



WINDOW TECHNOLOGY  
DOOR TECHNOLOGY  
AUTOMATIC ENTRANCE SYSTEMS  
BUILDING MANAGEMENT SYSTEMS



DOOR TECHNOLOGY



Precision and security –  
Mechanical and mechatronic locking systems

Securing technology for you



# Mechanical and mechatronic locking systems

Universal and variable



## The **NEW** janus

Patent term until 2025



**More security**

### Cutting-edge locking systems

#### **The BKS brand**

Security has a name, or rather, it has a brand. BKS GmbH – a member of the Gretsch-Unitas Group. More than a century of experience in manufacturing high quality locking systems. Since the development of the round cylinder in 1938, BKS GmbH has remained one of the leading companies when it comes to 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 open up flexible design options for subsequent upgrades as well.

#### **A variety of solutions**

Locking systems from BKS offer a variety of solutions for securing individual doors and planning modern master key systems. The combination of mechanical and mechatronic locking systems makes it possible to design in convenience and security individually and achieve them economically.

#### **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, administration and ordering of duplicate or replacement keys and cylinders.



### **Mechatronic locking system SE**

Refined electronic and mechanical security: the modern, flexible SE mechatronic 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 especially energy-efficient operation and the little installation effort it requires, you will be on secure ground in terms of costs as well.



### **Reversible key systems**

Convenient security: With a reversible key system from BKS you can rely on innovative cylinder technology with built-in operating convenience. From registered key bittings with security card to patent-protected key profiles for master key systems. BKS reversible key systems let you solve almost every application requirement exactly. All systems are protected against bumping as a standard feature and are available with certified drill and pick protection elements as an option.



### **Conventional locking systems**

Conventional locking systems work with vertically arranged tumbler rows. Thanks to the large number of variations of indentation depths you can use conventional systems almost everywhere – also in complex master key systems. All locking cylinders offer a standard anti-bump feature and are available optionally as registered locking cylinders with security card.

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# Performance ranking

Mechanical and mechatronic locking systems



## The performance ranking

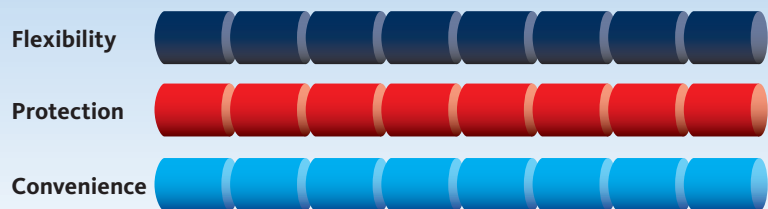
Mechanical and mechatronic locking systems are suitable for many applications. **Convenience, protection and flexibility** requirements are met differently, depending on the locking system. The performance ranking offers a quick overview and provides **better orientation** in the product offering.

-  **Flexibility:**  
Programmable, expandable and ready for multiple key systems
-  **Protection:**  
Drill protection, impact protection and copy protection
-  **Convenience:**  
Reversible key and operating convenience

