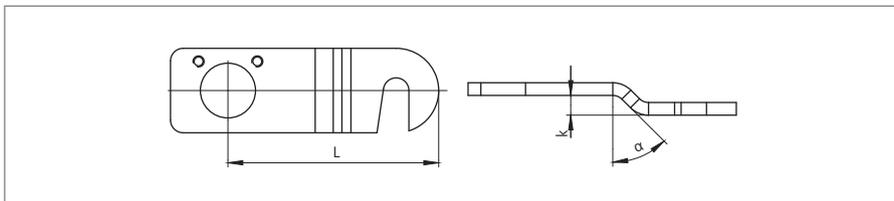
Straight locking lever for cylinder cam locks with limited rotation

Order no.	L
B 7970 0221	40



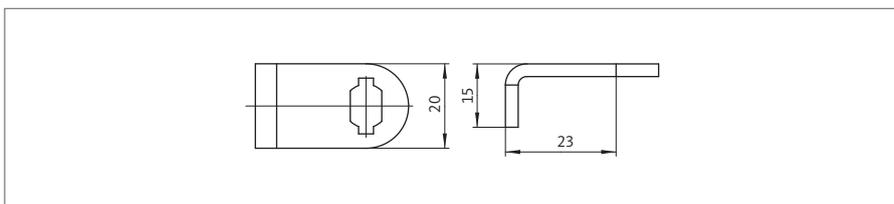
Curved locking lever for cam cylinder with limited rotation

Order no.	L	k
B 7970 0252	43.5	3.5
B 7970 0254	58.5	3.5
B 7970 0260	52.1	7
B 7970 0275	48.8	15



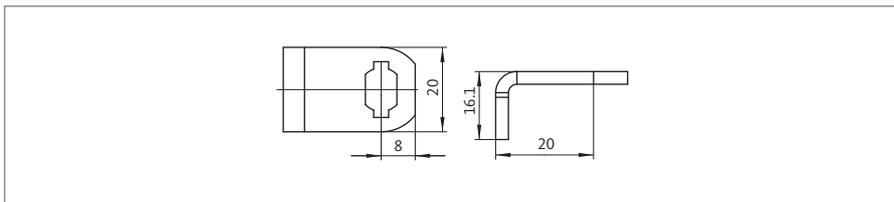
Curved locking lever for cam cylinder with limited rotation

Order no.	L	k
B 7970 0232	52.1	7



Special locking lever, curved for cylinder 2266

Order no.
B 7970 0284

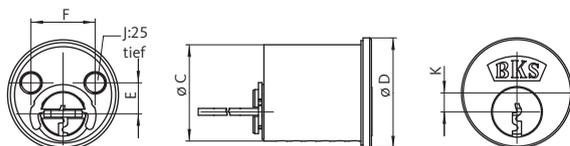


Special locking lever, curved for cylinder 2266/4666 (Renz)

Order no.
B 7970 0286

Rim cylinder

Thread, lengths



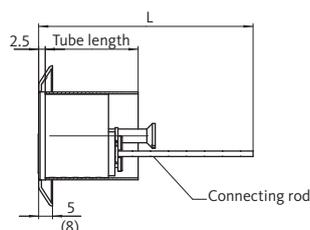
Fastening thread with rim cylinders

Position and distance of fastening thread with rim cylinders are designed as standard for the BKS range of rim locks.

Different positions and dimensions suitable for other makes of rim lock are possible in accordance with the table on the left. (from top to bottom Ikon, Winkhaus, Gege, Abus)

Fastening thread with rim cylinders

C	D	E	F	J	K
29	32	11	18	M6	6.5
28	32	6	21	M5	5.5
28	31.7	8	21	M5	5.5
28	30.4	7.5	18.5	M6	5.5



Tube length

Rim cylinders with a tube are required for special installation conditions and thinner doors. The tube and overall length L varies depending on the specified door thickness.

Connecting rod

Rosette height 5 mm		Rosette height 8 mm	
Door leaf thickness in mm	Tube length in mm	Door leaf thickness in mm	Tube length in mm
25 - 26	28	25 - 28	33
27 - 31	33	29 - 33	38
32 - 36	38	34 - 37	43
37 - 41	43	38 - 41	46
42 - 44	46	42 - 46	51
45 - 49	51	47 - 51	56
50 - 54	56	52 - 56	61
55 - 59	61	57 - 61	66
60 - 64	66	62 - 66	71
65 - 69	71	67 - 71	76
70 - 74	76		

Connecting rod

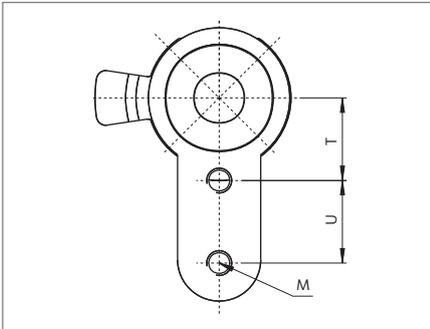
The connecting rod can be used universally for any door thickness up to 60 mm.

