



KABA[®]
MAUER

Safe & Vault Equipment

Safe Locks

Locks for Deposit Boxes & Lockers

Safe Components

Fittings

Imprint

Kaba Mauer GmbH

Frankenstraße 8-12
42579 Heiligenhaus
Germany

Phone +49 (0)2056/596 - 0

Fax +49 (0)2056/596 - 139

Internet www.kaba-mauer.de

Email info@kmh.kaba.com

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Contact

Sales Safe Locks + Accessories

Germany

Phone +49 (0)2056/596-120 or -122, Fax +49 (0)2056/596-320 or -322, Email vertrieb@kmh.kaba.com

Worldwide

Phone +49 (0)2056/596-123 or -135, Fax +49 (0)2056/596-323 or -335, Email sales@kmh.kaba.com

Sales Duplicate Keys

Germany/Worldwide

Phone +49 (0)2056/596-145, Fax +49 (0)2056/596-345, Email schluessel@kmh.kaba.com

Shipping

Germany

Phone +49 (0)2056/596-142, Fax +49 (0)2056/596-342, Email versand@kmh.kaba.com

Worldwide

Phone +49 (0)2056/596-132, Fax +49 (0)2056/596-332, Email shipping@kmh.kaba.com

Service

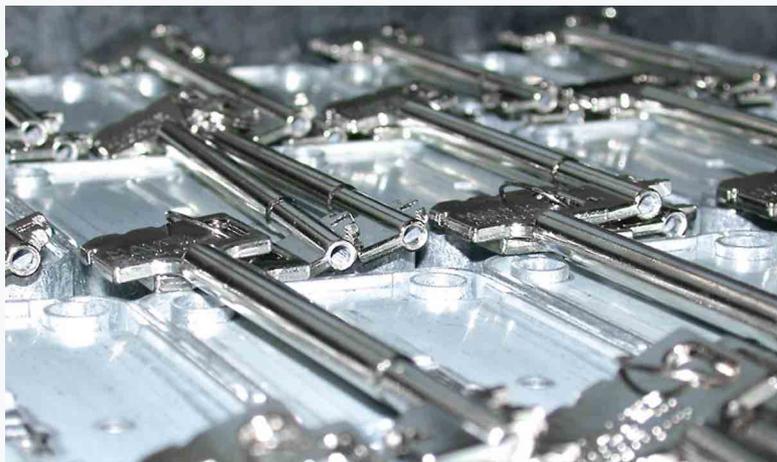
Phone +49 (0)2056/596-149, Fax +49 (0)2056/596-349, Email service@kmh.kaba.com

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Short profile

Companies and institutions throughout the world rely on Kaba Mauer. They know and appreciate the quality and wide range of our products and solutions.

Kaba Mauer has become one of the world's leading manufacturers of safe locks and components because, throughout our 140 years, we have married long experience in the field with the latest manufacturing technology and the most innovative of designs. The result has been the development of a range of products, all made in Germany, and unequalled in quality, design and price. Entrust the care of your safety to us!



Your tailored safety package with guarantee!

No matter whether your company makes safes, trades with locks, offers financial services, or operates as a retailer or a marketing chain - you will always find the right solution from Kaba Mauer.

You can choose from a unique range of products - from the lowest to the highest security level - in conformity with CEN, VdS or equivalent test standards.

It is you with all your individual and exacting requirements, who is the focal point of all our considerations. Suitable solutions are developed by our competent and experienced teams to match your needs. Professional product and project management can be taken for granted.

We rely on DIN EN ISO 9001 - warranting best quality products.

At home worldwide

Combining tradition and innovation successfully is not easy to achieve. That we have succeeded is proven by the long history of our company since its foundation in 1864 and by the loyalty of our customers, who have come to rely on the quality of our products. Even if you are based far away from us: no problem, we are at home worldwide.

New commitment in Bad Berka

Since the re-unification of Germany, Bad Berka has proved to be an ideal, modern production site for our demanding range of products. The workforce is highly skilled, based on the former watch making industry in the vicinity. Production has been launched in 1993 using the latest state of the art technology in tool making, in the pressroom, the component production, the electronic components production as well as in the bolt work and lock assembly. Meanwhile, around 40 people are in charge of precise and innovative products of Kaba Mauer at this site.

With our heart and roots in Heiligenhaus

However, the heart of Kaba Mauer operations still lies in Heiligenhaus - the centre of Germany's lock industry. In our traditional corporate headquarters you will find approximately 70 people working not only in the development, administration and sales departments but also on the shop floor where production is run with great commitment and care. Highly motivated experts are in charge of the assembly and testing of the locks and also the production of keys, hinges and fittings.





Kaba Mauer within the Group

The Kaba Group, with about 5900 employees, is one of the world's foremost suppliers of Access Systems, Door Systems, Key Systems and Enterprise Data Collection Systems within the security products sector.

Driven by its unique „Total Access“ strategy, Kaba provides holistic solutions that address the customer's needs for security, organization, and convenience at all physical entrances and exits as well as for identification and enterprise data collection functionality.

The range of products comprises mechanical, mechatronic and electronic access and locking systems, keys and key coding systems, security and automatic doors, collection and interface systems for enterprise data collection as well as the versatile contactless identification medium Legic. Since going public and since the stock exchange listing in 1995, Kaba has experienced an above average growth in both sales and earnings. The group is today ideally positioned to pursue further growth thanks to its technological leadership and its successful expansion into over 60 countries, through both organic growth and acquisition.

Kaba Mauer belongs to the Access & Data Systems Europe Division within the Kaba Group of Companies.

Our philosophy: Total Access

You need to protect your buildings and facilities against unauthorised access. „Total Access“ offers an all-in-one solution from a single-source supplier. Issues of safety, organisational requirements and IT matters will be considered and solved in an optimum way.

„Total Access“ permits a combination of mechanic and mechatronic lock systems, automatic doors, gate and locking technologies, modern identification and data collection, as well as applications in terms of access control and time management. All modules of „Total Access“ are mutually compatible. They can either be integrated in an existing system or combined for a new one. Customized solutions are made that provide guaranteed protection of your assets.

Mechanical Locks

Mechanical locking systems can be utilised in line with EN 1300 up to Class C (see page 9). The number of the variations calculated from the number of different levers in the lock and cut-out sections in the key bit is a decisive security criterion. To comply with EN 1300 (VdS) the following variations are required for mechanical locking systems:

- Class A (1): 25,000 (80,000)
- Class B (2): 100,000 (200,000)
- Class C (3): 1,000,000 (1,000,000)

The number of theoretical variations amounts for instance in the case of the 70011 Primus C, a lock with 13 different levers and 6 cut-out sections, to approximately 13 thousand million.

6

Keys

The double-bitted key systems are a characteristic feature of the mechanical locks. They are offered in the materials die-cast, brass and high-strength brass as rigid, foldable or detachable keys. However, where a large number of locking cycles is involved, only brass or high-strength brass keys should be used.

Foldable or detachable keys are particularly suitable for safes with very thick doors, as these keys are easy to store. In the case of foldable keys it is possible to fold them up to approximately half their length. The key bit can be detached from the rest of the key in the case of the detachable keys and can thus be kept easily.

The key carrier systems offer an alternative where the door has a greater thickness. In addition to the functions of the keys these systems provide extra security because of their anti-manipulation protection. The carrier remains in the door without the detachable bit part on end after the lock has been operated and is retained via a mechanical construction by a secondary lock.

The double-bitted keys are not nickel plated until they have been cut. They thus have total surface protection.

The individual product descriptions show which key is available for use with which specific lock.

Key bows



- Mauer bow
- Oval bow
- Square bow

Key versions



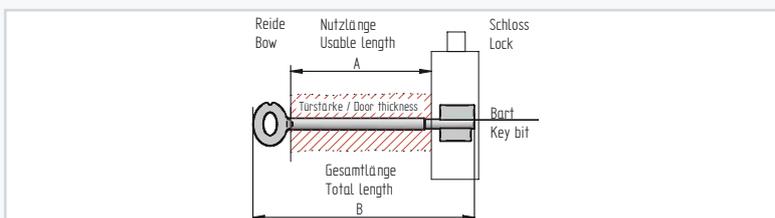
- Rigid key
- Foldable key
- Detachable key

Key carrier



- 86124 Servant K
- 94012 Servant R

Key length



- Total length and usable length of keys

Changeable locks

In the past the lock had to be replaced because of security considerations when a key was lost. The Kaba Mauer changeable locks ensure that security is maintained by converting the lock for use with a new pair of keys. This method saves both time and money.

Kaba Mauer supplies changeable locks in works or user lock versions. The works lock is a general service lock which offers the possibility of ordering and administering locks and keys independent of one another.

Change methods



- Change from the front with change activator
- Change from the back with change activator
- Change from the back with slide

In addition to this manufacturers of safes can minimise the risk of loss and damage with the works lock by not carrying out the change until shortly before handing over the safe to the respective customer.

Installation Positions

Locks

Kaba Mauer products may only be fitted in compliance with the installation positions stipulated in the product descriptions.

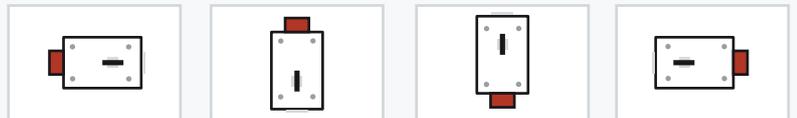
The installation position differentiates between “left hand doors” and “right hand doors”.

Definition safe doors (exterior view safe)



- Left hand and right hand doors

Position lock bolt (exterior view safe)



- Bolt left
- Bolt up
- Bolt down
- Bolt right

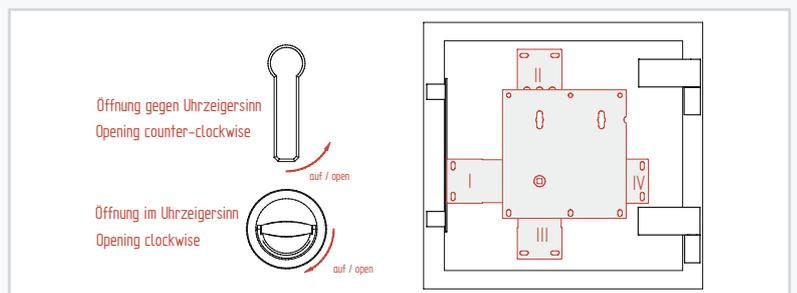
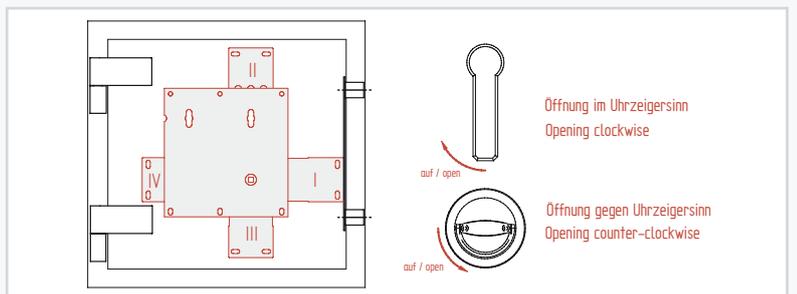
Bolt works

Bolt works can be installed in left or right hand safes.

In case of right or left bolt works the distance to the base plate of the band shaft (IV) or locking shaft (I) is identical.

The standard opening direction in a right hand safe with a lever handle is “counter-clockwise”. However, if the safe is fitted with a hinged handle we would recommend the optional “clockwise” opening direction.

Definition bolt works (exterior view safe)



- Bolt work left
- Bolt work right

Electronic Locks

Electronic locking systems possess a wide range of functions and the same security level as mechanical locks. Depending on the model they can, for instance, make it possible for banks, branch operators and firms specialising in the transportation of valuables to reconstruct all the transactions undertaken at the safe or ATM. The recording of the opening procedures can also prove beneficial, as can the possibility of establishing user profiles or time restrictions on usage. This precludes complicated administrative procedures and thus the costly key administration procedures.

Kaba's electronic locks open up a world of new security options with the aim of increasing security and efficiency.

Security and functional criteria for the selection of electronic locks

Key bolt systems

Mechanical bolt systems are operated manually via a spindle during the opening or closing of the lock. As opposed to this motorised bolt systems enable automatic opening and closing of the lock. They thus provide maximum operational and security facilitation at bolt strengths of up to 60 N.

Power supply

Depending on the product the electronic lock is supplied with power via the power supply system, by batteries or via a generator (independent of the power supply system, without batteries). Irrespective of the power source the power consumption for all Kaba electronic locks is very low.

Redundancy

In the case of extremely high security requirements the dual provision of failure critical component parts is advantageous. For this purpose the Paxos® compact lock is fitted with complete system duality. On a fault being detected the lock switches over automatically to the redundant system part. As opposed to this the lock Code-Combi B has a mechanical lock with double-bitted keys in order to guarantee continual availability.

Single code systems

In single code systems the security control unit allocates a one time combination code to the user with which he/she can open a specific lock on one single occasion. This solution thus provides maximum reconstruction of events combined with maximum user friendly security without the need for complex code administration, requiring only minimal administrative work.

Programming via networks

In the past if a lock configuration had to be altered at several locations, this modification was carried out individually on every lock by a person in charge at the location. Programming via a network means that the person in charge of security is able to alter the configuration of all the locks by remote access control from a central location at any time. Time and cost intensive programming on site is thus no longer required.

Time management

Time functions provide the possibility of defining individual access or restriction times for example time delay, blocking during certain weekdays or holidays.

Alarm integration

Various system solutions are available for the integration of electronic locks into alarm systems. For instance there is the option of the lock relaying a silent alarm in the case of its being under threat, the lock is blocked in the event of the alarm system being activated or the alarm system can be activated or deactivated via the lock.

Spying – safety precautions

LCD constructions with a restricted visual angle are used where the codes are to be entered without being seen by an unauthorised party. The dial knob input unit of the Paxos® compact lock provides further protection against espionage. By turning the knob a random pair of digits is altered in the display to the code part the user wants. By pressing the knob the number is confirmed as a component part of the code and the next pair of digits generated.

Depending on the respective evaluation of the security and functional criteria selected, you can choose the lock appropriate to your specific requirement profile. Please see the individual product descriptions to determine what functions are available in respect of any particular lock.

CEN/VdS - Safe and Lock Classes

Burglary Resistance Grade as per EN 1143-1 as per VdS 2450	Lock Configuration as per ENV 1300		Lock Configuration as per VdS 2396	
	Number of Locks	Lock Class	Number of Locks	Lock Class
0	1	A	1	1
I	1	A	1	1
II	1	A	1	1
III	1	B	1	2
IV	2	B	2	2
V	2	B	2	2
VI	2	C	2	3
VII	2	C	2	3
VIII	2	C	2	3
IX	2	C	2	3
X	2	C	2	3
XI	2 (3)	D (C)	2 (3)	4 (3)
XII	2 (3)	D (C)	2 (3)	4 (3)
XIII	2	D	2	4

Order Advice

The products in this catalogue are identified by different numbers or codes. When ordering please quote the specified order code and the optional code or the order number for the product you wish to have. The desired number of keys must be additionally entered in the option code "keys". Please note that accessories have to be ordered separately and are also delivered separately (unfitted).

Order Code : Designation for products in the standard version

Option Code : Designation for additional options

Order Number : Designation for accessories

Example:

Should you wish to order lock **President A** from us with a **key pin projecting 9 mm** and **2 die-cast keys, 120 mm** as well as a **mounting plate**, you would enter the following numbers or codes marked in red:

71111 : Order Code **President A**
SDV : Option code **Key pin projecting 9 mm**
2 DSD120 : Option code **2 units double-bitted keys, die-cast, 120 mm, Mauer bow**

From our accessories program:

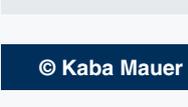
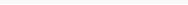
3 118 000 300 : Order number **Mounting plate, 2 mm thick, with 4 M5 threaded bushings, screws and securing rings**



Safe Locks: Mechanical Key Locks

Our double-bitted key system for safe locks differentiates itself by an established and reliable technology. It has been tried and tested for all types of resistance up to class XII.