## Mechatronic locking system SE



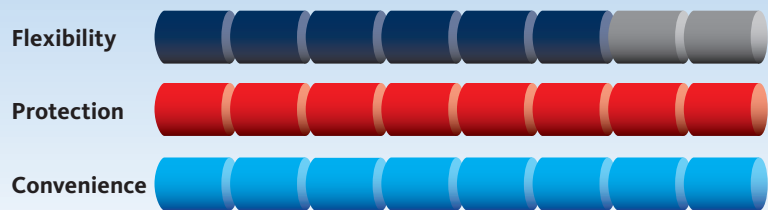
SE double knob cylinder



## Reversible key systems



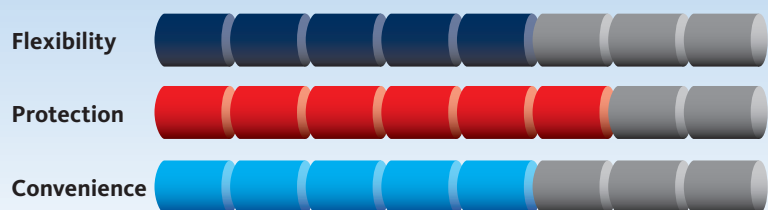
Reversible key system janus



## Conventional systems



Series 31/33 **detect3** locking system





**Mechatronic locking cylinder janus SE**

**Flexibility**



**Protection**



**Convenience**



**livius**

**Reversible key system livius Series 50/51**

**Flexibility**



**Protection**



**Convenience**



**PZ 88 locking system**

**Flexibility**



**Protection**



**Convenience**



# Performance features

## Product qualities



	Mechatronic locking systems		Reversible key systems	
	SE double knob cylinder	janus SE cylinder	janus	livius series 50/51
<b>Locking methods</b>				
Master key systems	■	■	■	■
Keyed-alike cylinders	■	■	■	■
Programmable	■	■		
Registered key biting	■		■	■
<b>Functions</b>				
Standard function		■	■	■
Emergency function			■	■
Free-wheel function	■		■	■
Short-term release	■	■		
Permanent release	■			
Daytime mode	■			
<b>Standard design</b>				
Cylinder body, brass nickel-plated			■	■
Cylinder body, matt nickel-plated	■	■		
Anti-bump feature		■	■	■
Modularly changeable			■	
Copy protection	■	■	■	■
<b>Optional features</b>				
Saltwater-protected			■	■
System SL				■
Drill protection	■	■	■	■
Drill and picking protection	■	■	■	■
SKG version	■	■	■	■
VdS version	■	■	■	
Cylinder with spline shaft				
<b>Performance features</b>				
Patent protection			■	■
Compatible with janus SE cylinders	■	■	■	
Can be ordered through MKS	■	■	■	■
Key combinable with SE transponder	■	■	■	■
Event memory	■	■		
Management via KeyManager	■	■	■	■
Programming via KeyManager	■	■		
Online-enabled	■	■		
Number of locking cycles per standard battery	Up to 350,000	Up to 600,000		
Multi-level battery warning	■	■		

**Conventional locking systems**

	detect3 series 31/33	PZ 88
	■	
	■	■
	■	
	■	■
	■	■
	■	
	■	■
	■	■
	■	
	■	
	■	■
	■	
	■	
	■	
	■	
	■	



Certified in accordance with DIN EN 1303 – Building hardware – Locking cylinders for locks - Requirements and test methods



Certified in accordance with DIN 18252 – Profile cylinder for door locks – Terms, dimensions, requirements, marking



CE marking



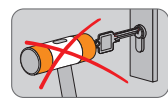
Suitable for use in fire protection doors



Available in SKG version



Available in VdS version



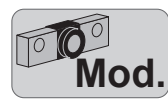
Anti-bump feature



Patent protection



Suitable for use in master key systems



Modular cylinder design



Offline system variant



Online system variant



Data on Transponder system variant



# Mechatronic locking system SE

You can save yourself the energy



DIN EN 1303

DIN 18252



## SE knob cylinder

Combining the well-known mechanical qualities of a BKS system with high-performance electronics, the SE knob cylinder is suitable for many different applications within a project. Because SE knob cylinders are available in many different versions, you can implement a convenient and secure access solution for every situation.

### Environmentally friendly energy consumption

The highly energy-efficient systems allow for a very high number of locking cycles per standard battery used. This is a decisive criterion for battery-operated systems, in the long run, since this keeps operating costs very low.

### Flexible and perfectly combinable

Electronic SE knob cylinders **can be combined with every mechanical master key system from BKS**. This is why they are ideally suited for retrofitting.

### SE double knob panic cylinder

Some panic locks place very high demands on a knob cylinder. The SE double knob panic cylinder is designed precisely for such cases.

### SE half knob cylinder

With the SE half knob cylinder, you can electronically secure key switches, escape door terminals or elevators for optimal access control. To provide for installation in different situations, the knob can optionally be removed.





SE transponder



SE wall reader



janus SE cylinder

#### Technical data – SE mechatronic locking system

Order length, outside	27, 31, 35 ... ascending in 5 mm steps up to 80 mm
Order length, 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 actions or 10 years standby janus SE cylinder: up to 600,000 locking actions or 10 years standby
Protection class	IP 54 outside, optionally IP 65 (SE double knob cylinder)
Radio control (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)

#### SE transponder

Regardless of whether you use mechanical, mechatronic or electronic locking cylinders – with an SE transponder from BKS you can lock every type of cylinder of any master key system. The clip-on transponder is suitable for the keys of all current BKS master key systems. Furthermore, SE transponders feature a multi-function LED enabling you to conveniently verify the actual access authorisation on a cylinder or its battery status.