Screw length

Door leaf thickness in mm	Tube length in mm
up to 40	25
up to 50	35
up to 60	45
up to 80	65
up to 95	80
up to 115	100

Screw/tube length

The screw and tube length varies depending on the specified door thickness.

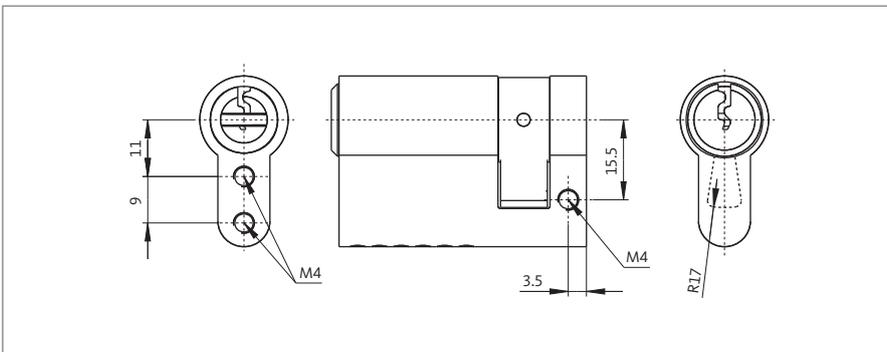


Fixing holes

T	U	M
10	10	M3
11	10	M3
11	9	M3
11	9	M4
12	9	M4
12.8	-	M4
20	-	M4

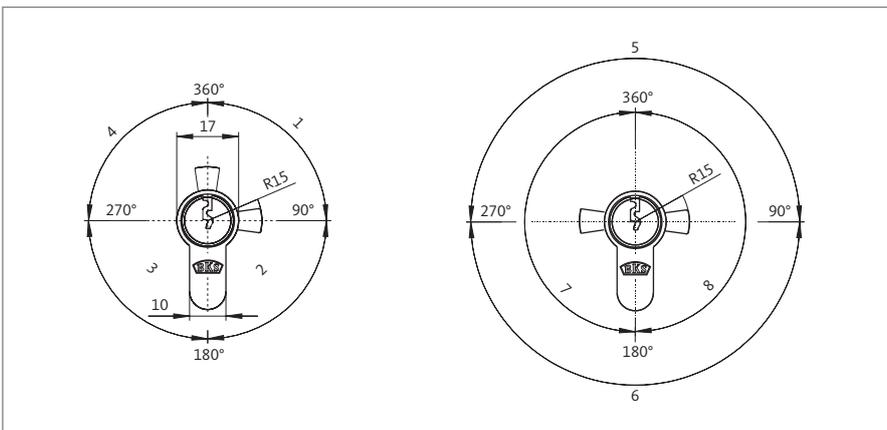
Fixing holes

Half cylinders are equipped with fixing holes so that can be fastened in switching equipment. The distances and threads are specified in the table.



Half cylinder with 17 mm locking radius

Cam in 180° position, locking radius R17, with earthing screw, fastening bores and dimensions as specified in drawing.

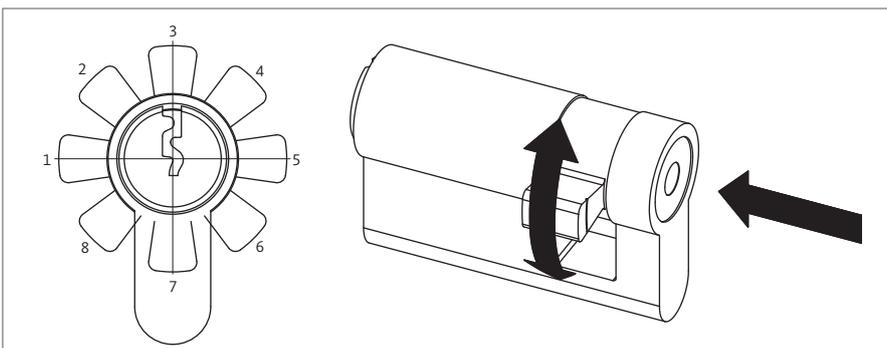


Half cylinders with limited rotation

Profile half cylinders are supplied with limited cam rotations in order to operate special functions. The key rotation is always 360°. The key can be withdrawn in both cam positions.

Choice of rotation angles 1, 2, 3 or 4 with 90° cam rotation.

Choice of rotation angles 5, 6, 7 or 8 with 180° cam rotation.



Cam with adjustable positions

In the standard half cylinder, the cylinder cam has 8 possible positions. The thrust screw must be turned in order to set the required position.

Cylinder protection

Dust cap, seawater protection, rosettes



Dust cap

In particularly dust-laden environments, protection of the cylinder locking mechanism using a protective cap is specially recommended. Examples of the different versions are shown below.