Overview		Order code	P
	Primus C EN 1300 C, ECB-S, VdS Cl.3, GOST Cl.C, IMP Cl.C 14 levers, standard footprint, dead bolt	70011	12
	Variator B EN 1300 B, ECB-S, VdS Cl.2, CNPP a2p(E) Niv.B, GOST Cl.C, IMP Cl.B 11 levers, standard footprint, changeable, dead bolt	70076	14
	Praetor B EN 1300 B, ECB-S, VdS Cl.2, CNPP a2p Niv.B, GOST Cl.C, IMP Cl.B	70079	16
	Praetor Without any approvals/certificates 11 levers, standard footprint, dead bolt	70087	16
	Variator A EN 1300 A, ECB-S, VdS Cl.1, CNPP a2p Niv.A, DNV, GOST Cl.B, IMP Cl.A, UL 437 8 levers, standard footprint, changeable, dead bolt	70091	18
	Convar F CNPP a2p Niv.B or DNV (NB: locks are available either with CNPP or DNV certification) 8 levers, changeable, flat bolt, 2-way closure	70094	20

	Overview	Order code	P
	<p>Convvar Flex</p> <p>8 levers, changeable, no change tool required, non key retaining, flat bolt</p>	70095	22
	<p>Convvar B</p> <p>CNPP a2p Niv.B or DNV (NB: locks are available either with CNPP or DNV certification)</p> <p>8 levers, changeable, dead bolt</p>	70096	24
	<p>Certus</p> <p>8 levers, latch bolt, lock opening by handle</p>	71044	26
	<p>President A</p> <p>EN 1300 A, ECB-S, CNPP a2p(E) Niv.A, VdS Cl.1, GOST Cl.B, IMP Cl.A, UL 437</p>	71111	28
	<p>President</p> <p>UL 437</p> <p>8 levers, standard footprint, dead bolt</p>	71113	28
	<p>Curator 100</p> <p>7 levers, dead bolt, 3-way closure, keyhole non concentric (opt.)</p>	72016	30
	<p>Curator 80</p> <p>For profile cylinder, dead bolt, 3-way closure (opt.), double-bitted locking (opt.)</p>	72081	32
	<p>Tricontus A</p> <p>EN 1300 A, ECB-S, VdS Cl.1, GOST Cl.A</p>	73042	34
	<p>Tricontus</p> <p>Without any approvals/certificates</p> <p>8 levers, triple bolt</p>	73043	34
	<p>Vary</p>	73071	36
	<p>Vary Flex</p> <p>8 levers, changeable, dead bolt</p>	73073	36
	<p>Centurio A</p> <p>EN 1300 A, ECB-S, VdS Cl.1, GOST Cl.A, IMP Cl.A</p>	74041	38
	<p>Centurio</p> <p>Without any approvals/certificates</p> <p>8 levers, flat bolt</p>	74043	38
	<p>Centurio A Plus</p> <p>EN 1300 A, ECB-S, VdS Cl.1, GOST Cl.A, IMP Cl.A</p>	74046	40
	<p>Centurio Plus</p> <p>Without any approvals/certificates</p> <p>8 levers, flat bolt, 3-way closure</p>	74047	40
	<p>Arator</p> <p>VdS Cl.1 for use in safe deposit units</p> <p>7 levers, dead bolt, 2-way closure (opt.)</p>	78091	42

70011 Primus C

Lock with dead bolt for safes CEN VI-XII.
Approx. 13 billion theoretical variations.
Standard footprint.

We guarantee that every lock is absolutely unique due to the high number of variations available.

Key carriers 86124 Servant K and 94012 Servant R provide further key variations on the standard keys.



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Basic Features

Lock

Primus C - standard

Approvals/Certificates

EN 1300 C, ECB-S, VdS class 3, GOST class C, IMP class C

Specifications

14 levers, brass
Key retained when in open position
Die-cast lock case and bolt, surface treated
Bolt with 2 M4 threads, throw 12 mm
Prepared for bolt extension to the front
Weight approx. 770 g

Admissible mounting positions

Right hand lock, opening clockwise



Order code

70011

Options, Accessories & Keys

Options

Bolt extension to the back

Accessories

Bolt extension to the front, incl. fixing screw
Lock fixing screw: cheese head screw galvanised, DIN 84 - BSW ¼" x 39 mm - 4.8, securing ring
Leather pouch for detachable bit part
Key carrier Servant K
Key carrier set Servant R

Option code

RVH

Order number

3 118 000 420
3 118 000 000
1 408 999 900
see 86124
see 94012

Keys

Material	Length, Ø stem [mm]	Usable length [mm]	Key bow
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User double-bitted keys, nickel-plated

High-strength brass	160, Ø 5.6/5.8/7	105	Oval
High-strength brass	100-360, Ø 5.6/5.8/7	45-305	Oval

User double-bitted keys with foldable mechanism, nickel-plated

High-strength brass	130-360, Ø 5.6/5.8/7	65-305	Oval
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User double-bitted keys with detachable mechanism, nickel-plated

High-strength brass	130-360, Ø 5.6/5.8/7	65-305	Oval
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Detachable bit part, nickel-plated

(only for use in conjunction with 86124 Servant K or 94012 Servant R)

High-strength brass	71, Ø 5.6/5.8/7	-	-
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Option code

DSS160

DSSxxx

DGSxxx

DESxxx

DUS071

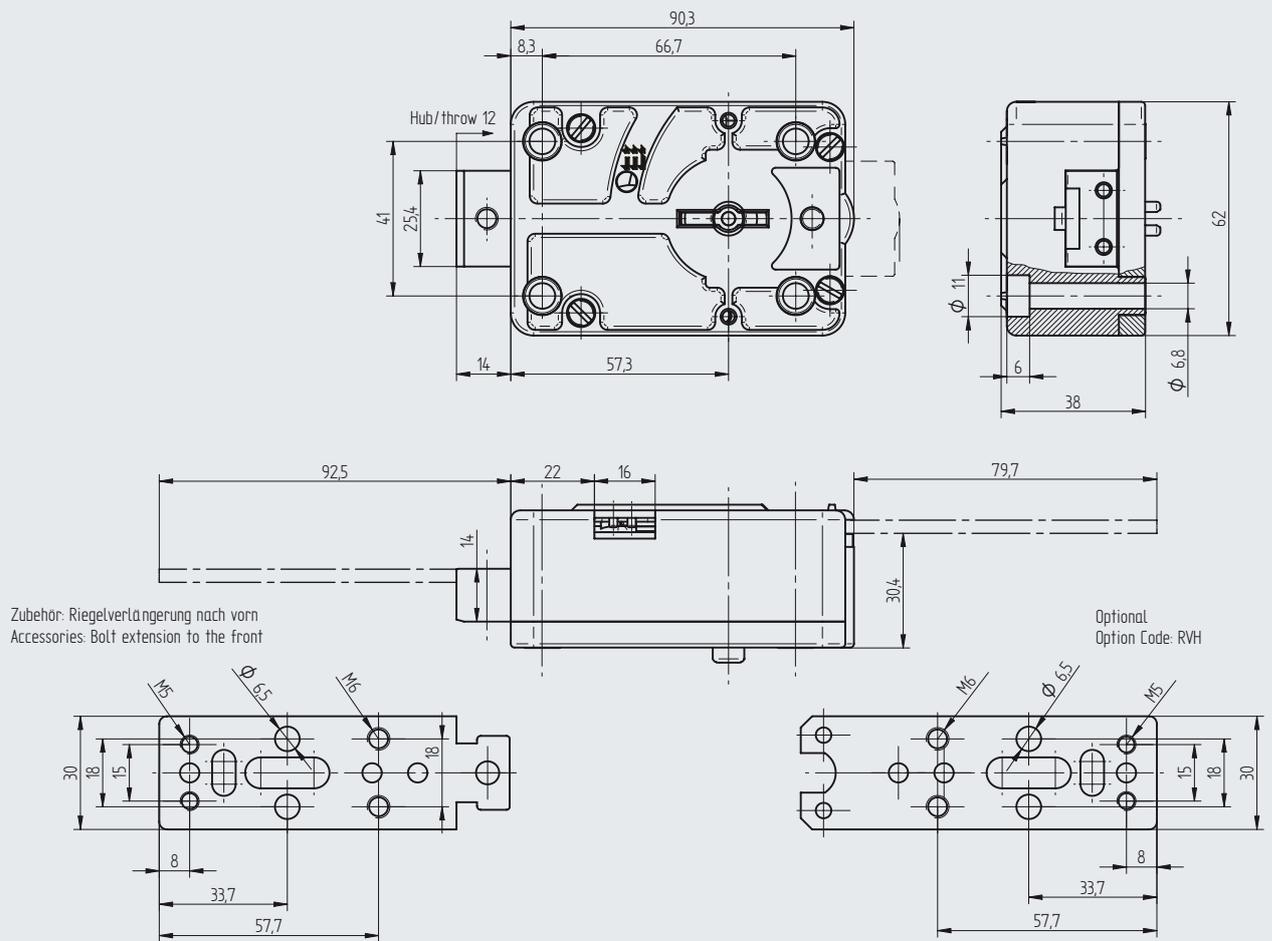
70011 Primus C



-  Lock and keys with oval bow
-  Detachable bit part with 94012 Servant R
-  Detachable bit part with 86124 Servant K



Scale 1:2



70076 Variator B

Changeable lock with dead bolt for safes CEN III-V.
Approx. 60 million theoretical variations.
Standard footprint.

User-friendly change from the front utilising a change activator i.e. without having to dismantle the door covering or the openings in the door interior.
Change can however, also be initiated via a slide unit at the back of the lock.

The lock can be supplied in user or works locking mode.



14

Basic Features

Lock
Variator B - standard

Approvals/Certificates

EN 1300 B, ECB-S, VdS class 2, CNPP a2p(E) Niveau B, GOST class C, IMP class B

Specifications

Changeable lock
11 levers, electrolytic galvanised steel
Key retained when in open position
Die-cast lock case and bolt
Bolt with 2 M4 threads, throw 12 mm
Prepared for bolt extension to the front
Weight approx. 530 g

Admissible mounting positions

Right hand lock, opening clockwise



Options & Accessories

Options

Microswitch for bolt monitoring (two-way contact)
Lock case and bolt surface treated
Supplied in works locking mode
Bolt extension to the back
Left hand lock, opening counter-clockwise



Accessories

Bolt extension to the front, incl. fixing screw
Lock fixing screw: cheese head screw galvanised, DIN 84 - BSW 1/4" x 36 mm - 4.8, securing ring
Leather pouch for detachable bit part
Key carrier Servant K

Order code
70076

Option code
RSK
SRO
AWS
RVH
SLG

Order number
3 118 000 420
3 118 000 010
1 408 999 900
[see 86124](#)

Works keys and change activators, nickel-plated

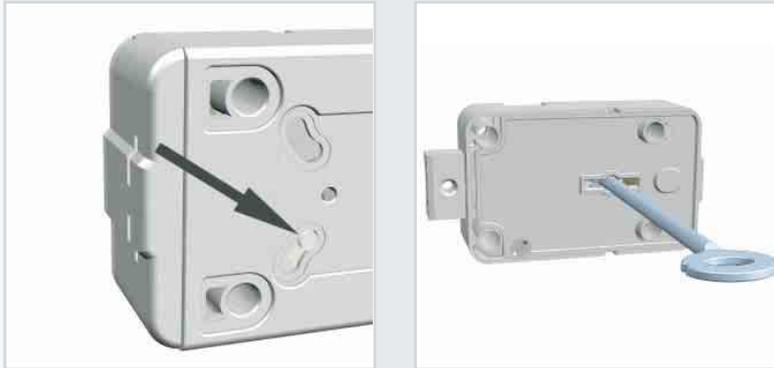
Material	Length [mm]	Usable length [mm]	Key bow
Brass	90	40	Oval
Brass	135	85	Oval
High-strength brass	150	100	Oval
High-strength brass	80-360	30-310	Oval

Order number
Works keys

Order number
Change activators

-	70090S0070
-	70090S0055
70075W0001	70090S0038
70075Wxxxx	70090Sxxxx

70076 Variator B

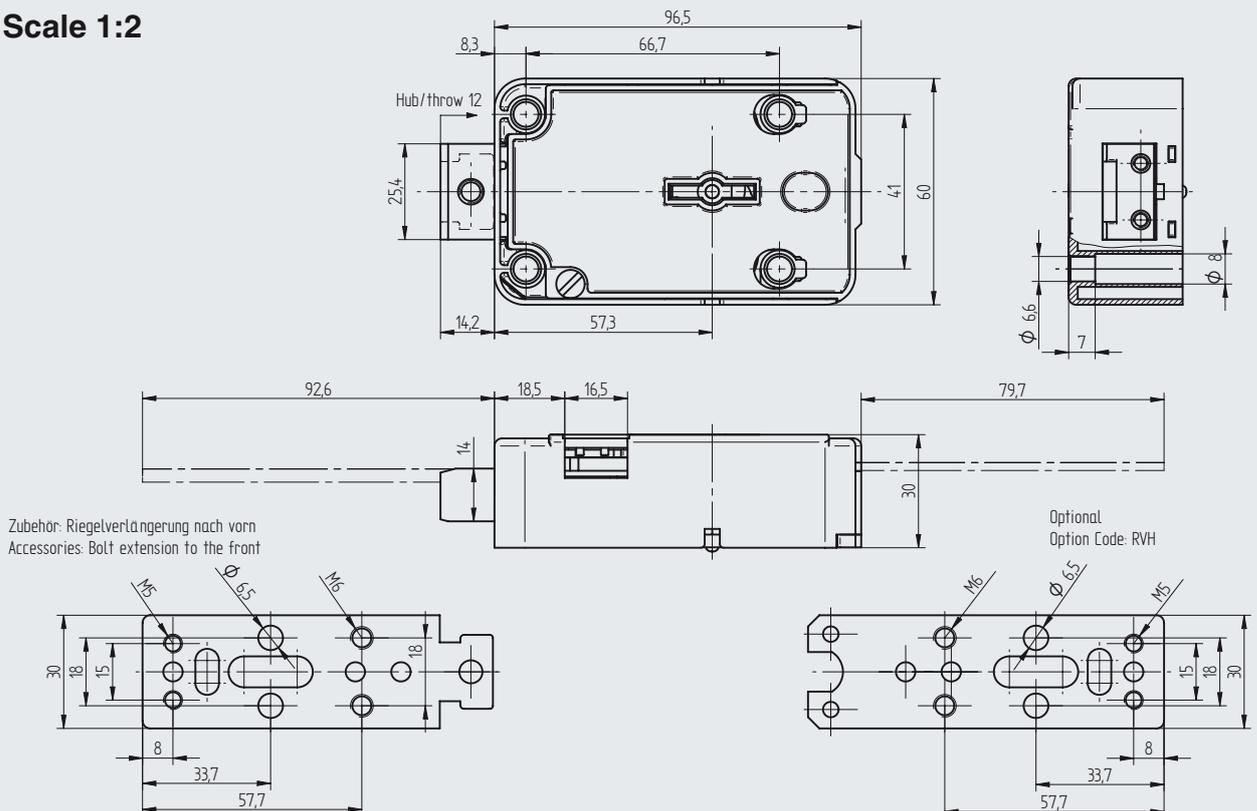


-  Lock and keys with Mauer bow
-  Change initiation from the back
-  Change initiation from the front

Keys

Keys Material	Length, Ø stem [mm]	Usable length [mm]	Key bow	Option code
User double-bitted keys, nickel-plated				
Die-cast	120, Ø 6/7	70	Mauer	DSD120
Die-cast	150, Ø 6/7	100	Mauer	DSD150
Die-cast	164, Ø 6/7	114	Mauer	DSD164
High-strength brass	150, Ø 5.9/7	100	Oval	DSS150
High-strength brass	80-360, Ø 5.9/7	30-310	Oval	DSSxxx
User double-bitted keys with foldable mechanism, nickel-plated				
High-strength brass	120-360, Ø 5.9/7	70-310	Oval	DGSxxx
User double-bitted keys with detachable mechanism, nickel-plated				
High-strength brass	120-360, Ø 5.9/7	70-310	Oval	DESxxx
Detachable bit part, nickel-plated (only for use in conjunction with 86124 Servant K)				
High-strength brass	63, Ø 5.6/5.8/7	-	-	DUS063

Scale 1:2



70079 Praetor B 70087 Praetor

Lock with dead bolt for safes CEN III-V.
Approx. 60 million theoretical variations.
Standard footprint.

The 70087 Praetor lock is similar to the listed 70079 Praetor B lock, but offers additional options which exclude certification. For example “keyed alike” or “non key retaining” versions are available.