#### SE cylinders offer this standard:

- High energy-efficiency
- Large memory capacity for event storage
- Multilevel low-battery alarm
- Freely adjustable coupling duration
- Contactless programming with programming device or via radio control
- Upgradable firmware
- Electronics securely accommodated in the interior
- Backup module for external power supply available
- Compatible with mechanical master key systems – ideal for upgrades
- Management/programming via KeyManager

#### SE access points

Besides the SE double knob cylinder, the mechatronic locking system SE includes other sensible and useful access points, such as the SE wall reader, the SE lock and the janus SE cylinder. In this way, the control of automated doors can be integrated without difficulty and areas threatened by vandalism can be secured. The SE transponder clip can be employed throughout the building due to its many options for use as a universal medium for access and control.

#### SE cylinders offer this optionally:

- 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, if desired with removable knob
- Weather-proof version IP 65

# Reversible key system janus

High flexibility and future viability



janus

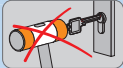
DIN 18252

DIN EN 1303

SKG

VdS

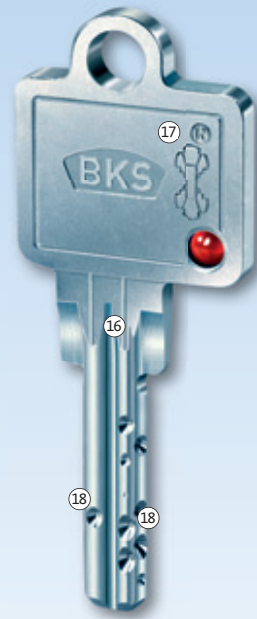
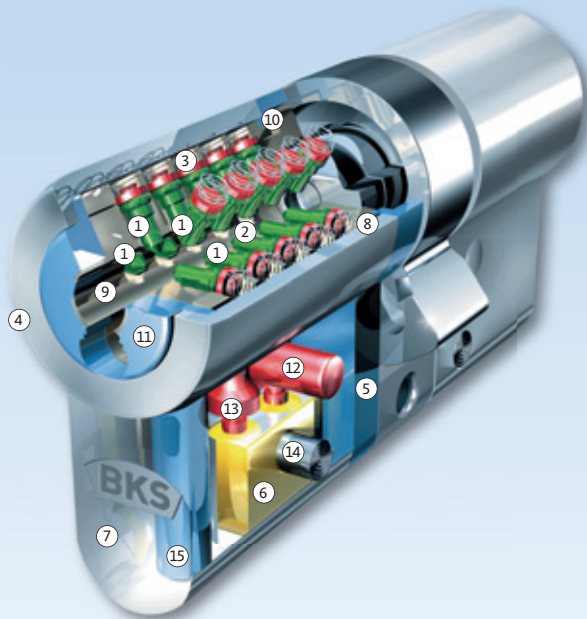
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Pat. 2025

HS

Mod.



- ① Tumbler rows 1, 2, 3 and 4
- ② Bronze tumbler pins
- ③ Brass drive pins with springs
- ④ Profile system
- ⑤ Extension

- ⑥ Steel tie
- ⑦ Outer housing
- ⑧ Body tube
- ⑨ Plug
- ⑩ Plug collar

- ⑪ Plug protection disc
- ⑫ Body security pin
- ⑬ Hardened steel security pins
- ⑭ Spiral locking pin
- ⑮ Drill protection pin (optional)

- ⑯ Key shank
- ⑰ Key bow
- ⑱ Key biting

## Reversible key system janus

This is how you meet demanding locking requirements: The reversible key system janus with four tumbler pin rows for the utmost security and unrivaled locking convenience. The modular design allows flexible adaptation of the cylinder length to the particular installation conditions.

### BKS brand lock technology

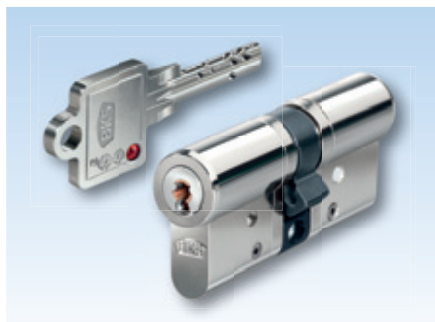
The reversible key system janus meets the highest demands with regard to security, functionality and design. Its distinctive feature is the key bow with the red ball.