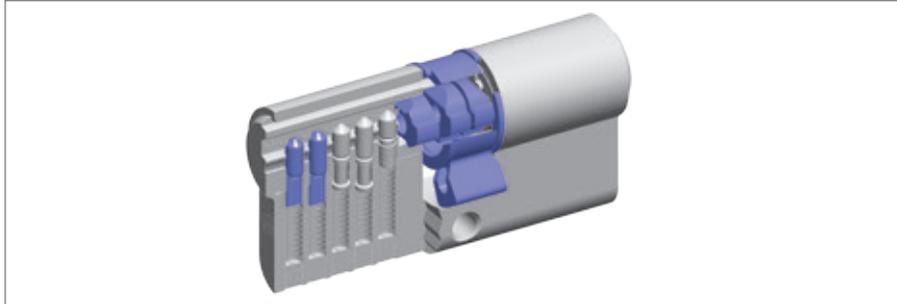


Protective cap for round cylinder Ø 32

with catch closure, chrome-plated or stainless steel.

Stainless steel rosette with protective cap, order no. B 9842 0020

Plastic cylinder protection cap with gloss chrome plating for round cylinder, order no. B 9842 0001



Protection against seawater

Cylinder versions with seawater protection provide increased reliability when used in highly corrosive environments. All moving parts are made of brass or stainless steel.



Stainless steel rosette

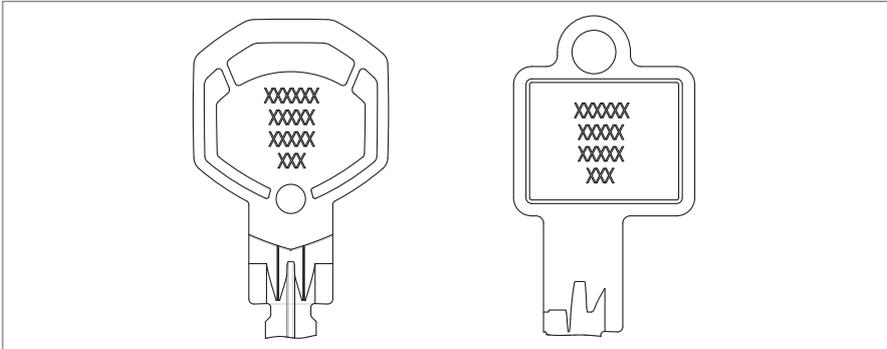
for profile cylinders in narrow stile profiles without PC hole, inner diameter 17 mm, order no. B 9129 0001



Cylinder cover

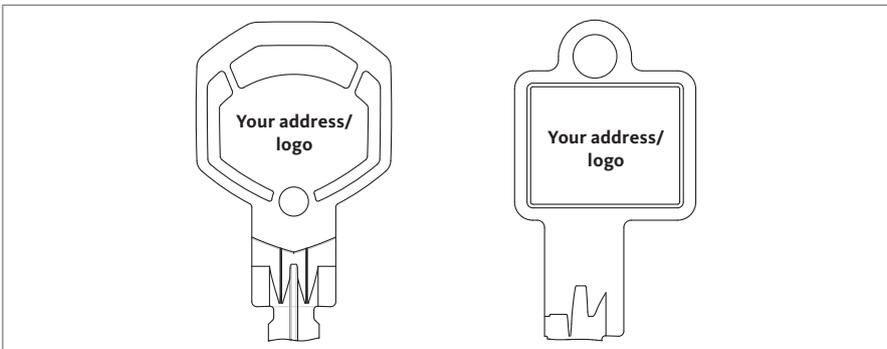
The cylinder cover for janus SE cylinders can be combined with BKS security hardware.

Cylinder cover	
Order no.	
B 5395 0001	F1 anodised
B 5395 0002	SS brushed
B 5395 0003	UC 5 burnished
B 5395 0004	White RAL 9010



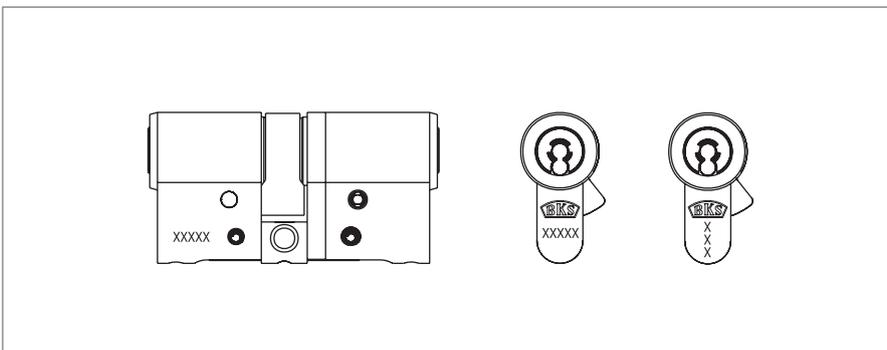
Key marking

In master key systems, keys are identified in the key combination record based on their locking code and are numbered consecutively. Group-specific assignment of locking codes is recommended with GMK systems.