16

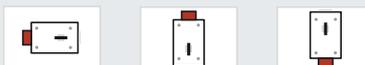
General Features

Specifications

11 levers, electrolytic galvanised steel
Key retained when in open position
Die-cast lock case and bolt
Bolt with 2 M4 threads, throw 12 mm
Prepared for bolt extension to the front
Weight approx. 530 g

Admissible mounting positions

Right hand lock, opening clockwise



Lock

Praetor B - standard

Approvals/Certificates

EN 1300 B, ECB-S, VdS class 2, CNPP a2p Niveau B, GOST class C, IMP class B

Order code

70079

Lock

Praetor - standard

Without any approvals/certificates, additional option available

Order code

70087

Options & Accessories

Options

Microswitch for bolt monitoring (two-way contact)
Lock case and bolt surface treated
Bolt extension to the back
Locks keyed alike
Not key retained when in open position, not suitable for access doors

70079 **70087**

✓ ✓
✓ ✓
✓ ✓
✓ ✓
✓ ✓

Left hand lock, opening counter-clockwise



✓ ✓

Option code

RSK
SRO
RVH
GSL
SAB

SLG

Accessories

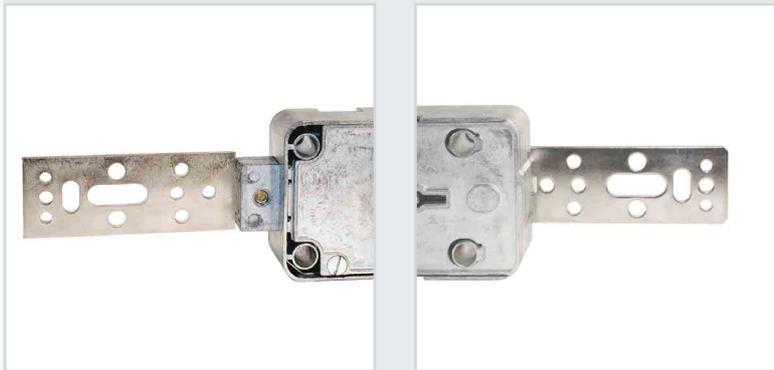
Bolt extension to the front, incl. fixing screw
Lock fixing screw: cheese head screw galvanised, DIN 84 - BSW ¼" x 36 mm - 4.8, securing ring
Leather pouch for detachable bit part
Key carrier Servant K

Order number

3 118 000 420
3 118 000 010
1 408 999 900
see 86124

70079 Praetor B

70087 Praetor



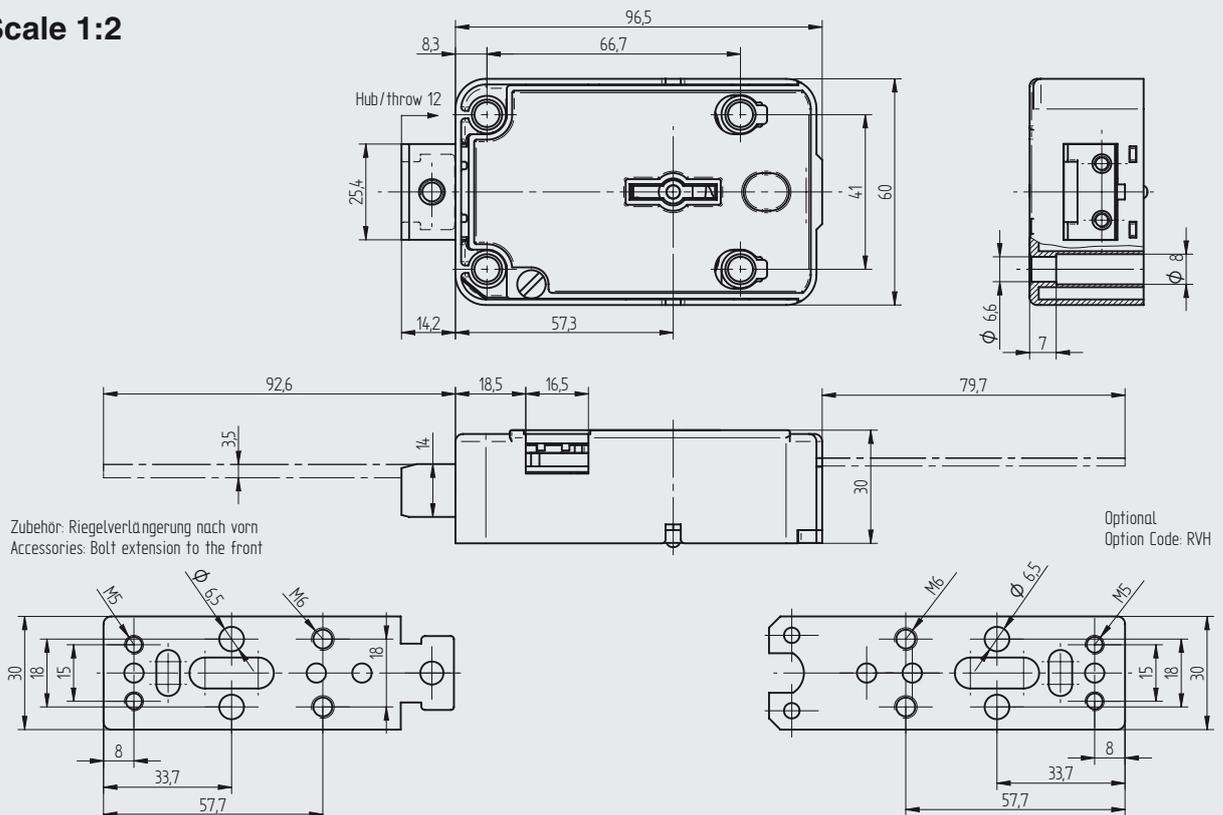
-  Lock and keys with oval bow
-  Bolt extension to the front
-  Bolt extension to the back

Keys

Keys

Material	Length, Ø stem [mm]	Usable length [mm]	Key bow	Option code
User double-bitted keys, nickel-plated				
Die-cast	120, Ø 6/7	70	Mauer	DSD120
Die-cast	150, Ø 6/7	100	Mauer	DSD150
Die-cast	164, Ø 6/7	114	Mauer	DSD164
High-strength brass	150, Ø 5.9/7	100	Oval	DSS150
High-strength brass	80-360, Ø 5.9/7	30-310	Oval	DSSxxx
User double-bitted keys with foldable mechanism, nickel-plated				
High-strength brass	120-360, Ø 5.9/7	70-310	Oval	DGSxxx
User double-bitted keys with detachable mechanism, nickel-plated				
High-strength brass	120-360, Ø 5.9/7	70-310	Oval	DESxxx
Detachable bit part, nickel-plated (only for use in conjunction with 86124 Servant K)				
High-strength brass	63, Ø 5.6/5.8/7	-	-	DUS063

Scale 1:2



70091 Variator A

Changeable lock with dead bolt for safes CEN 0-II.
Approx. 280,000 theoretical variations.
Standard footprint.

User-friendly change from the front utilising a change activator i.e. without having to dismantle the door covering or the openings in the door interior. Change can however, also be initiated via a slide unit at the back of the lock.

The lock can be supplied in user or works locking mode.



18

Basic Features

Lock
Variator A - standard

Approvals/Certificates

EN 1300 A, ECB-S, VdS class 1, CNPP a2p Niveau A, DNV, GOST class B, IMP class A, UL 437

Specifications

Changeable lock
8 levers, electrolytic galvanised steel
Key retained when in open position
Die-cast lock case and bolt, throw 12 mm
Weight approx. 460 g

Admissible mounting positions

Right hand lock, opening clockwise



Order code
70091

Options & Accessories

Options

Microswitch for bolt monitoring (two-way contact)
Bolt with 2 M4 threads
Key pin projecting 9 mm
Lock case and bolt surface treated
Supplied in works locking mode
Left hand lock, opening counter-clockwise



Option code
RSK
RGW2x4
SDV
SRO
AWS
SLG

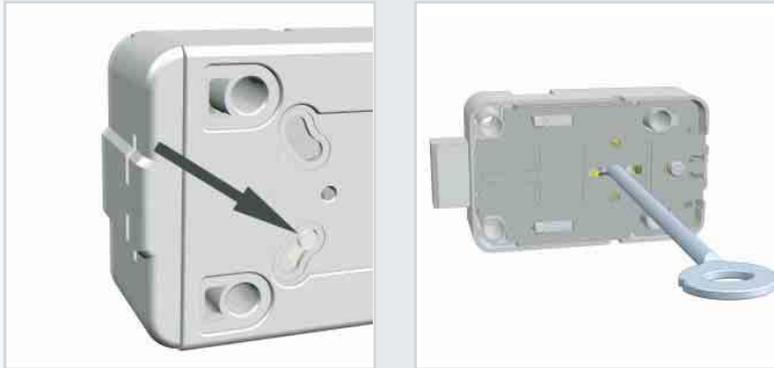
Accessories

Lock fixing screw: cheese head screw galvanised, DIN 84 - BSW ¼" x 32 mm - 4.8, securing ring
Mounting plate 2 mm thick with 4 M5 threaded bushings, screws and securing rings
Mounting plate 2 mm thick with manganese steel plate 1.5 mm thick, with 4 M5 threaded bushings, screws and securing rings

Order number
3 118 000 020
3 118 000 330
3 118 000 280

Works keys and change activators, nickel-plated				Order number	Order number
Material	Length [mm]	Usable length [mm]	Key bow	Works keys	Change activators
Brass	70	25	Oval	70090W0003	-
Brass	90	45	Oval	70090W0009	70090S0070
Brass	135	90	Oval	70090W0008	70090S0055
High-strength brass	135	90	Oval	70090W0005	-
High-strength brass	150	105	Oval	70090W0006	70090S0038
High-strength brass	80-360	35-315	Oval	70090Wxxxx	70090Sxxxx

70091 Variator A



-  Lock and keys with Mauer bow
-  Change initiation from the back
-  Change initiation from the front

Keys

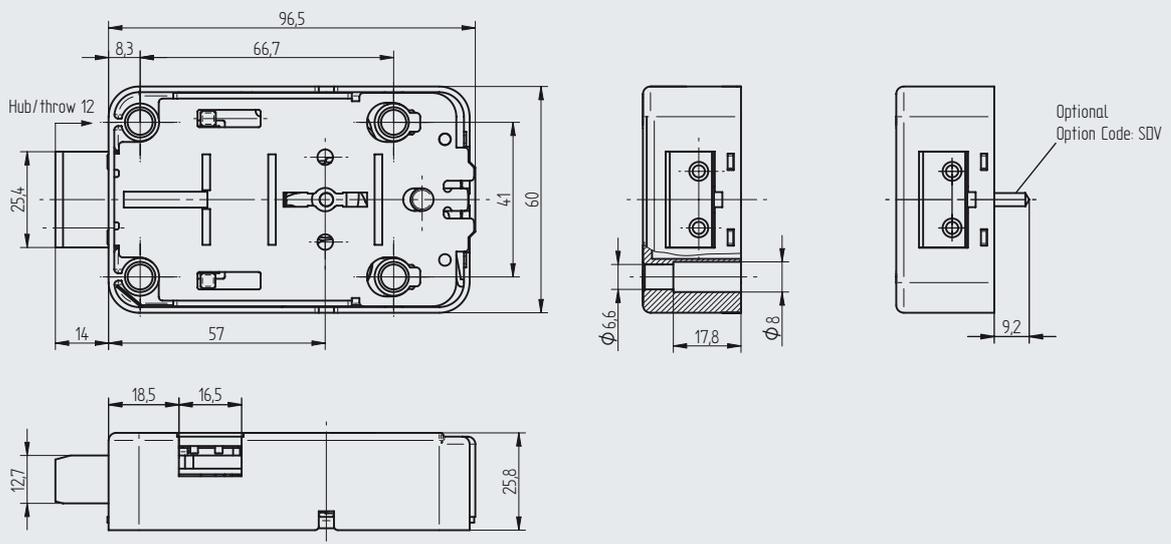
Keys

Material	Length, Ø stem [mm]	Usable length [mm]	Key bow
User double-bitted keys, nickel-plated			
Die-cast	90, Ø 6	45	Mauer
Die-cast	120, Ø 6/7	75	Mauer
Die-cast	150, Ø 6/7	105	Mauer
Die-cast	164, Ø 6/7	119	Mauer
Brass	70, Ø 5.9	25	Oval
Brass	90, Ø 6	45	Oval
Brass	135, Ø 6/7	90	Oval
High-strength brass	135, Ø 6/7	90	Oval
High-strength brass	150, Ø 6/7	105	Oval
High-strength brass	80-360, Ø 6/7	35-315	Oval
User double-bitted keys with foldable mechanism, nickel-plated			
High-strength brass	120-360, Ø 6/7	75-315	Oval
User double-bitted keys with detachable mechanism, nickel-plated			
High-strength brass	120-360, Ø 6/7	75-315	Oval

Option code

DSD090
 DSD120
 DSD150
 DSD164
 DSM070
 DSM090
 DSM135
 DSS135
 DSS150
 DSSxxx
 DGSxxx
 DESxxx

Scale 1:2



70094 Convar F

Changeable lock with 2-way flat bolt.
Approx. 280,000 theoretical variations.

Change is initiated at the back of the lock using a change activator.

The lock can be supplied in user or works locking mode.



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Basic Features

Lock
Convar F - standard

Approvals/Certificates

CNPP a2p Niveau B or DNV (NB: locks are available either with CNPP or DNV certification)

Specifications

Certification CNPP a2p Niveau B (no certification DNV)

Changeable lock

Change initiation at back of lock with change activator (change activator included in delivery)

Change guide projecting 18 mm

8 levers, chrome-nickel steel

Key retained when in open position

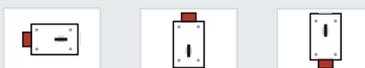
Lock case and covering plate steel, surface treated

Flat bolt chrome-nickel steel, throw 12 mm, 2-way closure

Weight approx. 810 g

Admissible mounting positions

Right hand lock, opening clockwise



Options & Accessories

Options

Version DNV - bolt pressure blocking system (no certification CNPP a2p Niveau B)

Change guide projecting 10 mm

Supplied in works locking mode

Accessories

Change activator, phosphate steel, 130 mm

Order code
70094

Option code
DNV
UFV010
AWS

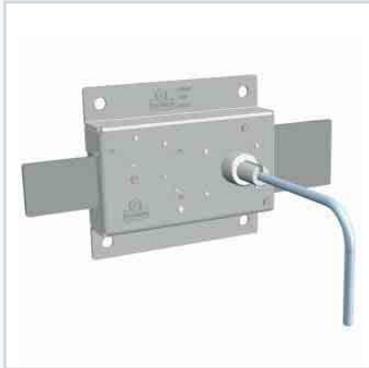
Order number
3 110 200 000

Works keys, nickel-plated

Material	Length [mm]	Usable length [mm]	Key bow
Steel	75	35	Oval
Steel	80-360	40-320	Oval

Order number
70094W0002
70094Wxxxx

70094 Convar F

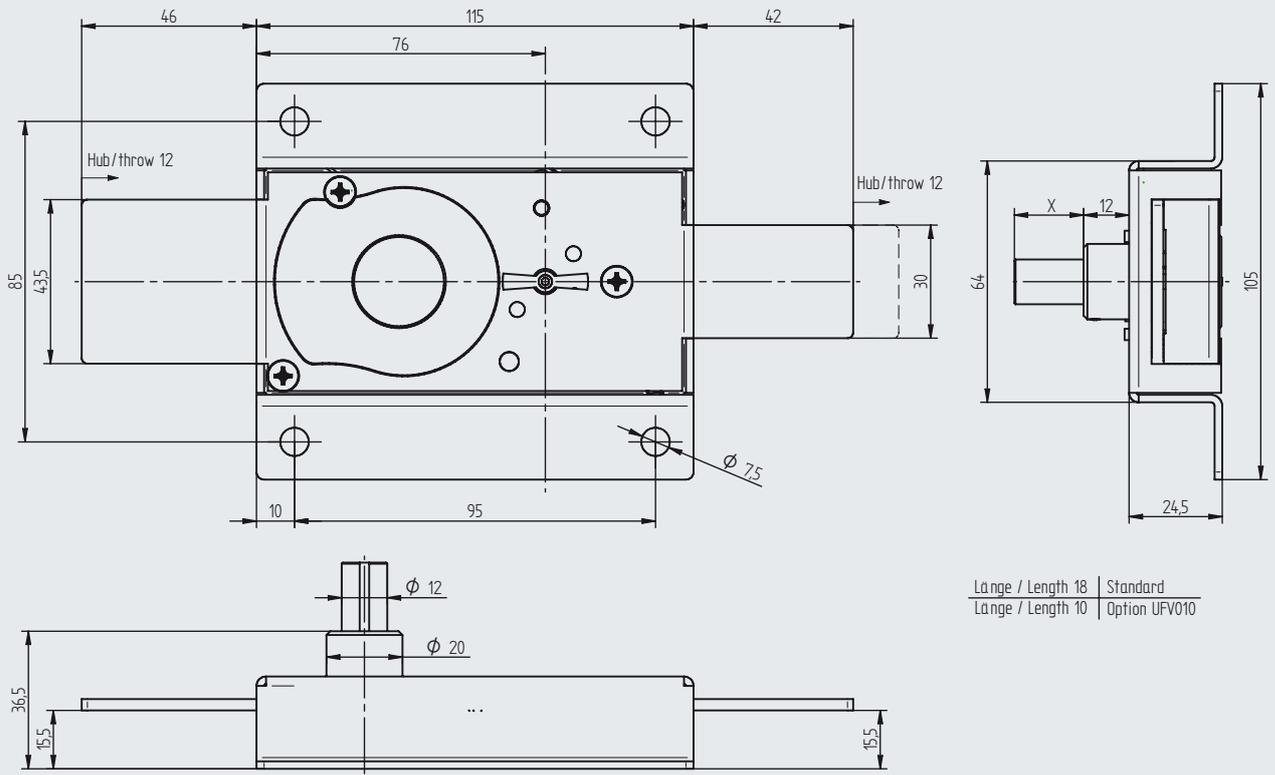


- Lock, change activator and keys
- Change initiation from the back

Keys

Keys Material	Length, Ø stem [mm]	Usable length [mm]	Key bow	Option code
User double-bitted keys, nickel-plated				
Steel	75, Ø 5.5	35	Oval	DST075
Steel	120, Ø 5.5	80	Oval	DST120
Steel	125-360, Ø 5.5	85-320	Oval	DSTxxx
User double-bitted keys with foldable mechanism, nickel-plated				
Steel	120-360, Ø 5.5	80-320	Oval	DGTxxx
User double-bitted keys with detachable mechanism, nickel-plated				
Steel	120-360, Ø 5.5	80-320	Oval	DETxxx

Scale 1:2



70095 Convar Flex

Changeable lock with flat bolt.
Approx. 280,000 theoretical variations.