### Well-planned fine mechanics

Four variably arranged tumbler rows protect the cylinder plug against tampering. The special key with drilling cavities provides for efficient mechanical copy protection. The modular cylinder design makes it possible to adapt the cylinder length to each particular installation situation. Through the use of functional pins, even complex hierarchies can be implemented in master key systems.

### Mechatronic janus SE cylinder

Based on our test-winning mechanical cylinder, the janus SE cylinder combines the trusted features of a mechanical cylinder with the convenience of an electronic cylinder. Provided with an additional electronic security feature, the well proven mechanical locking system janus "goes mechatronics". Hardly distinguishable from a purely mechanical cylinder, the SE cylinder is suitable for use in areas where there is a risk of vandalism, for instance in schools. On the inside, the cylinder is protected by its robust rosette. Its remarkably energy-efficient functioning allows for very high cycle numbers per inserted standard battery – a decisive criterion where battery-operated systems are concerned.



Mechanical locking cylinder



Key with SE transponder clip



Mechatronic janus SE cylinder

#### Technical data – reversible key system janus

Order length (BL)	27, 31, 35 ... ascending in 5 mm steps up to 100 mm
Key bitting	Registered key bitting, master key system
Cylinder cam	Standard, special versions
Emergency function	On both sides from BL 31/31, on one side from BL 27/31
Free-wheel function 'FZG'	Optional, from BL 31/31
Drill protection (optional for master key systems)	BZWA, BZWB
Drill and picking protection (optional)	BZWC, BZWD
DIN 18252	Grade 80, optionally grade 82 (with BZWC)
VdS variant	Yes
SKG variant	Yes

(janus SE refer to page 8/9)

#### The reversible key system janus offers:

- Tested according to EN 1303 and DIN 18252
- With bumping protection standard
- Profile cylinder with four tumbler pin rows
- "Sandwich design" for variable cylinder lengths
- Optionally with cylinder body cap made of chromium-nickel steel
- Keys: high-quality nickel silver
- Patent-protected key profiles only
- Faceplate screw: M5 x 80 mm, nickel-plated steel (optionally brass)
- Suitable for complex master key systems in the industrial sector
- Suitable for registered key bittings with security card in the private sector

#### The mechatronic janus SE cylinder offers:

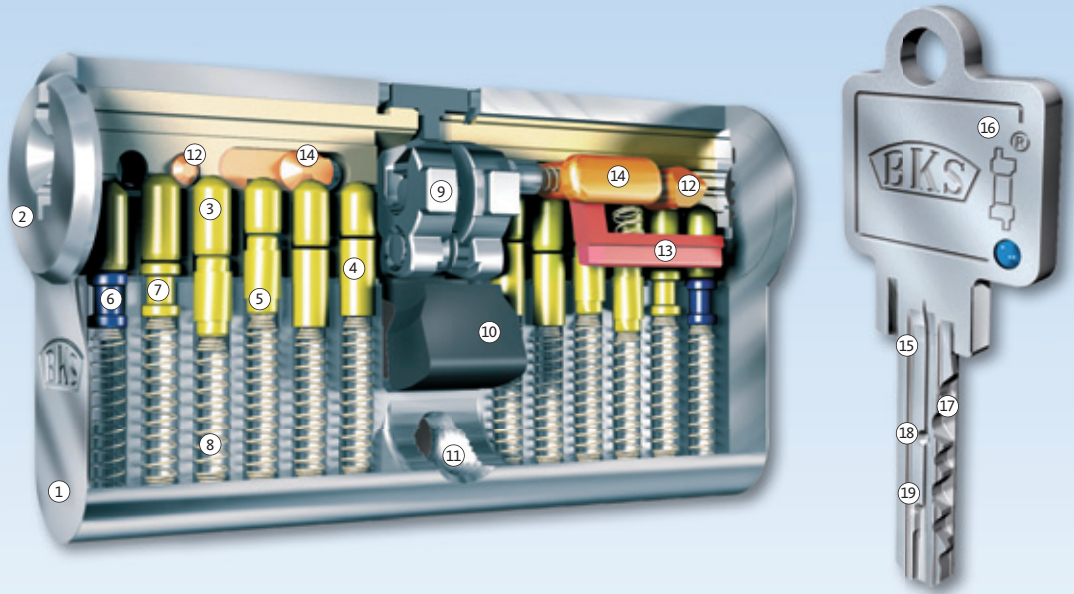
- Double security with mechanical and electronic security
- Battery life up to 600,000 locking cycles
- Combinable with existing janus master key systems (no key exchange required)
- Large memory capacity for event storage
- Multi-level battery warning
- Freely adjustable coupling duration
- Contactless programming with programming device or via radio control
- Firmware updates possible
- Electronics securely accommodated in the interior
- Ideally suited for vandalism risk areas
- Acoustic signalling