Embossing/laser inscription

Personalised key bows are manufactured with special embossing (steel key) or laser inscription (nickel-silver key).



Body marking

In master key systems, cylinders are marked according to their single key biting.

Cylinders with certified drilling and picking protection elements are marked according to the corresponding classification to DIN 18252 (e.g. grade 71-BZ).

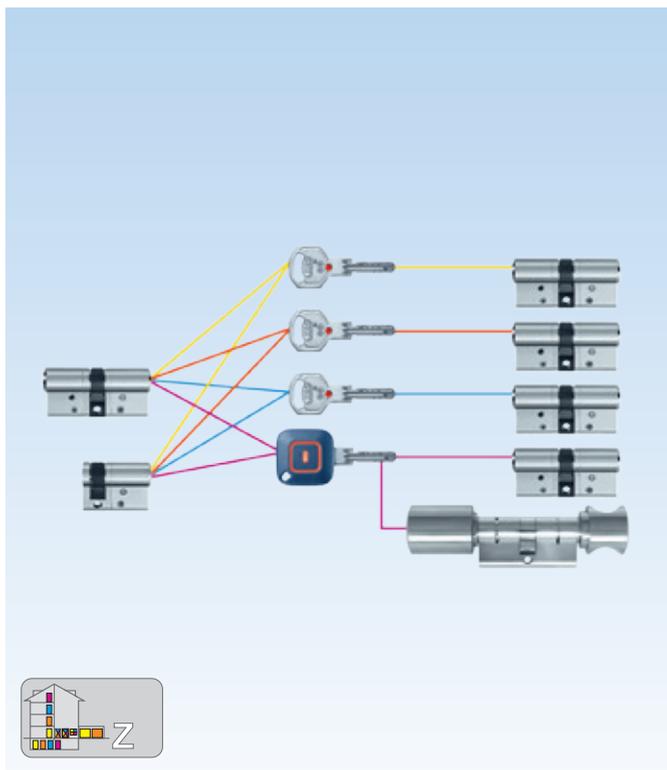


Key coding

Keys for profile cylinders in the PZ 88 system are coded based on the key biting. The purpose of key coding is to determine the key biting when reordering.