The key is not retained when the lock is opened. While in open mode the lock is already activated for change. No change tool is required.

The lock can be supplied in user or works locking mode.



22

Basic Features

Lock
Convar Flex - standard

Specifications

Changeable lock, no change tool required
8 levers, chrome-nickel steel
Not key retained when in open position
Lock case and covering plate steel, surface treated
Flat bolt chrome-nickel steel, throw 12 mm
Bolt projection (lock is opened): 17 mm at the front and 25 mm at the back
Weight approx. 740 g

Admissible mounting positions

Right hand or left hand lock (upside down mounting), opening clockwise



Options & Accessories

Options

Bolt projection (lock is opened): 7 mm at the front and 25 mm at the back
Change initiation with change activator, change activator supplied,
change guide projecting 18 mm (not for option RUS007)
Change guide projecting 10 mm (only for option USW)
Supplied in works locking mode

Accessories

Change activator, phosphate steel, 130 mm (only for option USW)

Order code
70095

Option code
RUS007
USW

UFV010
AWS

Order number
3 110 200 000

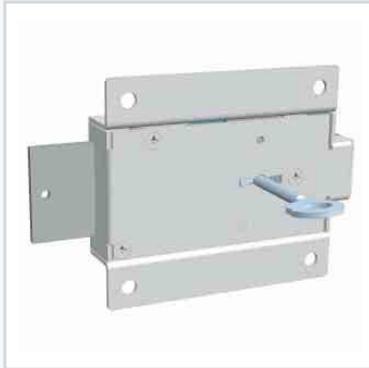
Works keys, nickel-plated

Material	Length [mm]	Usable length [mm]	Key bow
Steel	75	35	Oval
Steel	80-360	40-320	Oval

Order number

70094W0002
70094Wxxxx

70095 Convar Flex



Lock and keys with oval bow

Change initiation, no change tool required

Keys

Keys Material	Length, Ø stem [mm]	Usable length [mm]	Key bow
User double-bitted keys, nickel-plated			
Steel	75, Ø 5.5	35	Oval
Steel	120, Ø 5.5	80	Oval
Steel	125-360, Ø 5.5	85-320	Oval
User double-bitted keys with foldable mechanism, nickel-plated			
Steel	120-360, Ø 5.5	80-320	Oval
User double-bitted keys with detachable mechanism, nickel-plated			
Steel	120-360, Ø 5.5	80-320	Oval

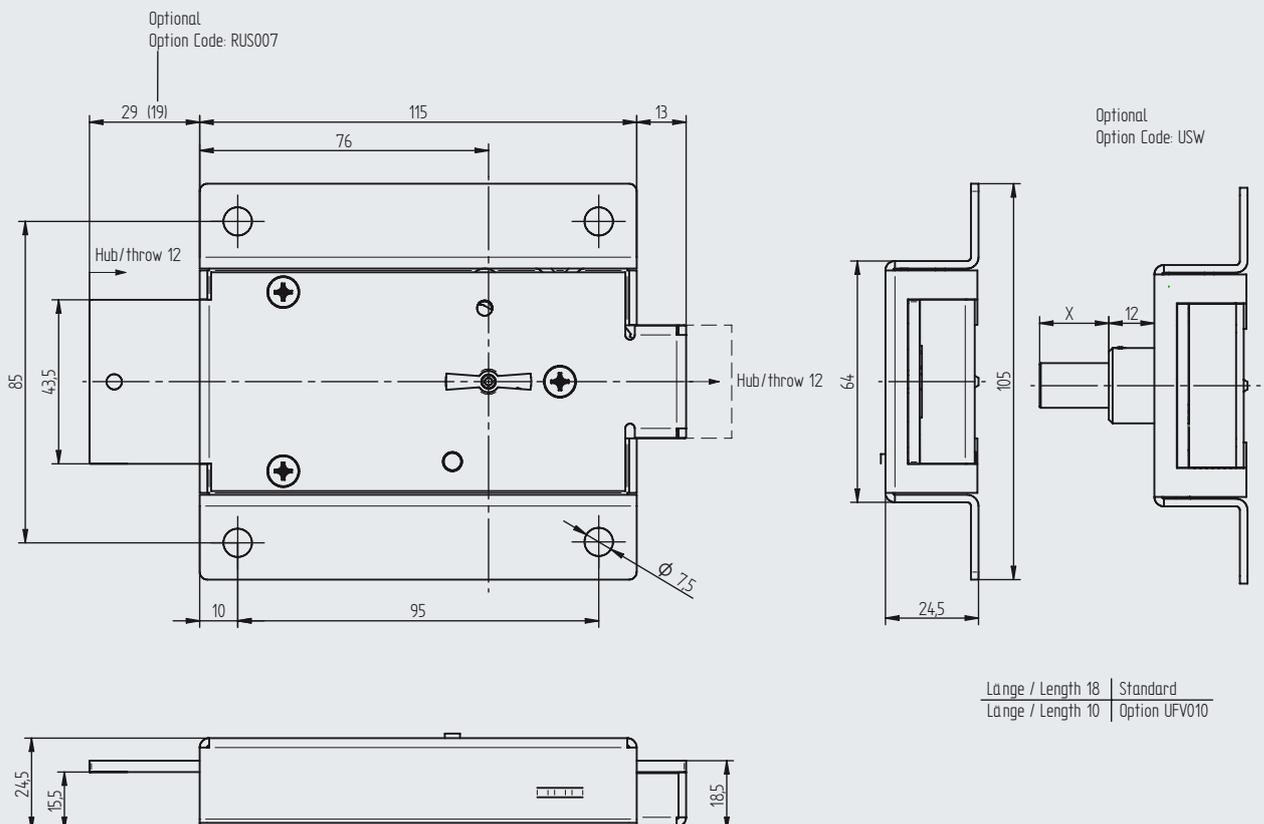
Option code

DST075
DST120
DSTxxx

DGTxxx

DETxxx

Scale 1:2



70096 Convar B

Changeable lock with dead bolt.
Approx. 280,000 theoretical variations.

Change is initiated at the back of the lock using a change activator.

3-way closure is available as an option. The lock can be supplied in user or works locking mode.



24

Basic Features

Lock
Convar B - standard

Approvals/Certificates

CNPP a2p Niveau B or DNV (NB: locks are available either with CNPP or DNV certification)

Specifications

Certification CNPP a2p Niveau B (no certification DNV)

Changeable lock

Change initiation at back of lock with change activator (change activator included in delivery)

Change guide projecting 18 mm

8 levers, chrome-nickel steel

Key retained when in open position

Lock case and covering plate steel, surface treated

Dead bolt chrome-nickel steel, throw 12 mm

Weight approx. 810 g

Admissible mounting positions

Right hand lock, opening clockwise



Options & Accessories

Options

Version DNV - bolt pressure blocking system (no certification CNPP a2p Niveau B)

Change guide projecting 10 mm

Bolt with 2 M4 threads

Lock with 3-way closure (not for option DNV)

Supplied in works locking mode

Accessories

Change activator, phosphate steel, 130 mm

Order code
70096

Option code
DNV
UFV010
RGW2x4
SDS
AWS

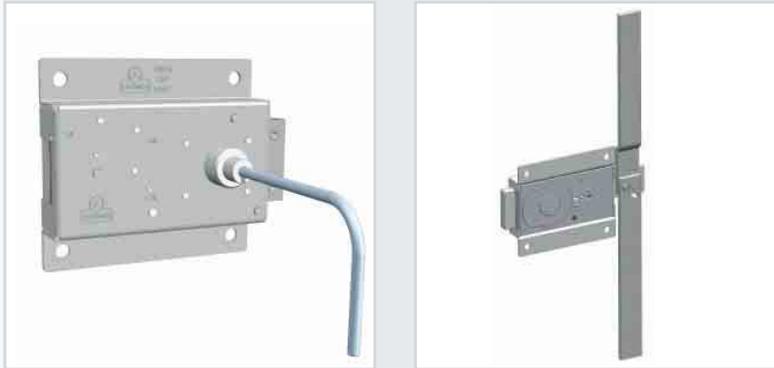
Order number
3 110 200 000

Works keys, nickel-plated

Material	Length	Usable length [mm]	Key bow
Steel	75	35	Oval
Steel	80-360	40-320	Oval

Order number
70094W0002
70094Wxxxx

70096 Convar B



-  Lock, change activator and keys
-  Change initiation from the back
-  Lock with 3-way closure

Keys

Keys

Material	Length, Ø stem [mm]	Usable length [mm]	Key bow
User double-bitted keys, nickel-plated			
Steel	75, Ø 5.5	35	Oval
Steel	120, Ø 5.5	80	Oval
Steel	125-360, Ø 5.5	85-320	Oval
User double-bitted keys with foldable mechanism, nickel-plated			
Steel	120-360, Ø 5.5	80-320	Oval
User double-bitted keys with detachable mechanism, nickel-plated			
Steel	120-360, Ø 5.5	80-320	Oval

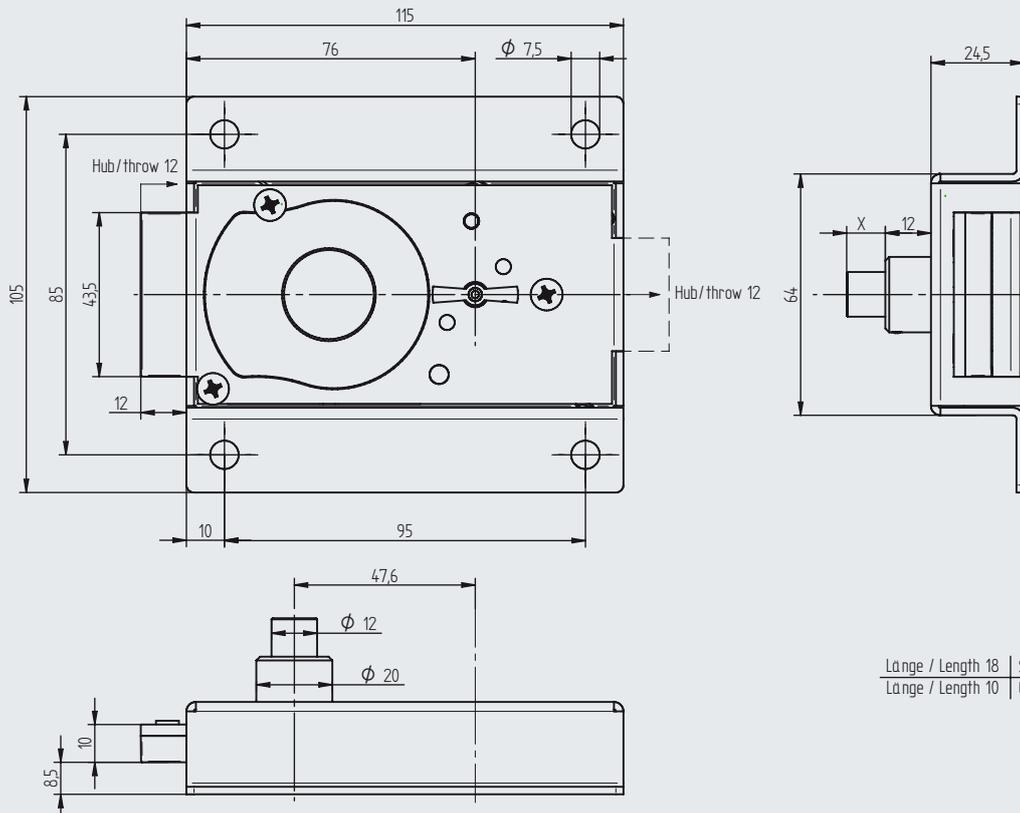
Option code

DST075
DST120
DSTxxx

DGTxxx

DETxxx

Scale 1:2



Lange / Length 18 | Standard
Lange / Length 10 | Option UFV010

71044 Certus

Lock with latch bolt and handle activation.
Approx. 280,000 theoretical variations.

In closed status the latch bolt is blocked mechanically via the control latch. The key can only be removed when the lock is locked and the control latch is engaged.

This lock is predominantly suitable for drawers and doors requiring a latch lock.



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Basic Features

Lock
Certus - standard

Specifications

- 8 levers, brass
- Key retained when in open position
- Die-cast lock case, surface treated
- Steel latch bolt with insert, nickel-plated, throw 12 mm
- Control latch, steel, nickel-plated
- Handle fitting, square spindle □ 8 mm (handle not included in delivery)
- Weight approx. 1,200 g

Admissible mounting positions
Right hand lock, opening clockwise



Order code
71044

Accessories & Keys

Accessories

- Mounting plate 2 mm thick, surface treated, with 4 M6 threaded pins, slotted nuts and securing rings
- Handle, square spindle □ 8 mm

Order number
3 118 000 340

see Handles

Keys

Material	Length, Ø stem [mm]	Usable length [mm]	Key bow
User double-bitted keys, nickel-plated			
Brass	145, Ø 6/7	98	Oval
High-strength brass	145, Ø 6/7	98	Oval

Option code

DSM145
DSS145

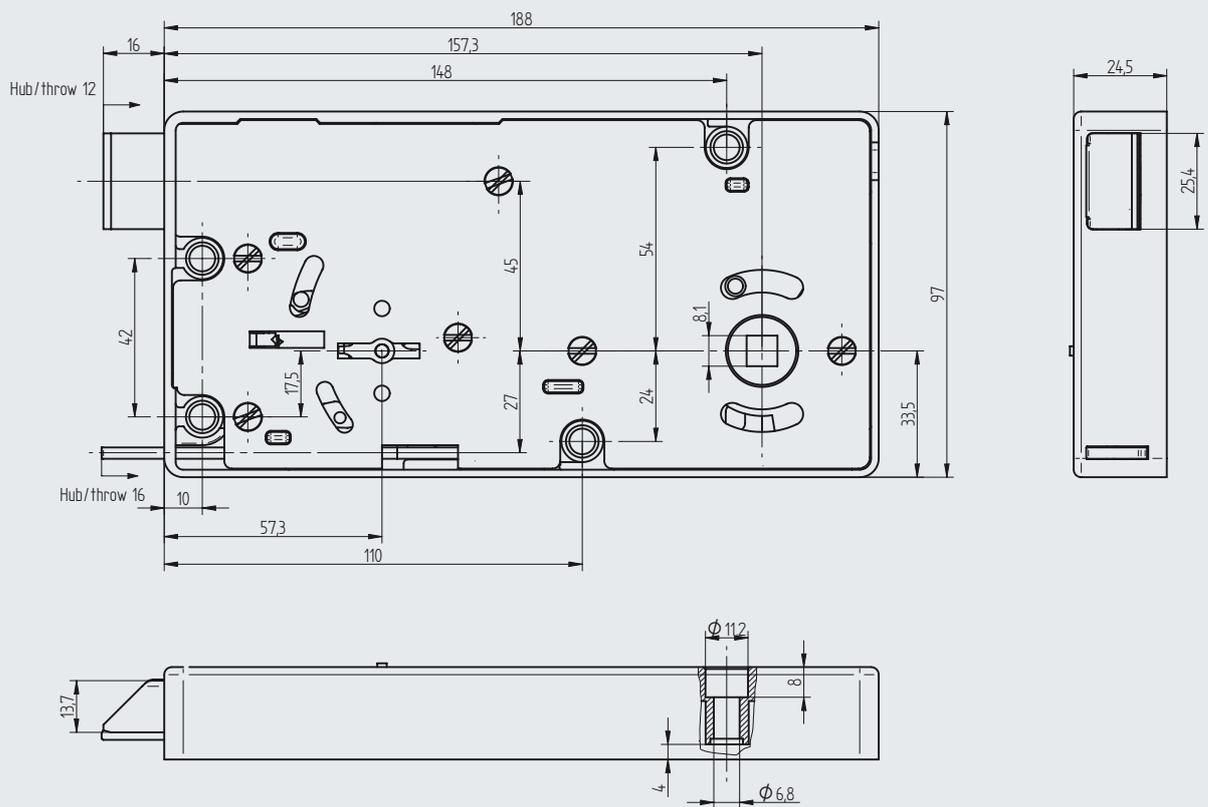
71044 Certus



- Lock and keys with oval bow
- Lock with handle

Scale 1:2

27



71111 President A 71113 President

Lock with dead bolt, 71111 President A for safes CEN 0-II.
Approx. 280,000 theoretical variations.
Standard footprint.