# Reversible key system livius Series 50/51

Modern technology



livius



- |  |  |                                   |                           |
|--|--|-----------------------------------|---------------------------|
| ① Body                                 | ⑥ Drive pin; hardened steel, mushroom-shaped | ⑪ Thread hole for fastening screw | ⑮ Key shank               |
| ② Plug                                 | ⑦ Brass mushroom drive pin                   | ⑫ Blocking pin                    | ⑯ Key bow                 |
| ③ Tumbler pin; bronze                  | ⑧ Drive springs                              | ⑬ Locking bar                     | ⑰ Key bitting             |
| ④ Drive pin; cylindrical; brass        | ⑨ Coupling                                   | ⑭ Slider                          | ⑱ Hollow for blocking pin |
| ⑤ Drive pin; cylindrical offset; brass | ⑩ Cylinder cam                               |                                   | ⑲ Channel for slider      |

## Reversible key system livius

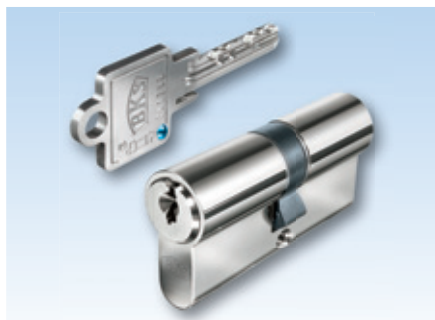
The reversible key system livius offers high-quality reversible key technology for registered key applications with security card in small and medium-sized master key systems in the private or industrial sector.

### Comfort and functionality

The locking system has 6 separate pin tumblers standard. The cylinders are suitable for a wide range of applications and are available in a variety of different functions. The key bow with the blue ball gives the system an attractive design. For master key and registered key systems, only protected key profiles are used. For doors with a particularly high risk of burglary, the robust reversible key system livius can be upgraded with a certified drill and pick protection.

### Rely on double security

The reversible key system livius optionally has a second, independently operating locking system. The locking cylinders thereby feature additional lateral locking elements. The related query mechanisms provide exceptionally high mechanical key duplication protection. By combining cylinders with and without locking bar in master key systems, it is possible to implement different security levels according to requirements. The reversible key system livius comprises all cylinder types that are relevant for use in master key systems and registered key applications with security card.



Mechanical locking cylinder



Cam cylinder for cupboards and flaps



Padlock for gates and containers

Technical data – reversible key system livius	
Order length (BL)	31, 35, 40 ... ascending in 5 mm steps up to 95 mm
Key bitting	Registered key bitting, master key system
Cylinder cam	Standard, special versions
Emergency function	On both sides from BL 31/31
Free-wheel function 'FZG'	Optional, from BL 35/35
Drill protection (optional)	BSKA, BSKB
Drill and picking protection (optional)	BZKB
DIN 18252	Grade 80, optionally grade 82 (with BZKB)
VdS variant	No
SKG variant	Yes

**The reversible key system livius offers standard:**

- Tested according to EN 1303 and DIN 18252
- With bumping protection standard
- 6-pin profile cylinder
- Patented profile series with hidden shaft indentations
- Cylinder body: nickel-plated brass, matt, polished or bronzed
- Keys: high-quality nickel silver
- Faceplate screw: M5 x 80 mm, nickel-plated steel (optionally brass)
- Key combinable with SE transponder

**The reversible key system livius offers optionally:**

- With additional spring-loaded slider, locking pin, and locking bar in the cylinder plug (system SL)
- Cylinder with and without slide lock (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
- Abrasion-resistant plugs
- Cylinder with protection against sea water