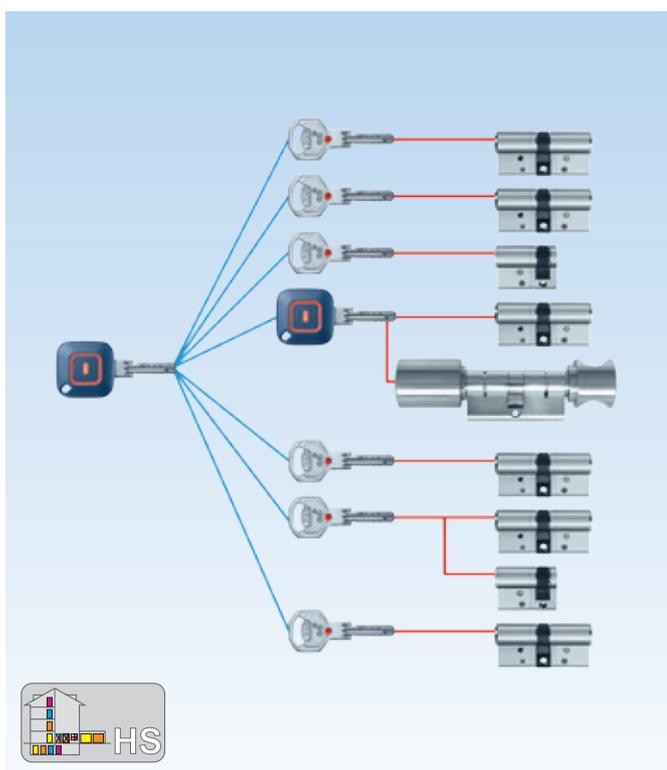
Master key systems

Basic functions



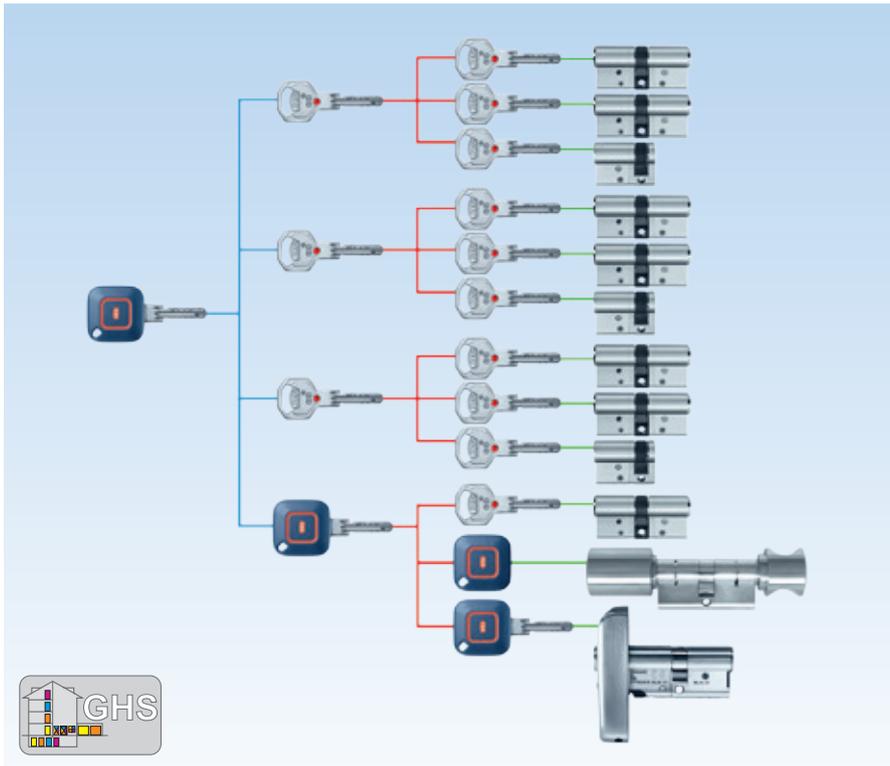
Variant 1: central cylinder system

The classic option for residential complexes, privately owned homes and freehold flats: central cylinder systems can be assembled from as many different cylinders as are required. Each key locks one or more central cylinders.



Variant 2: master key system

Master key systems can be used advantageously in office buildings, public facilities and on plant premises. The master key system consists of many cylinders, each of them locking differently. In principle, the single key allocated to a particular cylinder never fits another cylinder. The master key is the only superior key controlling all cylinders of the system.



Variant 3: grand master key system

The optimal solution for office buildings, universities or hotels: with a grand master key system you establish differing authorisation levels. The master key system consists of a random number of differently locking cylinders with different hierarchy levels or key biting groups. The superior grand master key controls all cylinders.

Product presentation

Sample cases



Presentation box janus

Presentation boxes/sample cases

Presentation boxes and sample cases are available for the presentation of BKS locking systems.

janus presentation box

Contains: 1 cylinder, 1 key
Order no. B 9922 0002

janus presentation box

Contains: 2 cylinders, 4 keys
Order no. B 9922 0001

livius presentation box

Contains: 1 cylinder, 1 cross-sectional model, 4 keys
Order no. B 9922 0004

detect3 presentation box

Contains: 1 cylinder, 1 cross-sectional model, 4 keys
Order no. B 9922 0003



SE sample case

Sample case, mechanical locking systems

Contains: 14 cylinders, 2 cross-sectional models, 13 keys, 1 VIP key, 1 rim lock, 1 padlock, 1 deadbolt lock, 1 cam cylinder, 1 rim cylinder, 1 turn, 1 turn handle knob
Order no. B 9922 0005

Sample case for SE electronic locking system

Contains: 1 SE double knob cylinder, 1 janus SE cylinder, 1 cylinder, 1 programming device, 1 SE wall reader, 4 SE transponders, 3 keys, accessories
Order no. B 5355 0200



Assembly case detect3

Assembly case

Preassembled assembly cases are available for repinning service cylinders and adjusting the length of janus cylinders.

janus assembly case

Including installation aids
Available for double cylinder or double and half cylinder

Assembly case livius Series 50/51

Available with/without assembly tool

Assembly case detect3 Series 37

Available with/without assembly tool
Available with/without wafers for master key systems

Assembly case PZ 88

Available with/without assembly tool



janus double cylinder

Order no. B 9921 0003

- Plug extensions
- Body cap extensions
- Coupling extensions
- Clamping pins
- Security pins
- Spiral locking pins
- Couplings, double cylinder
- Cams, double cylinder
- Retainer rings, double cylinder
- Connector, double cylinder
- Assembly aid, cylinder mount
- Assembly aid, long/short drift punch

livius Series 50

Order no. B 9920 0018

- Tumbler pins
- Drive pins
- Retaining rings
- Cams
- Couplings
- Coupling extensions
- Springs
- Wafers

with tools (additional)

Order no. B 9920 0019

- Mounting knife
- Assembly clamps
- Assembly pliers
- Assembly rod
- Disassembly pliers
- Pincette

janus double and half cylinder

Order no. B 9921 0005

- Plug extensions
- Body cap extensions
- Coupling extensions
- Clamping pins
- Security pins
- Spiral locking pins
- Couplings, double and half cylinder
- Cams, double and half cylinder
- Retainer rings, double and half cylinder
- Connector, double and half cylinder
- Assembly aid, cylinder mount
- Assembly aid, long/short drift punch

PZ 88

Order no. B 9920 0014

- Tumbler pins
- Drive pins
- Retaining rings
- Cams
- Couplings
- Coupling extensions
- Springs
- Disassembly key

with tools (additional)

Order no. B 9920 0015

- Mounting knife
- Assembly clamps
- Assembly pliers
- Assembly rod
- Disassembly pliers
- Pincette

detect3 customer profiles

Order no. B 9920 0010

- Tumbler pins
- Drive pins
- Retaining rings
- Cams
- Couplings
- Coupling extensions
- Springs

with tools (additional)