The high sales rate reflects this lock's success world-wide.

The 71113 President lock is similar to the listed 71111 President A lock, but offers additional options which exclude certification. For example "keyed alike" or "non key retaining" versions are available.



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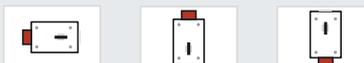
General Features

Specifications

8 levers, electrolytic galvanised steel
Key retained when in open position
Die-cast lock case and bolt, throw 12 mm
Weight approx. 340 g

Admissible mounting positions

Right hand lock, opening clockwise



Lock
President A - standard

Approvals/Certificates

EN 1300 A, ECB-S, CNPP a2p(E) Niveau A, VdS class 1, GOST class B, IMP class A, UL 437

Order code
71111

Lock
President - standard

Approvals/certificates UL 437, additional options available

Order code
71113

Options & Accessories

Options

Microswitch for bolt monitoring (two-way contact)	71111	71113
Bolt with 2 M4 threads	✓	✓
Key pin projecting 9 mm	✓	✓
Lock case and bolt surface treated	✓	✓
Locks keyed alike		✓
Not key retained when in open position, not suitable for access doors		✓
Key marked with permutation number		✓
Left hand lock, opening counter-clockwise	✓	✓



Option code
RSK
RGW2x4
SDV
SRO
GSL
SAB
RPP
SLG

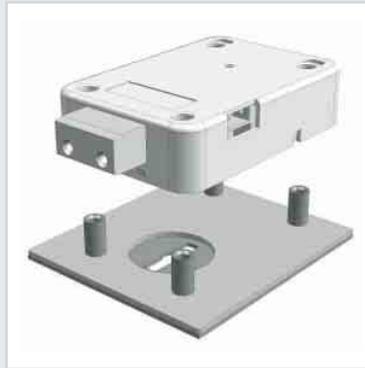
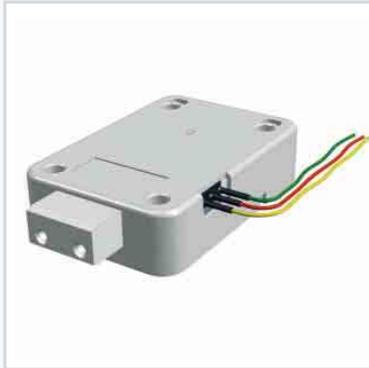
Accessories

Lock fixing screw: cheese head screw galvanised, DIN 84 - BSW ¼" x 29 mm - 4.8, securing ring
Mounting plate 2 mm thick, with 4 M5 threaded bushings, screws and securing rings
Mounting plate 2 mm thick with manganese steel plate 1.5 mm thick, with 4 M5 threaded bushings, screws and securing rings

Order number
3 118 000 030
3 118 000 300
3 118 000 290

71111 President A

71113 President

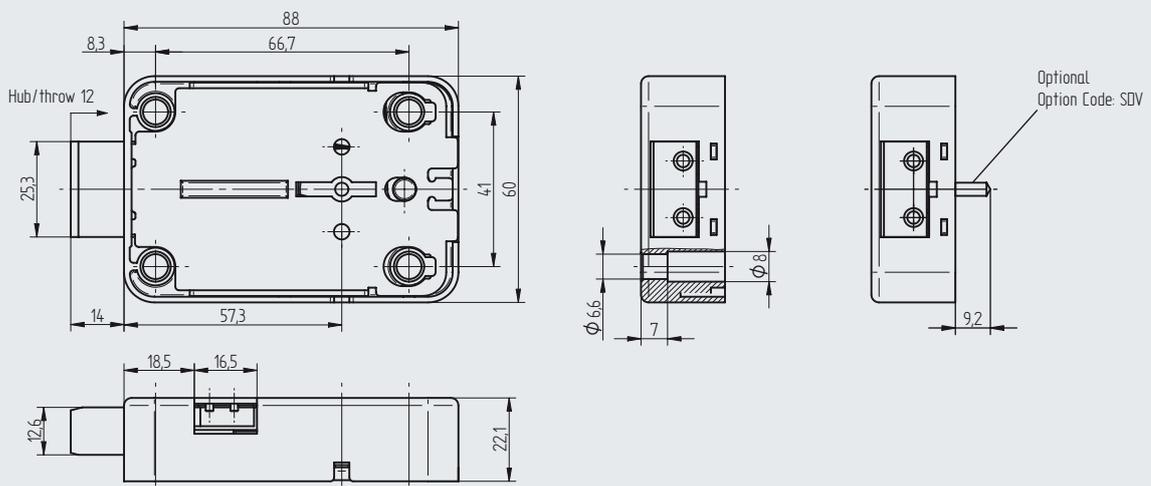


-  Lock and keys with Mauer bow
-  Microswitch for bolt monitoring
-  Mounting plate with manganese steel plate

Keys

Keys Material	Length, Ø stem [mm]	Usable length [mm]	Key bow	Option code
User double-bitted keys, nickel-plated				
Die-cast	65, Ø 6	20	Mauer	DSD065
Die-cast	90, Ø 6/7	45	Mauer	DSD090-M
Die-cast	90, Ø 6	45	Oval	DSD090-O
Die-cast	105, Ø 6/7	60	Oval	DSD105
Die-cast	120, Ø 6/7	75	Mauer	DSD120
Die-cast	150, Ø 6/7	105	Mauer	DSD150
Die-cast	164, Ø 6/7	119	Mauer	DSD164
Brass	70, Ø 5.9	25	Oval	DSM070
Brass	90, Ø 6	45	Oval	DSM090
Brass	120, Ø 6/7	75	Mauer	DSM120
Brass	145, Ø 6/7	100	Oval	DSM145
Brass	160, Ø 6/7	115	Oval	DSM160
High-strength brass	120, Ø 6/7	75	Oval	DSS120
High-strength brass	145, Ø 6/7	100	Oval	DSS145
High-strength brass	150-360, Ø 6/7	110-315	Oval	DSSxxx
User double-bitted keys with foldable mechanism, nickel-plated				
High-strength brass	120-360, Ø 6/7	70-310	Oval	DGSxxx
User double-bitted keys with detachable mechanism, nickel-plated				
High-strength brass	120-360, Ø 6/7	70-310	Oval	DESxxx

Scale 1:2



72016 Curator 100

Lock with dead bolt and 3-way closure.
Approx. 46,000 theoretical variations.

The solid steel case construction with 3-way closure facilitates its integration in door systems which are closed directly by the lock's bolt and shafts.

The lock can be supplied optionally with 1-way closure.



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Basic Features

Lock
Curator 100 - standard

Specifications

- 3-way closure
- 7 levers, electrolytic galvanised steel
- Key retained when in open position
- Keyhole concentric
- Steel lock case, surface treated
- Die-cast bolt, surface treated, throw 12 mm
- Weight approx. 725 g

Admissible mounting positions

Right hand lock, opening clockwise



Order code
72016

Options, Accessories & Keys

Options

- Not key retained when in open position, not suitable for access doors
- Lock with 1-way closure
- Keyhole non concentric
- Key guide projecting 4 mm, aluminium EV1 anodised, Ø 29.5 mm, riveted
- Key guide projecting 6.5 mm, aluminium EV1 anodised, Ø 29.5 mm, riveted
- Key guide projecting 8 mm, aluminium EV1 anodised, Ø 29.5 mm, riveted
- Key guide projecting 12 mm, aluminium EV1 anodised, Ø 29.5 mm, riveted

Left hand lock, opening counter-clockwise



Accessories

- Mounting plate 2 mm thick, with 4 M5 threaded bushings, screws and securing rings
- Manganese steel plate 1.5 mm thick

Option code

- SAB
- SES
- WSO
- SFA004
- SFA6.5
- SFA008
- SFA012

SLG

Order number

- 3 118 000 350
- 2 130 001 830

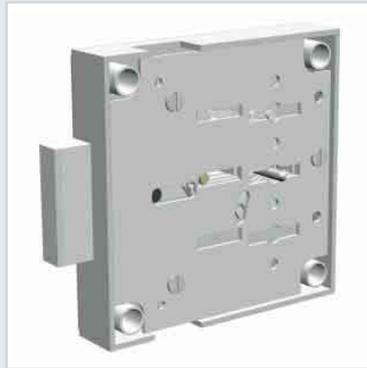
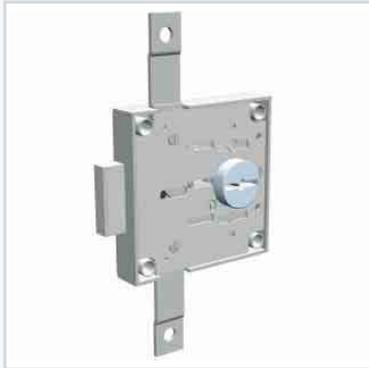
Keys

Material	Length, Ø stem [mm]	Usable length [mm]	Key bow
User double-bitted keys with lock and permutation number, nickel-plated			
Brass	55, Ø 5.5	18	Oval
Brass	70, Ø 5.8	33	Oval
Steel	55, Ø 6	18	Oval

Option code

- DSM055
- DSM070
- DST055

72016 Curator 100

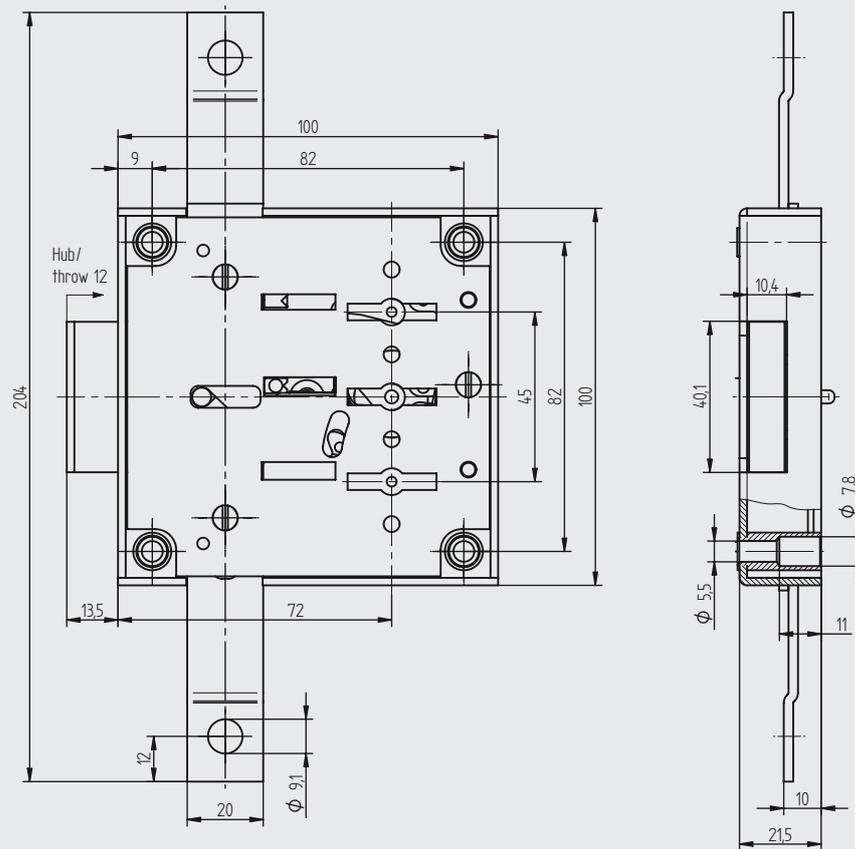


 Lock and keys with oval bow

 Lock with key guide

 Lock with 1-way closure

Scale 1:2



72081 Curator 80

Lock with dead bolt prepared for cylinder.

This lock is suitable for external applications as the entire surface is surface treated.

It is available with a double-bitted locking (for interior applications) as an option. The profile cylinder is not included in the delivery.



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Basic Features

Lock
Curator 80 - standard

Specifications

Prepared for profile cylinder
Steel lock case, surface treated
Die-cast bolt, surface treated, throw 12 mm
Weight approx. 380 g

Admissible mounting positions
Right hand lock, opening clockwise



Order code
72081

Options, Accessories & Keys

Options (* only for option SDB)

Lock with 3-way closure
Lock with double-bitted locking

- 7 levers, electrolytic galvanised steel
- Key retained when in open position
- Right hand lock, opening clockwise

Not key retained when in open position, not suitable for access doors*

Key guide projecting 4.5 mm, aluminium EV1 anodised, Ø 29.5 mm, riveted*

Key guide projecting 7 mm, aluminium EV1 anodised, Ø 29.5 mm, riveted*

Key guide projecting 8.5 mm, aluminium EV1 anodised, Ø 29.5 mm, riveted*

Key guide projecting 12.5 mm, aluminium EV1 anodised, Ø 29.5 mm, riveted*

Left hand lock, opening counter-clockwise



Accessories

Mounting plate 2 mm thick, with 4 M5 threaded bushings, screws and securing rings
Manganese steel plate 1.5 mm thick

Option code
SDS
SDB

SAB*
SFA4.5*
SFA007*
SFA8.5*
SFA12.5*

SLG

Order number
3 118 000 350
2 130 001 830

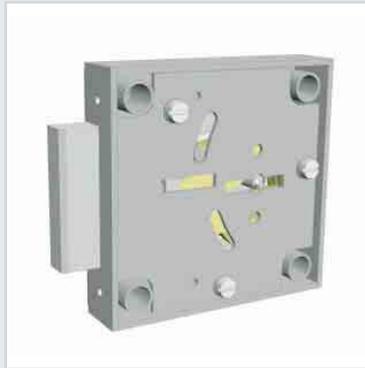
Keys (* only for option SDB)

Material	Length, Ø stem [mm]	Usable length [mm]	Key bow
User double-bitted keys with lock and permutation number, nickel-plated			
Brass*	55, Ø 5.5	18	Oval
Steel*	55, Ø 6	18	Oval

Option code

DSM055*
DST055*

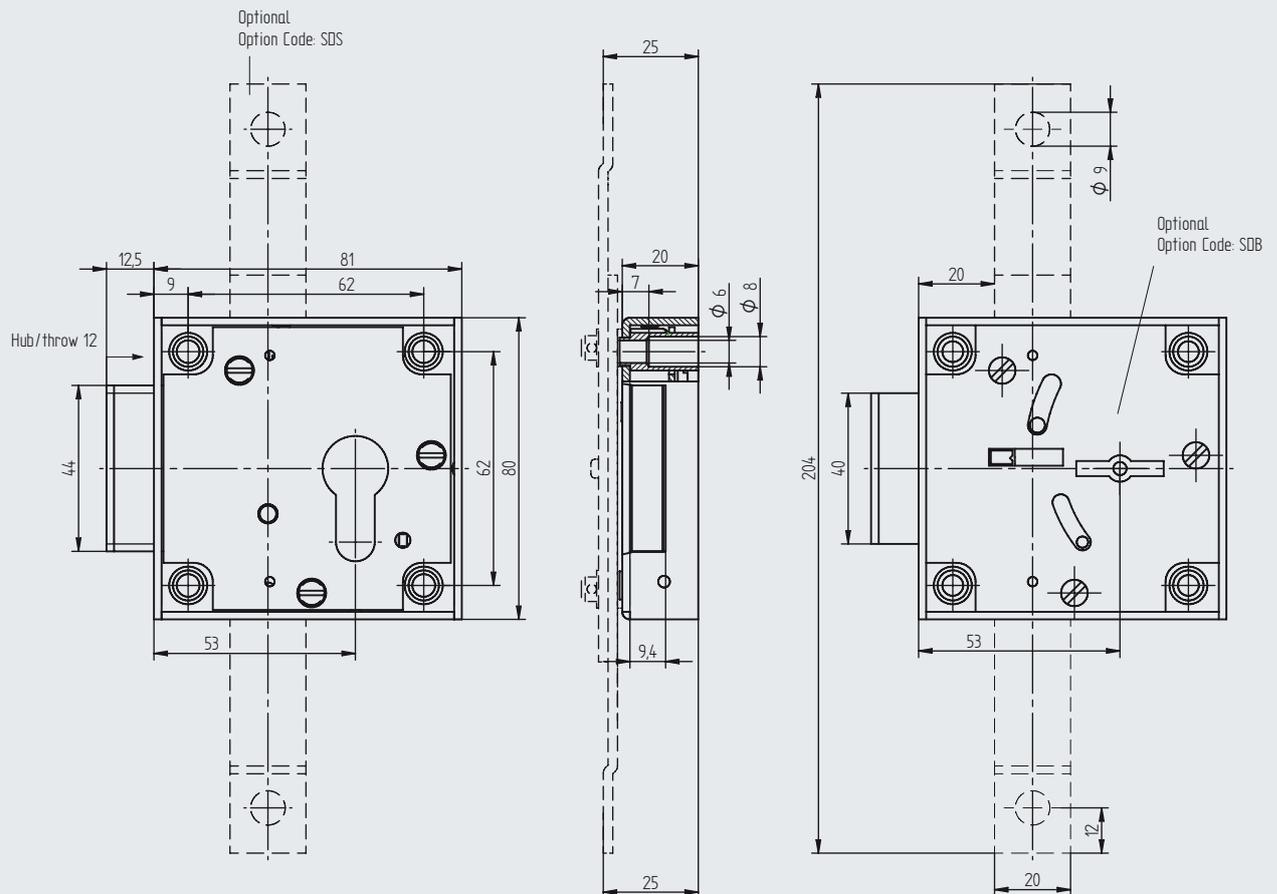
72081 Curator 80



-  Lock prepared for profile cylinder
-  Lock with 3-way closure
-  Lock with double-bitted locking

Scale 1:2

33



73042 Tricontus A 73043 Tricontus

Lock with blocking bolts for safes CEN 0-II.
Approx. 280,000 theoretical variations.