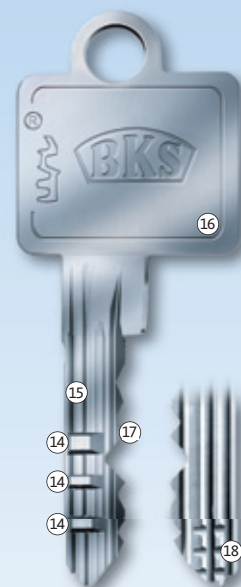
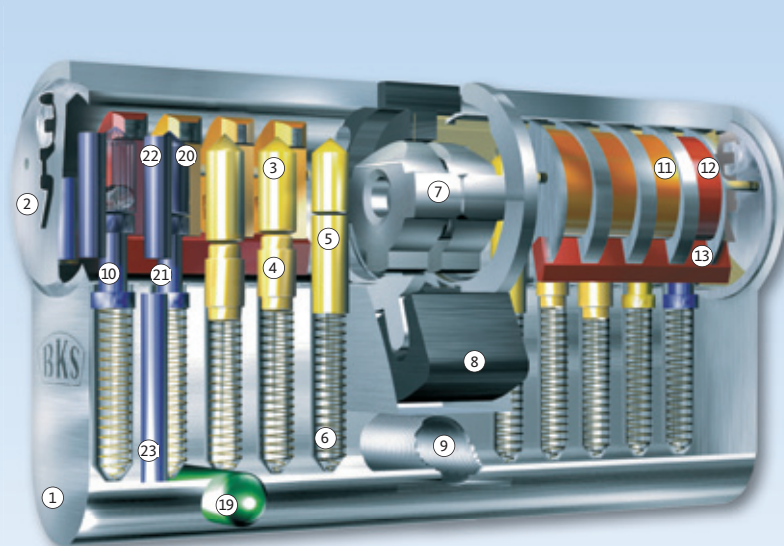
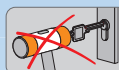


# Series 31/33 detect3 locking system

Proven capability



detect3



## Standard design

- ① Body
- ② Plug
- ③ Bronze tumbler pins
- ④ Drive pin; cylindrical offset, brass
- ⑤ Brass drive pin, cylindrical, brass
- ⑥ Drive springs
- ⑦ Coupling
- ⑧ Cylinder cam
- ⑨ Thread hole for fastening screw
- ⑩ 1<sup>st</sup> drive pin; hardened steel, mushroom-shaped

- ⑪ Variable rockers
- ⑫ Touch rocker
- ⑬ Locking bar
- ⑭ Contour milling
- ⑮ Key shank
- ⑯ Key bow
- ⑰ Key bitting
- ⑱ Linear tootthing

## Optional security features

- ⑲ Body security pin
- ⑳ 1<sup>st</sup> and 2<sup>nd</sup> hardened steel tumbler pin
- ㉑ 2<sup>nd</sup> drive pin; hardened steel, mushroom-shaped
- ㉒ 3 hardened steel pins with drill and pick protection (plug)
- ㉓ 2 hardened steel anti-drill pins (body)

## detect3 locking system

Regardless of whether in the private or industrial sector – with the conventional detect3 locking system as standard system you are always on the safe side. With reliable and versatile-use locking cylinders for the entire range of applications.

### Comprehensive cylinder programme

The conventional locking system detect3 is the flexible solution if you want to implement registered key bittings and master key systems with high security requirements. Besides double cylinders and half cylinders, the comprehensive cylinder range comprises many additional cylinder types for use in master key systems. For example, cam cylinders with different rotational travels, switching cylinders, padlocks, rim cylinders for rim locks. The protected profile series ensures a high duplication security for cylinders in master key systems and registered key bittings. Keys and cylinders with additional mechanical duplication protection are available as an option.

### Safety requirements answered twice

The optional version of detect3 locking cylinders in the SL system offers the highest unlocking security. 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 related key. Depending on requirements, 5- or 6-pin versions are available. Cylinders with and without locking bar can be combined, which enables you to set up different security levels within one installation. All cylinders feature lock bumping protection standard and can be fitted with certified drill and pick protection elements as an option.



Mechanical locking cylinder



Rim cylinder for face-fixed additional locking devices



Double cylinder with disengageable thumbturn

### Technical data – locking system detect3

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
Key bitting	Registered key bitting, master key system
Cylinder cam	Standard, special versions
Emergency function	On both sides from BL 31/31, on one side from BL 27/31
Free-wheel function 'FZG'	Optional, from BL 31/31
Drill protection (optional)	BSKA (only without locking bar), BSKB
Drill and picking protection (optional)	BZKB
DIN 18252 / 5 pins	Grade 70, optionally grade 71 (with BZKB)
DIN 18252 / 6 pins	Grade 80, optionally grade 82 (with BZKB)
VdS variant	Yes
SKG variant	Yes