Order no. B 9920 0011

- Mounting knife
- Assembly clamps
- Assembly pliers
- Assembly rod
- Disassembly pliers
- Pincette

detect3 customer profiles for master key systems

Order no. B 9920 0012

- Tumbler pins
- Drive pins
- Retaining rings
- Cams
- Couplings
- Coupling extensions
- Springs
- Wafers

with tools (additional)

Order no. B 9920 0013

- Mounting knife
- Assembly clamps
- Assembly pliers
- Assembly rod
- Disassembly pliers
- Pincette

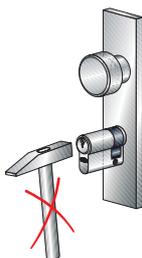
Instructions for use

Installation, use and maintenance



Installation

The locking cam must downward to insert the cylinder. Do not drive the cylinder in the lock by using force.



Installation

Maximum cylinder projection on outside should not exceed 3mm.



Use

Insert the key always right down.



Use

Do not pull/push the door open via the inserted key.



Maintenance

Maintain locking cylinder every 6 months with care spray.



Maintenance

Never lubricate the cylinder with oil or graphite.



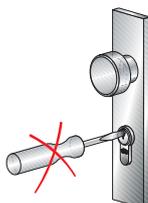
Misuse

Do not use bent keys.



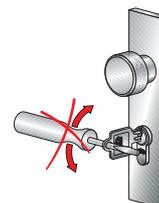
Misuse

Do not insert any obstacles in the keyway.



Misuse

Do not apply any tools on the key bow.





According to the German Product Liability Act defining the liability of a manufacturer for his products, the following information about locking cylinders must be observed.

We as manufacturer will not accept liability for non-observance of this information.

1. Product information and intended use

For the purpose of this definition, a locking cylinder is a component which is installed, and in general also replaced, in locks, hardware, devices, doors or products or related products. Other locking cylinder versions must be handled in a similar manner.

In order to operate the locking cylinder correctly, it is assigned at least 1 key. If explanations of the terms for locking cylinders and master key systems are not provided in the relevant section of the catalogue, these are explained or illustrated in DIN 18252. When referring to these terms and designations, the following must be observed in the interest of proper use:

1.1 Locking cylinders may only be installed in locks, hardware, devices, etc. without any reservation if they comply with a dimensional standard (e.g. DIN 18 252), and if the locks, hardware, devices, etc. are in turn explicitly designed for cylinders to this standard. In all other cases, the manufacturers, dealers, fabricators or users of such locks must ensure that the chosen locking cylinders are suitable for installation and for the intended use. Mandatory legal regulations must be observed. For example, locking cylinders with knob, turn or similar handle must not be installed in panic locks unless they have been expressly approved for use with the lock system.

1.2 Locking cylinders that could be exposed to forceful attack are not allowed to project more than 3 mm beyond the security hardware that surrounds them tightly. The extent of the burglar-inhibiting measures depends on the requirements (see for example DIN 18 252). A locking cylinder with drilling and picking protection may need to be specified.

1.3 Locking cylinders must be installed in such a way that no external forces act on the locking cylinder outside the intended attachment points and which are not associated with normal actuation. In addition, when the key is withdrawn, external forces must not be applied to the cam or to the locking lever in the turn direction.

1.4 Special versions of locking cylinders must be specified for damp or cool rooms, if exposed directly to the elements, close to the sea or for use in aggressive surroundings conducive to corrosion. The same applies if the locking cylinders are to be used in a particularly dust-laden environments.

1.5 Normally, a profile cylinder with 2 locking ends cannot be operated using the key if there is already a key in the opposite end of the cylinder. If this is required, a locking cylinder with corresponding features must be selected.

1.6 When the key is used correctly, the torque is only allowed to be transferred to the key if the key has been inserted all the way to its stop in the key way of the locking cylinder.

1.7 Locking cylinder and key form one functional unit. We only accept liability for our original products.

1.8 Keys supplied subsequently for locking cylinders must be checked as soon as they are received to make sure they function correctly in the corresponding locking cylinder.

2. Misuse

Misuse of locking cylinders or keys – i.e. incorrect use of the product – has for example occurred if:

2.1 An attachment such as a nail, pliers, bunch of keys or the like is applied to the key bow or the head of the key to increase the torque. In the interests of intruder security, the key way and therefore also the key shank, has a consciously slender design so that the torque can only be transferred to the head of the key directly by hand.

2.2 The key is used as a handle component for moving the door leaf. The key is not a suitable substitute for hardware (knob, lever handle, handle, etc.) on passageways doors.

2.3 The locking cylinder is operated with a counterfeit, bent or damaged key.

2.4 An attempt is made to operate the locking cylinder with locksmith's tools, other equipment or replacement keys not supplied by the manufacturer.