The special triple bolt design facilitates direct locking into the safe closure.

The 73043 Tricontus lock is similar to the listed 73042 Tricontus A lock, but offers additional options which exclude certification. For example "keyed alike" or "non key retaining" versions are available.



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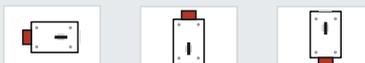
General Features

Specifications

8 levers, electrolytic galvanised steel
Key retained when in open position
Die-cast lock case and bolt, throw 12 mm
Weight approx. 350 g

Admissible mounting positions

Right hand lock, opening clockwise



Lock

Tricontus A - standard

Approvals/Certificates

EN 1300 A, ECB-S, VdS class 1, GOST class A

Order code

73042

Lock

Tricontus - standard

Without any approvals/certificates, additional options available

Order code

73043

Options, Accessories & Keys

Options

Lock case and bolt surface treated
Locks keyed alike
Not key retained when in open position, not suitable for access doors
Key marked with permutation number

	73042	73043
Lock case and bolt surface treated	✓	✓
Locks keyed alike		✓
Not key retained when in open position, not suitable for access doors		✓
Key marked with permutation number		✓

Option code

SRO
GSL
SAB
RPP

Accessories

Mounting plate 2 mm thick, with 4 M5 threaded bushings, screws and securing rings
Mounting plate 2 mm thick with manganese steel plate 1.5 mm thick, with 4 M5 threaded bushings, screws and securing rings

Order number

3 118 000 260
3 118 000 270

Keys

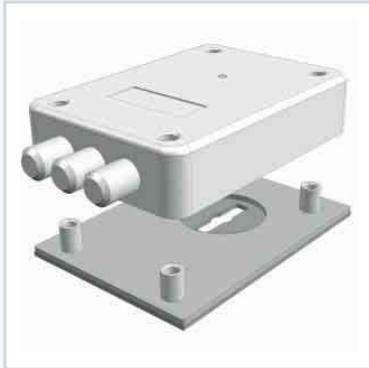
Material	Length, Ø stem [mm]	Usable length [mm]	Key bow
User double-bitted keys with lock and permutation number, nickel-plated			
Die-cast	65, Ø 5.9	38	Mauer
Die-cast	90, Ø 6/7	63	Mauer
Die-cast	105, Ø 6/7	78	Oval
Brass	70, Ø 5.8	43	Oval

Option code

DSD065
DSD090
DSD105
DSM070

73042 Tricontus A

73043 Tricontus

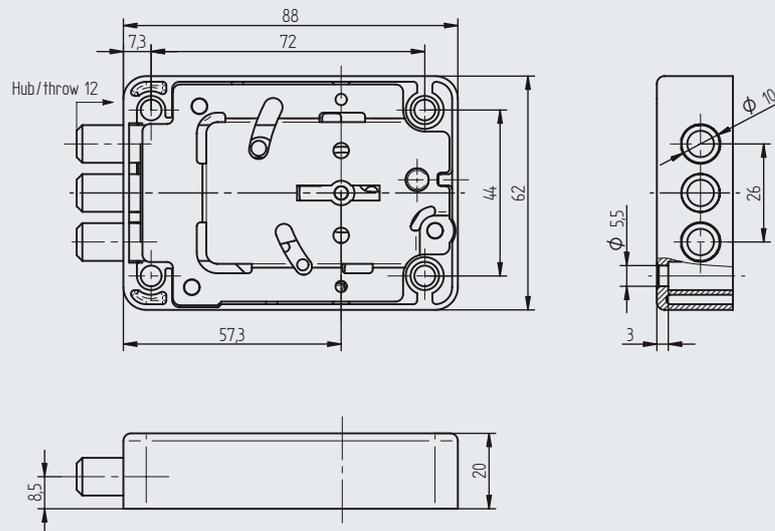


Lock and keys with Mauer bow

Mounting plate with manganese steel plate

Scale 1:2

35



73071 Vary 73073 Vary Flex

Changeable lock with dead bolt.
Approx. 78,000 theoretical variations.

In the version 73071 Vary the key is retained when the lock is opened. Change is initiated via a slide unit at the back of the lock.
In the version 73073 Vary Flex the key is not retained when the lock is opened. While in open mode the lock is already activated for change. No change tool is required. This function enables extensive utilisation possibilities, e.g. if different persons in a hotel or shift work use one or several containers.



36

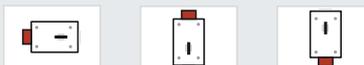
General Features

Specifications

8 levers, electrolytic galvanised steel
Die-cast lock case and bolt, throw 9 mm
Weight approx. 380 g

Admissible mounting positions

Right hand lock, opening clockwise



Lock

Vary - standard

Specifications

Changeable lock, change initiation via a slide unit at the back of the lock
Key retained when in open position

Order code

73071

Lock

Vary Flex - standard

Specifications

Changeable lock, no change tool required
Not key retained when in open position, not suitable for access doors

Order code

73073

Options & Accessories

Options

Bolt with 2 M5 threads
Lock case and bolt surface treated
Key marked with permutation number
Supplied in works locking mode

Option code

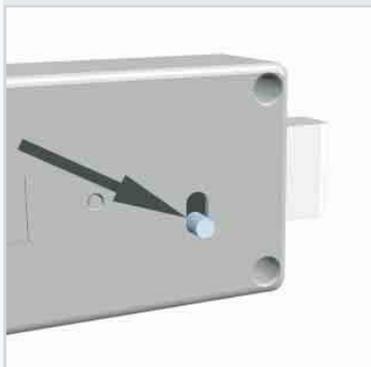
RGW2x5
SRO
RPP
AWS

Accessories

Mounting plate 2 mm thick, with 4 M5 threaded bushings, cap nuts and securing rings
Mounting plate 2 mm thick with manganese steel plate 1.5 mm thick, with 4 M5 threaded bushings, cap nuts and securing rings
Mounting plate 2 mm thick with key guide projecting 6, 8.5, 10 or 14 mm on request

Order number

3 118 000 250
3 118 000 360



73071 Vary 73073 Vary Flex



Lock and keys with oval bow

Change initiation from the back

Works keys, nickel-plated			
Material	Length [mm]	Usable length [mm]	Key bow
Die-cast	70	29	Square
Brass	70	29	Oval

Keys			
Material	Length, Ø stem [mm]	Usable length [mm]	Key bow
User double-bitted keys, nickel-plated			
Brass	70, Ø 5.7	29	Oval

Order number

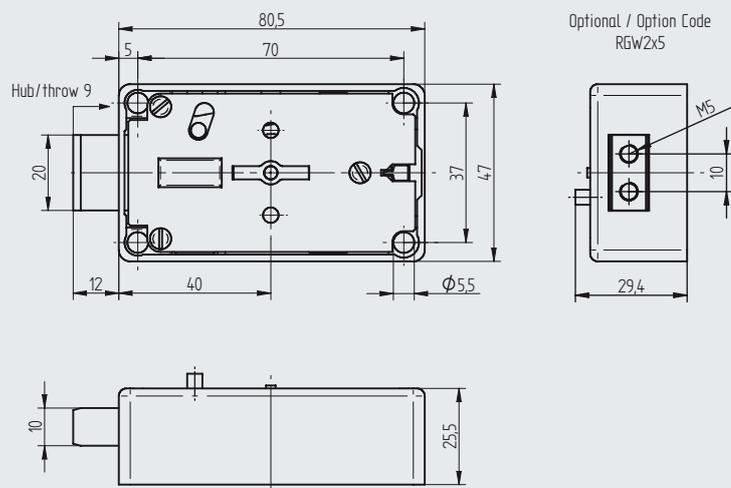
73070W0001
73070W0002

Option code

DSM070

37

Scale 1:2

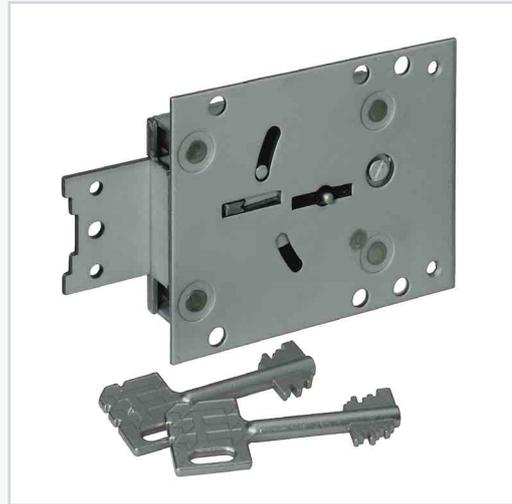


74041 Centurio A 74043 Centurio

Lock with flat bolt for safes GEN 0-II.
Approx. 280,000 theoretical variations.

The lock cover can be used as a mounting plate and enables one to screw or weld the lock directly on to the door. Angles can be fitted optionally to provide screwed on or riveted connections to mount heavy duty blocking bolts.

The 74043 Centurio lock is similar to the listed 74041 Centurio A lock, but offers additional options which exclude certification. For example “keyed alike” or “non key retaining” versions are available.



38

General Features

Specifications

- 8 levers, electrolytic galvanised steel
- Key retained when in open position
- Lock case and flat bolt electrolytic galvanised steel, throw 12 mm
- Mounting plate (lock cover), electrolytic galvanised steel, 2 mm thick
- Weight approx. 390 g

Admissible mounting positions

Right hand lock, opening clockwise



Lock
Centurio A - standard

Order code
74041

Approvals/Certificates
EN 1300 A, ECB-S, VdS class 1, GOST class A, IMP class A

Lock
Centurio - standard

Order code
74043

Without any approvals/certificates, additional options available

Options

Options	73041	73043	Option code
Loose mounting plate (lock cover) 2 mm thick, with 4 M5 threaded bushings, screws and securing rings	✓	✓	MPL
Manganese steel plate 1.5 mm thick, spot welded under mounting plate (lock cover)	✓	✓	BPL
Locks keyed alike		✓	GSL
Not key retained when in open position, not suitable for access doors		✓	SAB
Key marked with permutation number		✓	RPP
Left hand lock, opening counter-clockwise	✓	✓	SLG

Angles screwed (round holes to take bolts) or riveted (slotted holes to take bolts)

Length [mm]	Screwed without bolts	Screwed with bolts Ø 20	Screwed with bolts Ø 25	Riveted without bolts
120	WWS000	WWS020	WWS025	WWN000
170	WXS000	WXS020	WXS025	WXN000
220	WYS000	WYS020	WYS025	WYN000
320	WZS000	WZS020	WZS025	WZN000

74041 Centurio A

74043 Centurio

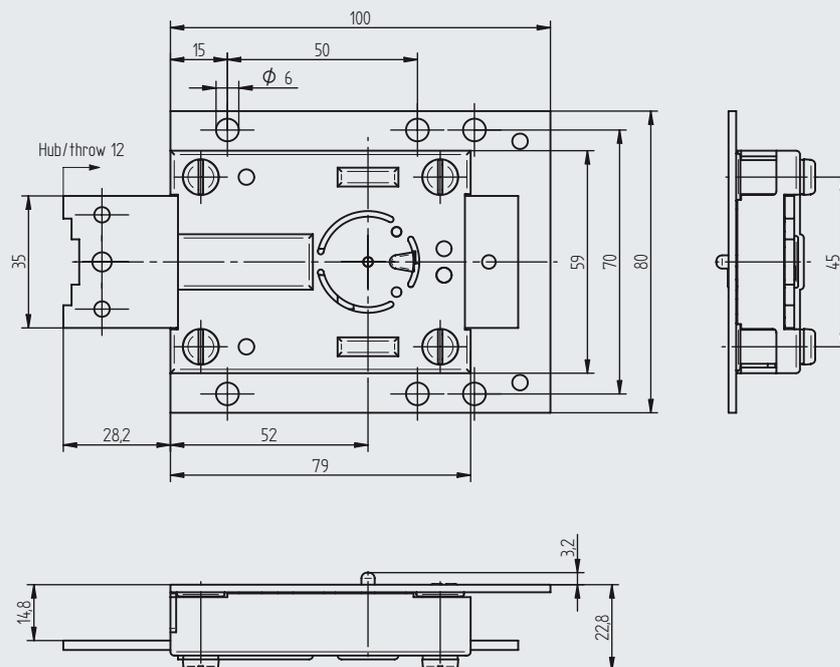


-  Lock and keys with Mauer bow
-  Angles screwed or riveted
-  Angles in different lengths

Keys

Keys Material	Length, Ø stem [mm]	Usable length [mm]	Key bow	Option code
User double-bitted keys, nickel-plated				
Die-cast	65, Ø 5.9	39	Mauer	DSD065
Die-cast	90, Ø 6/7	64	Mauer	DSD090
Die-cast	120, Ø 6/7	94	Mauer	DSD120
Brass	70, Ø 5.8	44	Oval	DSM070
Brass	90, Ø 6	64	Oval	DSM090
Brass	120, Ø 6/7	94	Mauer	DSM120
High-strength brass	120, Ø 6/7	94	Oval	DSS120

Scale 1:2

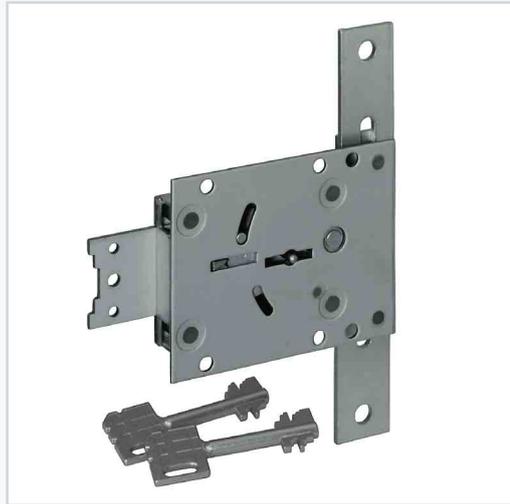


74046 Centurio A Plus 74047 Centurio Plus

Lock with flat bolt and 3-way closure for safes CEN 0-II.
Approx. 280,000 theoretical variations.

The lock cover can be used as a mounting plate and enables one to screw or weld the lock directly on to the door. Angles can be fitted optionally to provide screwed on or riveted connections to mount heavy duty blocking bolts.

The 74047 Centurio Plus lock is similar to the listed 74046 Centurio A Plus lock, but offers additional options which exclude certification. For example "keyed alike" or "non key retaining" versions are available.