#### The conventional locking system detect3 offers standard:

- Tested according to EN 1303 and DIN 18252
- With 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 (optionally brass)
- Key combinable with SE transponder

#### The conventional locking system detect3 offers optionally:

- Additional locking bar and four spring-loaded locking elements in the cylinder plug (system SL)
- Cylinder with and without locking bar (system SL) can be combined in master key systems
- Lateral indentation on the key for high copy protection
- 6-pin profile cylinder
- Abrasion-resistant plugs
- Cylinder with protection against sea water



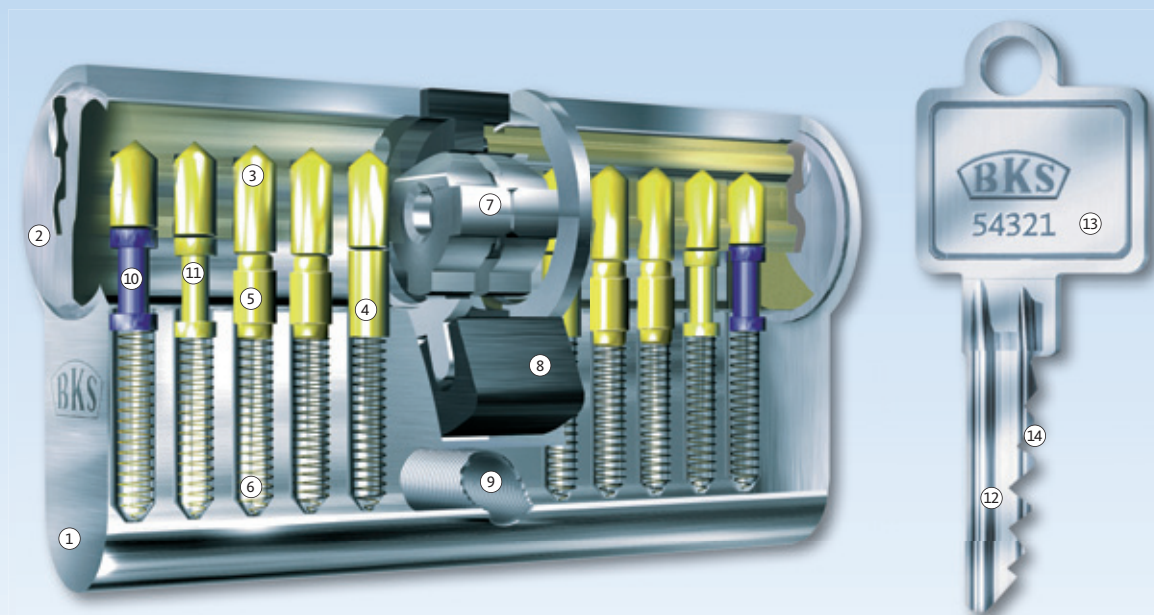
# PZ 88 locking system

The standard



DIN 18252

DIN EN 1303



- ① Body
- ② Plug
- ③ Bronze tumbler pins
- ④ Brass drive pin, cylindrical, brass
- ⑤ Drive pin; cylindrical offset; brass
- ⑥ Drive springs
- ⑦ Coupling
- ⑧ Cylinder cam
- ⑨ Thread hole for fastening screw
- ⑩ Drive pin; hardened steel, mushroom-shaped
- ⑪ Brass mushroom drive pin
- ⑫ Key shank
- ⑬ Key bow
- ⑭ Key bitting

## PZ 88 locking system

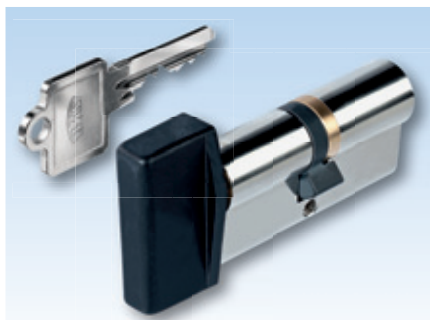
The PZ 88 profile cylinder is our standard product within the mechanical cylinder range. The cylinder series offers the most common cylinder types for single-key or keyed-alike locking without security card.

### The basis for cost-effective security

Apart from double cylinders, half cylinders and cylinders with thumbturn, the PZ 88 series comprises padlocks and rim locks in the BKS normal profile. Locking cylinders of this series are used for single-key or keyed-alike locking without security card. They come with optional emergency function on one or on both sides.