2.5 There are foreign bodies in the key way or on the key itself, or if the maintenance instructions have not been followed.

3. Product performance

Technical requirements on the individual locking cylinders other than those determined in our catalogues, brochures, performance specifications, etc. must be agreed with us. Refer to the DIN 18252 standard: "Profile cylinders for door locks" for guidance in this respect. This standard defines the basic and additional requirements on profile cylinders. The content of the standard should be applied accordingly to other locking cylinders. The serviceability of locking cylinders also depends on the operating frequency, operating method, environmental effects and maintenance. Locking cylinders and keys must be renewed as soon as malfunctions occur despite correct maintenance, especially when inserting or withdrawing the key.

4. Product maintenance

Locking cylinders must be treated at least twice a year – possibly more frequently depending on the intensity of use – using the care agents recommended by us. As a basic rule, locking cylinders must not be treated with resinifying substances such as oil or graphite. Only detergent not containing corrosive ingredients may be used.

5. Duty to inform and to instruct

In order to comply with the informational and instructional duties prescribed by the German Product Liability Act, the following documents and services are made available to specialist dealers, locksmiths, architects, planners, advisory bodies, fabricators and end users:

- catalogues, brochures
 - tender specifications, quotation documents, key combination records
 - DIN 18 252 (exclusive distribution by Beuth Verlag GmbH, Berlin 30)
 - instructions for installation, operation and maintenance
 - technical support directly from us or from our consulting field service
- For the selection, installation, operation, and maintenance of locking cylinders:

5.1 Architects, planners and consulting institutions should request all required product information from us and comply with it.

5.2 Specialist dealers should observe the product information and the information given in the price lists, and specifically request all necessary instructions from us and forward these to the fabricators and consumers.

5.3 Fabricators should observe all product information and specifically request operating and maintenance instructions from us and forward these to contractors and consumers.

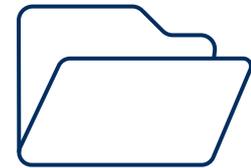
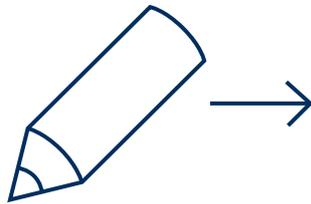
Efficient planning and ordering



Planning the master key system

Ordering the master key system

Managing the master key system



The products alone are not a solution. You can only benefit from security, function and cost-effectiveness with the corresponding service. Therefore, the GU Group continues the system concept of the product range in the service offer. Intelligent software solutions, user-friendly online tools and an extensive retailer network feed into one another and simplify your everyday work.

The BKS MasterKeySystem offers flexible support

Use the intelligent BKS MasterKeySystem to plan master key systems with mechanical, mechatronic and electronic locking cylinders. The user-friendly online platform guides you through the planning process step by step.

The BKS MasterKeySystem ensures smooth processes

As soon as you have set up your master key system using the BKS MasterKeySystem, the system leads you directly through the straightforward ordering procedure. The order function can also be used to expand existing master key systems and to reorder keys and cylinders.

With the BKS KeyManager you have everything under control

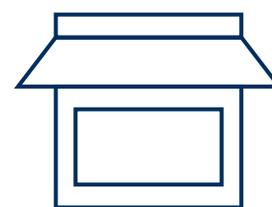
With the BKS KeyManager you have your whole master key system under control on just one user interface. This software manages mechanical, mechatronic and electronic cylinders and keys. And also flexible access points such as wall readers – clear, convenient and secure.

Reordering

Duplicate keys

Internet retailers

On-site retailers



The BKS MasterKeySystem delivers supplies quickly

Log in and get going: the BKS MasterKeySystem also makes reordering keys and cylinders an easy process. Thanks to your saved master key system data, reordering is simple and takes just a few clicks.

It's even faster with a security card reader

Reordering, expanding or registered key bittings: the BKS security card reader makes everything even simpler. Security cards can be read directly in the lock and security equipment store. Data is stored on the device and can be transferred directly via the BKS MasterKeySystem when ordering duplicate keys.

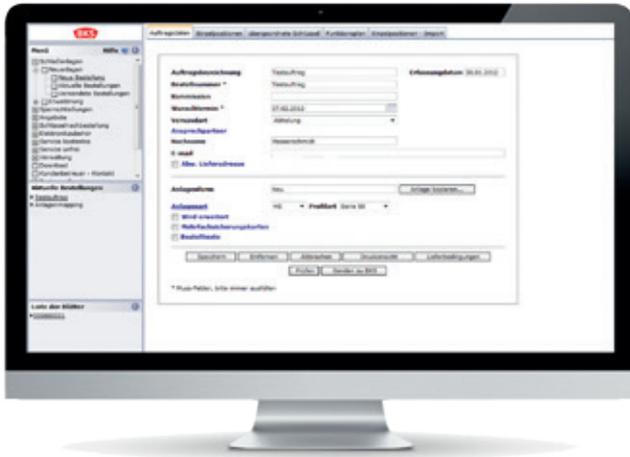
Search and find quickly online

Where is the nearest BKS retailer? You are sure to find it using the search field on the main menu of the Gretsch-Unitas website. Just provide a postcode or a city or select an area and a list appears straight away with competent locksmiths and specialist retailers who can help you further on-site.