40

General Features

Specifications

- 3-way closure, 8 levers, electrolytic galvanized steel
- Key retained when in open position
- Lock case and flat bolt electrolytic galvanized steel, throw 12 mm
- Mounting plate (lock cover), electrolytic galvanized steel, 2 mm thick
- Weight approx. 530 g

Admissible mounting positions

Right hand lock, opening clockwise



Lock
Centurio A Plus - standard

Order code
74046

Approvals/Certificates
EN 1300 A, ECB-S, VdS class 1, GOST class A, IMP class A

Lock
Centurio Plus - standard

Order code
74047

Without any approvals/certificates, additional options available

Options

Options	73046	73047	Option code
Loose mounting plate (lock cover) 2 mm thick, with 4 M5 threaded bushings, screws and securing rings	✓	✓	MPL
Manganese steel plate 1.5 mm thick, spot welded under mounting plate (lock cover)	✓	✓	BPL
Locks keyed alike		✓	GSL
Not key retained when in open position, not suitable for access doors		✓	SAB
Key marked with permutation number		✓	RPP
Left hand lock, opening counter-clockwise	✓	✓	SLG



Angles screwed (round holes to take bolts) or riveted (slotted holes to take bolts)

Length [mm]	Screwed without bolts	Screwed with bolts Ø 20	Screwed with bolts Ø 25	Riveted without bolts
120	WWS000	WWS020	WWS025	WWN000
170	WXS000	WXS020	WXS025	WXN000
220	WYS000	WYS020	WYS025	WYN000
320	WZS000	WZS020	WZS025	WZN000

78091 Arator

Lock with dead bolt for lockers and boxes.

Approx. 280,000 theoretical variations.

The lock is very compactly constructed and therefore particularly suitable for use in safe deposit and collection units. It is listed in VdS class 1 for use in safe deposit units.



42

Basic Features

Lock
Arator - standard

Approvals/Certificates

VdS class 1 for use in safe deposit units

Specifications

7 levers, electrolytic galvanised steel
Key retained when in open position
Die-cast lock case and bolt, throw 10 mm
Weight approx. 180 g

Admissible mounting positions

Right hand lock, opening clockwise



Order code
78091

Options, Accessories & Keys

Options

Lock case and bolt surface treated
Lock with 2-way closure

Option code
SRO
SZS

Accessories

Mounting plate 2 mm thick, with 4 M4 threaded bushings, screws and securing rings
Mounting plate 2 mm thick with manganese steel plate 1.5 mm thick, with 4 M4 threaded bushings, screws and securing rings

Order number
3 118 000 180
3 118 000 170

Keys

Material	Length, Ø stem [mm]	Usable length [mm]	Key bow
User double-bitted keys, nickel-plated			
Die-cast	55, Ø 5.3	17	Mauer
Die-cast	90, Ø 5.3	52	Mauer

Option code

DSD055
DSD090

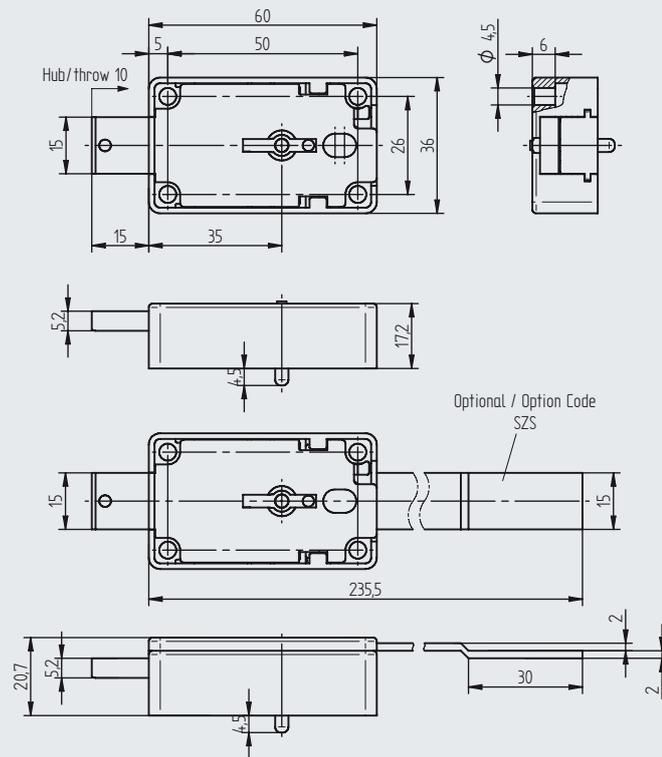
78091 Arator

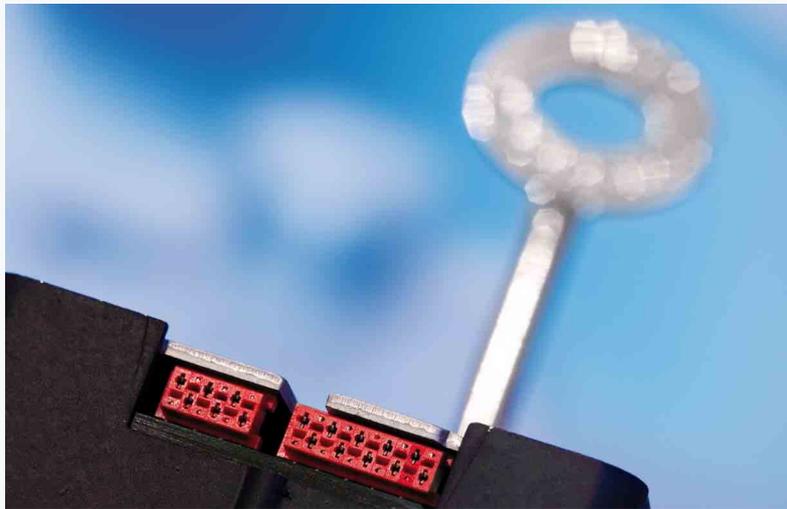


- Lock and keys with Mauer bow
- Lock with 2-way closure and keys

Scale 1:2

43





44

Safe Locks: Electronically Controlled Key Locks

The mechatronic double-bitted key locks are mainly used for customer specific control systems. With their patented release and disabling functions they can be integrated very easily.

Overview



Varios E

Varios E Flex

9 levers, standard footprint, changeable, dead bolt, latch bolt (opt.)



E-Variator B

EN 1300 B, ECB-S, VdS-CI.2, GOST-CI. B

11 levers, standard footprint, changeable, dead bolt

Order code

70171

70172

70211

P

46

46

48

70171 Varios E 70172 Varios E Flex

Electronically controlled, changeable lock with dead bolt.
Approx. 390,000 theoretical variations. Standard footprint.

The user key gives via an internal microswitch a start signal for the external control system. Depending on the external control system different release functions (e.g. time delay, dual mode, remote release) can be realised.

In version 70171 Varios E the key is retained when the lock is opened. The change to a new key will be initiated via a slide unit at the back of the lock. In version 70172 Varios E Flex the key is not retained when the lock is opened. While in open mode the lock is already activated for change.



46

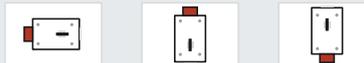
General Features

Specifications

Changeable lock
9 levers, electrolytic galvanised steel
Die-cast lock case and bolt, surface treated, throw 12 mm
Weight approx. 760 g

Admissible mounting positions

Right hand lock, opening clockwise



Electro-mechanical function

Connection cable 1 x 4 wires, 250 mm usable length, cable ends tin-plated

Interface	Function element	Specification	Operating time (OT)
Input	Solenoid for release	563 Ohm, $U_{min}=5$ V DC	5 - 12 V: 100% OT 24 V: 87% OT
Output	Microswitch for key monitoring	Normally open, 50 mA, 30 V DC	

Lock Varios E - standard

Specifications
Changeable lock, change initiation via slide unit at the back of the lock
Key retained when in open position

Order code
70171

Lock Varios E Flex - standard

Specifications
Changeable lock, no change tool required
Not key retained when in open position, not suitable for access doors

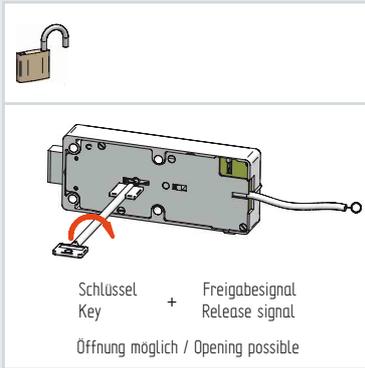
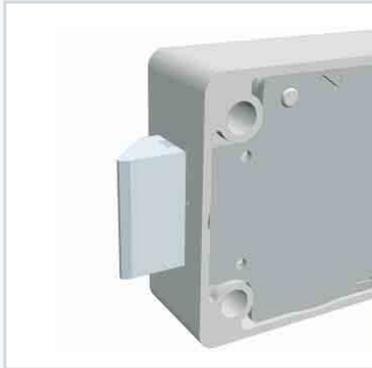
Order code
70172

Options & Accessories

Options
Lock with latch bolt
Supplied in works locking mode
Microswitch for key monitoring (change over contact), connection cable 1 x 5 wires, 250 mm usable length, cable ends tin-plated

Option code
SFR
AWS
SSK005

70171 Varios E 70172 Varios E Flex



-  Lock and keys with oval bow
-  Lock with latch bolt
-  Opening with release signal

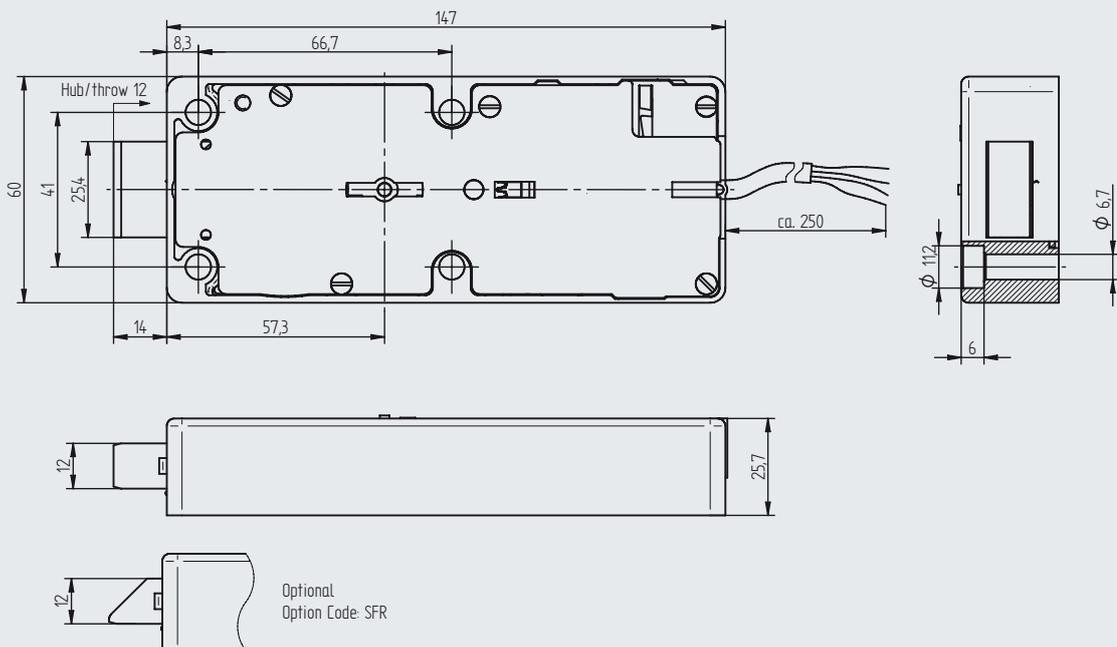
Works keys, nickel plated			
Material	Length [mm]	Usable length [mm]	Key bow
Brass	90	45	Oval
Brass	150	105	Square

Keys			
Material	Length, Ø stem [mm]	Usable length [mm]	Key bow
User double-bitted keys, nickel-plated			
Brass	90, Ø 6	45	Oval
Brass	135, Ø 6/7	90	Oval
Brass	150, Ø 5.6	105	Square
High-strength brass	135, Ø 6/7	90	Oval
High-strength brass	120-235, Ø 6/7	75-190	Oval

Order number
70160S0015
70160S0013

Option code
DSM090
DSM135
DSM150
DSS135
DSSxxx

Scale 1:2



70211 E-Variator B

Electronically controlled, changeable lock with dead bolt for safes CEN III-V. Approx. 10 million theoretical variations. Standard footprint.

Depending on the control conception different release functions (e.g. time delay, dual mode, remote release) or an electronic blocking function can be realised. A start signal for the external control system is activated by the key opening. The start signal as well as the bolt monitoring is offered as output.

Change can be initiated from the front utilising a change activator or via a slide unit at the back of the lock.



48

Basic Features

Lock
E-Variator B - standard

Approvals/Certificates
EN 1300 B, ECB-S, VdS class 2, GOST class B

Specifications
Changeable lock
11 levers, electrolytic galvanised steel
Key retained when in open position
Die-cast lock case and bolt
Bolt with 2 M4 threads, throw 12 mm
Prepared for bolt extension to the front
Weight approx. 700 g

Admissible mounting positions
Right hand lock, opening clockwise



Electro-mechanical function
RJ11-connector, 2 x 6 wires

Interface	Function element	Specification	Operating time (OT)
Input	Solenoid for release	563 Ohm, U _{min} =5 V DC	5 - 12 V: 100% OT 24 V: 87% OT
Output	Microswitch for key monitoring	Change-over contact, 100 mA, 30 V DC	
Output	Microswitch for bolt monitoring	Change-over contact, 100 mA, 30 V DC	

Order code
70211

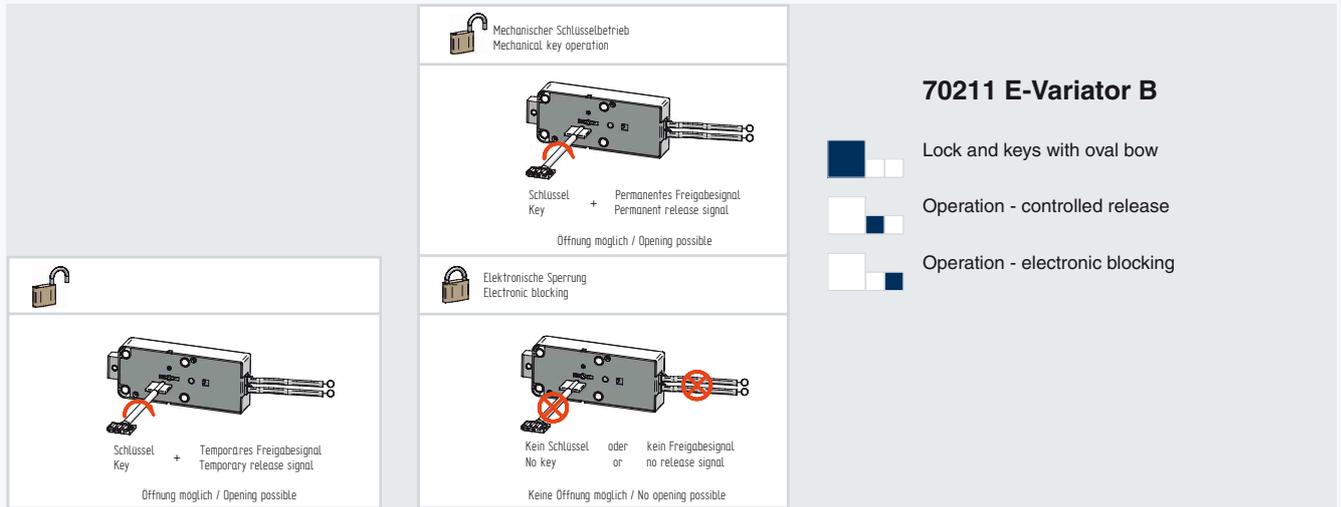
Options & Accessories

Options
Lock case and bolt surface treated
Supplied in works locking mode

Accessories
Bolt extension to the front, incl. fixing screw
Lock fixing screw: cheese head screw galvanised, DIN 84 - BSW ¼" x 36 mm - 4.8, securing ring
Leather pouch for detachable bit part
Key carrier Servant K
Cables in other lengths on request