PZ 88 profile cylinder



Double cylinder with turn



Profile half cylinder

#### Technical data – PZ 88 locking system

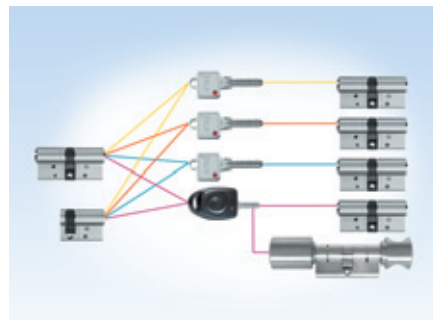
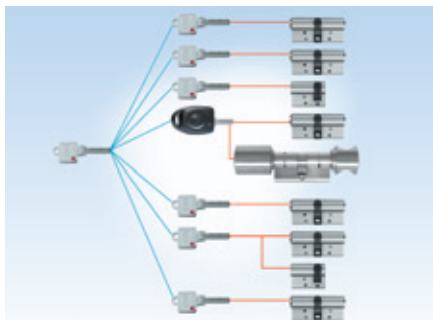
Order length (BL)	27, 31, 35 ... ascending in 5 mm steps up to 80 mm
Key bitting	Normal locking, keyed alike locking
Cylinder cam	Standard
Emergency function (optional)	On both sides from BL 31/31, on one side from BL 27/31
Free-wheel function 'FZG'	No
Drill protection (optional)	BSKA
DIN 18252	Grade 70
VdS variant	No
SKG variant	Yes

#### Features and benefits provided by the PZ 88 locking system:

- Tested according to EN 1303 and DIN 18252
- With 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

# Master key system software

Everything at a glance – management and programming



## BKS KeyManager

The demands on software solutions for management and programming of the locking cylinders and keys in master key systems have risen greatly with increased use of electronic and mechatronic locking systems as well as additional flexible access points, such as wall readers. The software does full justice to the trend of combining mechanical, mechatronic and electronic cylinders in one cost-effective overall system: all cylinders, whether electronic or mechanical, can be managed with one software. If purely mechanical systems are managed at first, the KeyManager can be adapted optimally to the respective needs, thanks to graduated software packages. The options in the KeyManager for addition of electronic and mechatronic locking cylinders to the master key system can be expanded without difficulty at any time.

## The BKS KeyManager offers all this:

- 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 of the 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 inquiry
- Networkable (client/server application)



## MKS MasterKeySystem

Online processing ensures error-free data transmission, reduced material planning expense, shortened procurement times and constant updating of the entire system, around the clock, 7 days a week. MKS is the internet-based planning and order platform, especially for master key systems. A number of useful functionalities make it easier to work out the entire master key system and then ensure trouble-free processing of your order. Together with the mobile security card reader, MKS offers unique advantages in extending existing systems and reordering keys and cylinders.

## Advanced cylinder and key reordering

The mobile security card reader is a full-featured replacement for the commonly used order slip imprinters and in addition offers decisive cost and time savings: It works faster, is mobile, works independently of the PC and also saves 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 the MKS.

### The MKS offers all this:

- Planning and ordering of master key systems with mechanical, mechatronic and electronic locking cylinders
- Extensions of existing systems
- Ordering of registered key bittings
- Reordering of keys and cylinders
- Key combination records for download
- Master key data system for use in the BKS KeyManager (version 3.0 and higher)
- Key identification
- Plausibility check

### The mobile security card reader offers all this:

- Reading of security cards for master key systems and registered key bittings
- Storage of the read-in data records
- Transfer of the data records to the MKS
- Costs for order slip procurement eliminated
- Costs for mailing eliminated



WINDOW TECHNOLOGY  
DOOR TECHNOLOGY  
AUTOMATIC ENTRANCE SYSTEMS  
BUILDING MANAGEMENT SYSTEMS

Gretsch-Unitas GmbH  
Baubeschlage  
Johann-Maus-Str. 3  
D-71254 Ditzingen  
Tel. + 49 (0) 71 56 3 01-0  
Fax + 49 (0) 71 56 3 01-77980

BKS GmbH  
Heidestr. 71  
D-42549 Velbert  
Tel. + 49 (0) 20 51 2 01-0  
Fax + 49 (0) 20 51 2 01-9733

[www.g-u.com](http://www.g-u.com)

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