Personal and competent contact person

BKS is always there for you when you need us. Our comprehensive network of BKS specialist dealers guarantees competent advice and reliable service for all aspects of your master key system.

Efficient planning and ordering



BKS MasterKeySystem: plan and order online

With the BKS MasterKeySystem, you can count on error-free data transfer and reduced dispatching expenses, shortened delivery times and constant updating of the whole system when planning and ordering master key systems.

MKS is the online platform for planning and ordering master key systems. Numerous user friendly functions simplify the operation of the whole master key system and ensure a smooth ordering process. Together with the portable security card reader, MKS offers unique advantages when expanding existing master key systems and reordering keys and cylinders.

Functions

- Planning and ordering of master key systems with mechanical, mechatronic and electronic locking cylinders
- Extensions of existing master key systems
- Ordering of registered key bittings
- Repeat order of keys and cylinders
- Key combination records for download
- Master key system data for use in the BKS KeyManager
- Key identifications
- Plausibility check

Portable security card reader: easy reordering

Reordering cylinders and keys has never been so easy: the mobile security card reader is a full-featured replacement for the commonly used order slip imprinters and also offers decisive cost and time savings.

The mobile device works quickly, functions independently from the PC and saves you unnecessary costs. Security cards can be read directly on site or in the lock and security equipment store. The data records are stored in the device and can be used at a later time for reordering and extension of master key systems and registered key bittings through MKS.

Functions

- Reading of security cards for master key systems and registered key bittings with security cards
- Storage of the read-in data records
- Transfer of the data records to MKS
- Costs for order slip procurement eliminated
- Portable security card reader, order no. B 3921 0001
- Card reader (hard-wired), order no. B 3920 0001





BKS KeyManager: manage master key systems efficiently

Manage and program master key systems securely and efficiently. You have the right solution with the BKS KeyManager: the software unites mechanical, mechatronic and electronic components in a single system. The advantage: you have all cylinders and keys under control on one user interface.

If purely mechanical master key systems are managed at first, the KeyManager can be optimally adapted, thanks to graduated software packages. When expanding the master key system with electronic and mechatronic locking cylinders, the KeyManager is easy to extend.

Functions

- Comprehensive administration of mechanical, mechatronic and electronic cylinders and readers with one user interface.
- Display and printing of mechanical and electronic access authorisations
- Easy programming through a locking scheme matrix
- Programming cylinders, from simple YES/NO programming to time-controlled authorisation or special functions
- Data transmission to the electronic cylinders, either offline by means of the programming device, Data on Transponder (virtual networking), or online via network and radio control
- Event query
- Network-capable (client/server application)



Order by Scanning (Obs): scanner ordering system for lean logistics

Order by Scanning (Obs) is a very high-quality and easy-to-use scanner ordering system to record material order requirements for production, warehouse and administration by means of special barcode labels.

The scanned data are transmitted to the GU Group through the PC online via internet. The corresponding order number is displayed directly. The scanner can also be used for stocktaking including the value of goods.

The Gretsch-Unitas Group will support you in setting up this superior logistics concept. In the course of a project cycle, the optimum for the customer is defined through an ABC analysis of the article, clarification of the inventory and requirements situation as well as the warehouse and shelf organisation.

Functions

- Elimination of entry errors
- Shorter procurement lead times
- Just-in-time delivery
- Reduced material disposition expense



Successfully certified



Unique to the industry and region – the main BKS plant in Velbert is certified according to the standard for environmental requirements EN ISO 14001:2009 and the standard for energy requirements EN ISO 50001:2011. This was approved by the independent, accredited certification body (AGQS) in February 2015. A quality assurance system according to EN ISO 9001:2008 does not just confirm security in writing.

Conserves resources and the environment: environmental management at BKS

The certified environmental management system according to ISO 14001 is valid worldwide. It represents a forward-looking approach towards personal responsibility and commitment. With the company moving towards sustainability, accompanied by the appropriate measures, we are continuously improving the environmental management system.

Efficiency up, emissions down: energy management at BKS

The aim of the energy management system according to ISO 50001 is to continually improve the company's energy-related performance. By optimising "energy performance", BKS improves its energy-related performance and increases its energy efficiency. Positive side-effect: by reducing energy consumption, emissions that result from energy and heat generation are also reduced.

Product and service quality can be planned: quality management at BKS

EN ISO 9001:2008 defines a company's structural, operational and quality management requirements. AGQS certification confirms that the internal processes – from development through to sales and customers – meet the standard requirements and the high-quality requirements at BKS.



Signed and sealed: BKS takes on responsibility for its customers and the environment.



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.

This publication has been compiled to the best of our knowledge. The Gretsch-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 this publication may differ from the actual product.

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