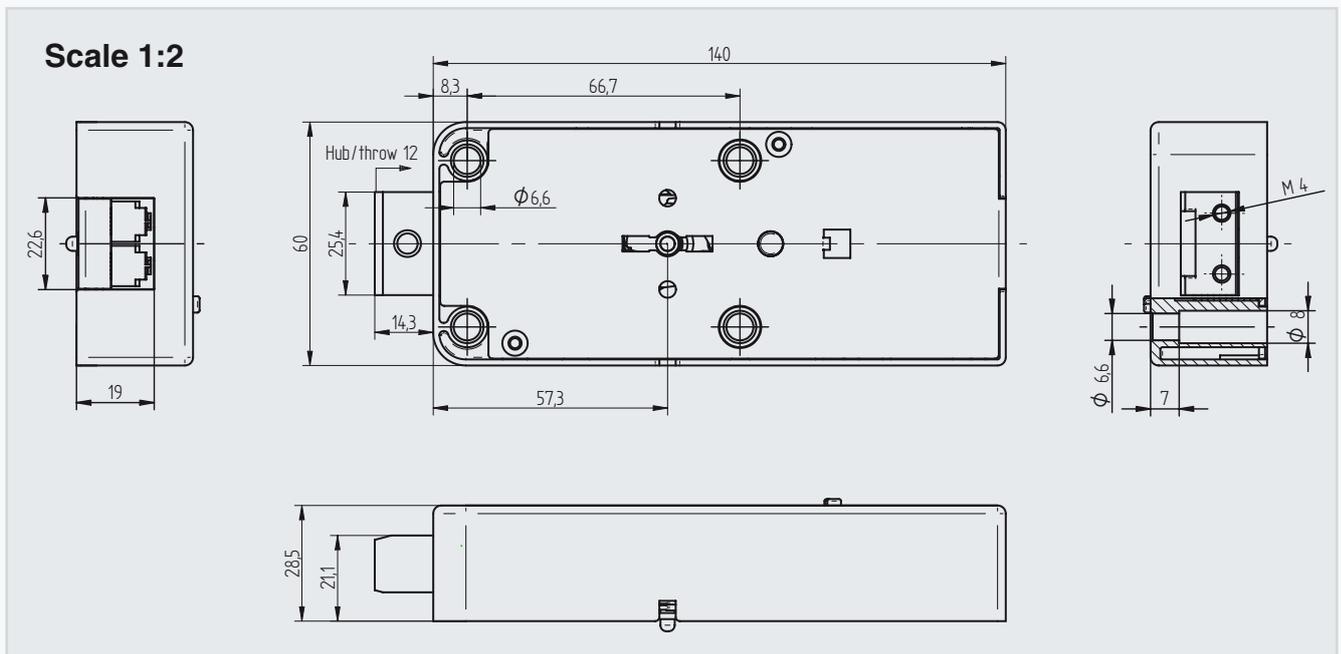
Option code
SRO
AWS

Order number
3 118 000 420
3 118 000 010
1 408 999 900
[see 86124](#)



Works keys and change activators, nickel-plated				Order number	Order number
Material	Length [mm]	Usable length [mm]	Key bow	Works keys	Change activators
High-strength brass	150	100	Oval	70075W0001	70075S0032
High-strength brass	80-360	30-310	Oval	70075Wxxxx	70075Sxxxx

Keys				Option code
Material	Length, Ø stem [mm]	Usable length [mm]	Key bow	Option code
User double-bitted keys, nickel-plated				
Die-cast	120, Ø 6/7	70	Mauer	DSD120
Die-cast	150, Ø 6/7	100	Mauer	DSD150
Die-cast	164, Ø 5.9/7	114	Mauer	DSD164
High-strength brass	150, Ø 5.9/7	100	Oval	DSS150
High-strength brass	80-360, Ø 5.9/7	30-310	Oval	DSSxxx
User double-bitted keys with foldable mechanism, nickel-plated				
High-strength brass	120-360, Ø 5.9/7	70-310	Oval	DGSxxx
User double-bitted keys with detachable mechanism, nickel-plated				
High-strength brass	120-360, Ø 5.9/7	70-310	Oval	DESxxx
Detachable bit part, nickel-plated (only for use in conjunction with 86124 Servant K)				
High-strength brass	63, Ø 5.6/5.8/7			DUS063





Safe Locks: Time Delay Key Locks

Our mechanical double-bitted lock systems equipped with time delay functions offer a special protection against hold-ups. They fulfil requirements of time-limited entry while being operated mechanically.

Overview



Varios TD-LED

Electronic time delay, 9 levers, aluminium fitting with LED, standard footprint, changeable, dead bolt, latch bolt (opt.)



Varios TD-LCD

Electronic time delay, 9 levers, aluminium fitting with LCD, standard footprint, changeable, dead bolt, latch bolt (opt.)



Novum TD

Mechanical time delay, 7 levers, latch bolt

Order code

P

82111

52

82161

54

51

85074

56

82111 Varios TD-LED

Changeable lock with electronic time delay and dead bolt.
Approx. 390,000 theoretical variations.
Standard footprint.

The time delay is activated by the user key. LED and acoustic signals indicate the time delay and the opening window. The lock system is especially designed for the protection against hold-ups.

The lock can be supplied in user or works locking mode.



52

Basic Features

Lock

Varios TD-LED - standard

Functions

Time delay 1-10 minutes (in 1 minute steps adjustable)
Opening window 2 minutes (preset)
Low voltage detection
Optical (LED) and acoustical operation support

Power supply

1 x 9 volt block battery (not included in delivery)

Fitting

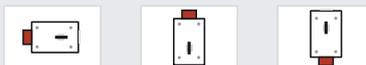
Aluminium EV 1 anodised
2 LEDs and buzzer
Connection cable with plug, 120 mm
3 cover caps, plastic
Integrated battery case
Admissible mounting positions: horizontal or vertical

Lock

Changeable lock, change initiation via slide unit at the back of the lock
9 levers, electrolytic galvanised steel
Key retained when in open position
Die-cast lock case and bolt, surface treated, throw 12 mm
Electromagnetic bolt release
Integrated rotary switch for setting of time delay
Weight approx. 720 g

Admissible mounting positions

Right hand lock, opening clockwise



Order code

82111

Options & Accessories

Options

Lock with latch bolt
Supplied in works locking mode

Accessories

Mounting plate 2 mm thick, with 4 M5 threaded pins, slotted nuts and securing rings
9 volt alkaline block battery

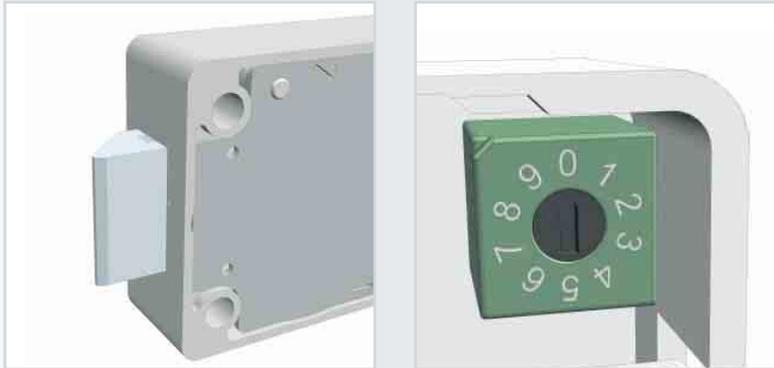
Option code

SFR
AWS

Order number

3 118 000 120
0 516 000 000

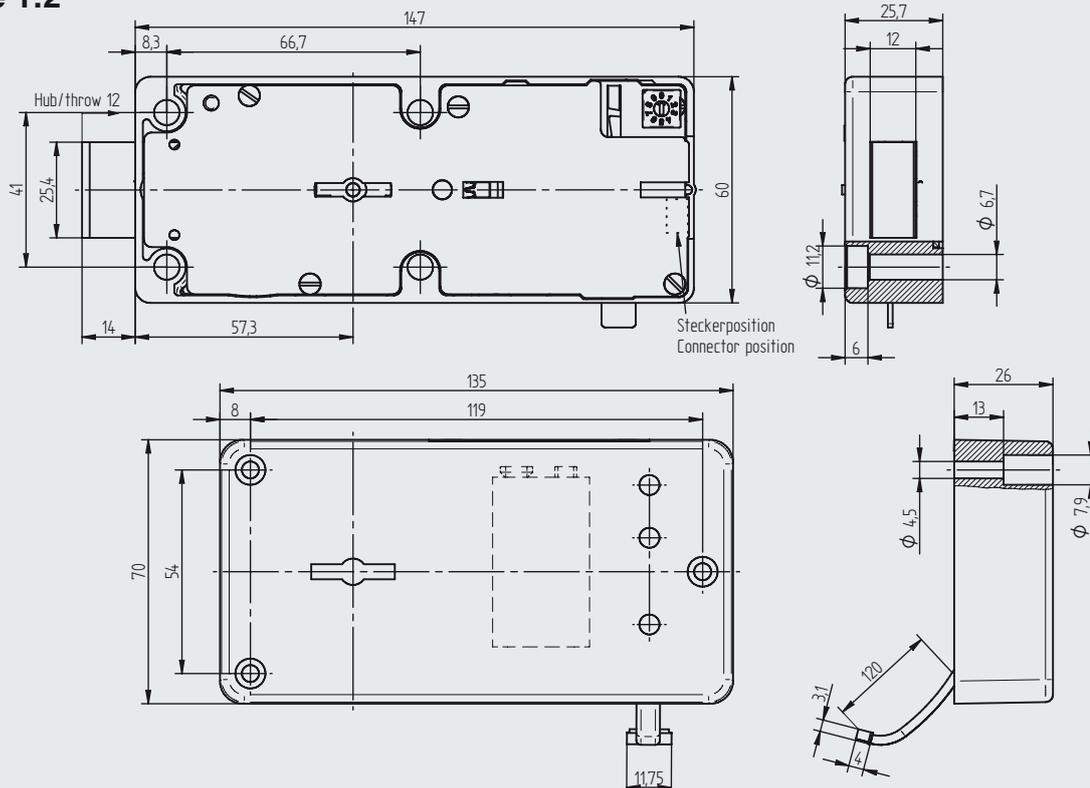
82111 Varios TD-LED



-  Lock, fitting and keys with oval bow
-  Lock with latch bolt
-  Integrated rotary switch

Works keys, nickel plated				Order number
Material	Length [mm]	Usable length [mm]	Key bow	
Brass	90	20	Oval	70160S0015 70160S0013
Brass	150	80	Square	
Keys				Option code
Material	Length, Ø stem [mm]	Usable length [mm]	Key bow	
User double-bitted keys, nickel-plated				DSM090 DSM135 DSM150
Brass	90, Ø 6	20	Oval	
Brass	135, Ø 6/7	65	Oval	
Brass	150, Ø 5.6	80	Square	

Scale 1:2



82161 Varios TD-LCD

Changeable lock with electronic time delay and dead bolt.
Approx. 390,000 theoretical variations.
Standard footprint.

The time delay is activated by the user key. A countdown display (LCD) and acoustic signals indicate the time delay. The lock system is especially designed for the protection against hold-ups.

The lock can be supplied in user or works locking mode.



54

Basic Features

Lock

Varios TD-LCD - standard

Functions

Time delay 1-10 (in 1 minute steps adjustable), 15, 20, 30, 45, 60, 99 minutes
Opening window 1-16 minutes (in 1 minute steps adjustable)
Low voltage detection
Countdown display (LCD) and acoustical operation support

Power supply

2 x 9 volt block batteries (batteries not included in delivery)

Fitting

Aluminium EV 1 anodised
LCD and buzzer
Connection cable with plug, 390 mm
4 cover caps, plastic
Integrated battery case
Admissible mounting position: horizontal

Lock

Changeable lock, change initiation via slide unit at the back of the lock
9 levers, electrolytic galvanised steel
Key retained when in open position
Die-cast lock case and bolt, surface treated, throw 12 mm
Electromagnetic bolt release
External rotary switch box for setting of time delay and opening window
Weight approx. 720 g

Admissible mounting positions

Right hand lock, opening clockwise



Options & Accessories

Options

Lock with latch bolt
Supplied in works locking mode
Admissible mounting position: fitting and lock vertical,
right hand lock, opening clockwise



Accessories

Mounting plate 2 mm thick, with 4 M5 threaded pins, slotted nuts and securing rings
9 volt alkaline block battery

Order code

82161

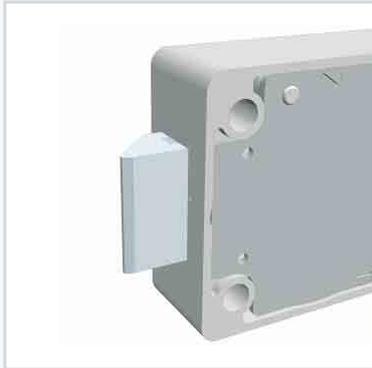
Option code

SFR
AWS
SBS

Order number

3 118 000 120
0 516 000 000

82161 Varios TD-LCD



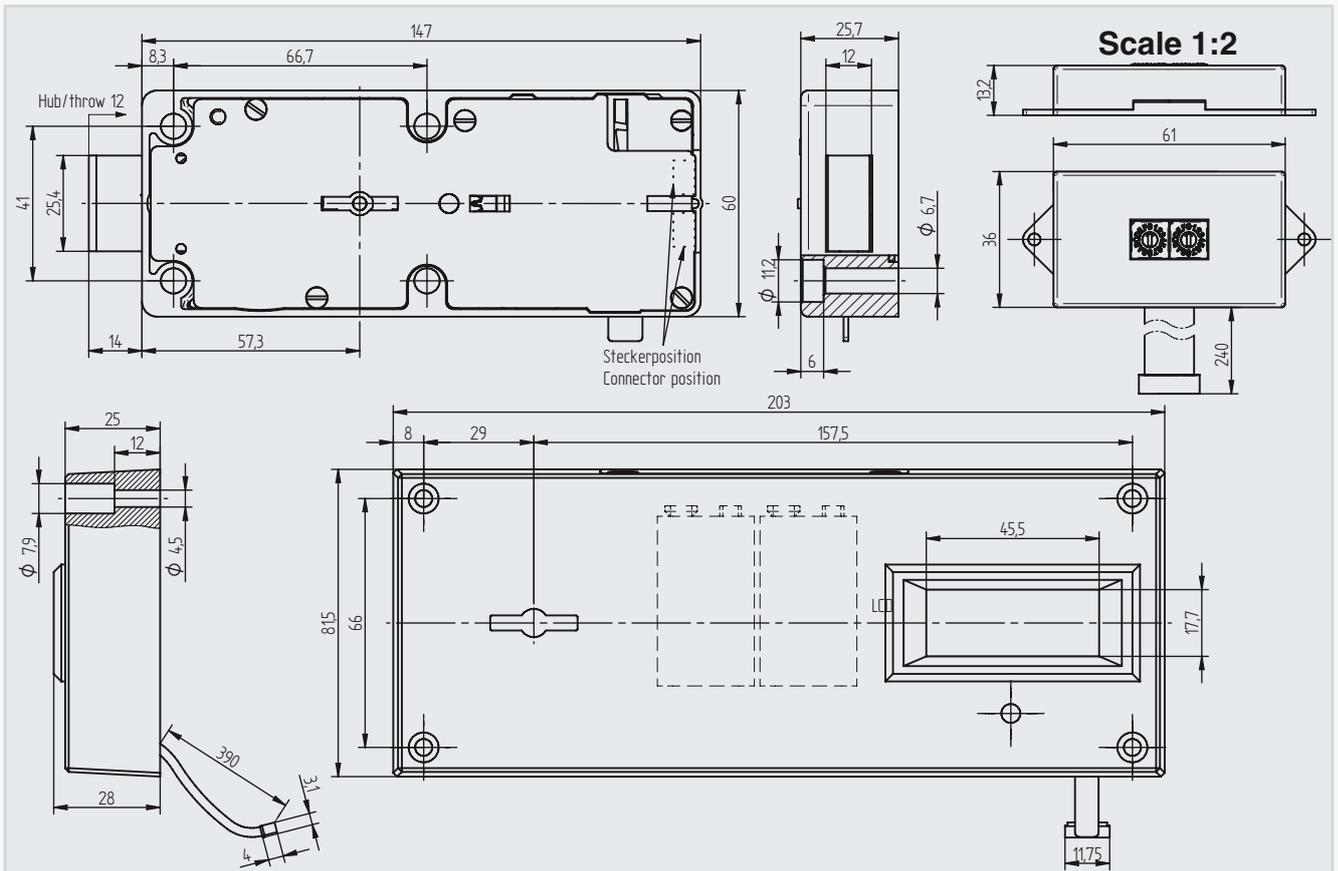
-  Lock, fitting and keys with oval bow
-  Lock with latch bolt
-  External rotary switch box

Works keys, nickel plated			
Material	Length [mm]	Usable length [mm]	Key bow
Brass	90	20	Oval
Brass	150	80	Square

Keys			
Material	Length, Ø stem [mm]	Usable length [mm]	Key bow
User double-bitted keys, nickel-plated			
Brass	90, Ø 6	20	Oval
Brass	135, Ø 6/7	65	Oval
Brass	150, Ø 5.6	80	Square

Order number
70160S0015
70160S0013

Option code
DSM090
DSM135
DSM150



85074 Novum TD

Lock with mechanical time delay and latch bolt.

Approx. 117,000 theoretical variations.

The time delay is activated by the user key. An electronic buzzer signals the opening window.



56

Basic Features

Lock
Novum TD - standard

Functions
Mechanical time delay 1-15 minutes (continuously adjustable)
Opening window approx. 30 seconds ± 10 seconds
Acoustical operation support

Power supply
1 x 9 volt block battery for electronic buzzer (battery included in delivery)

Lock
7 levers, chrome-nickel steel
Key retained when in open position
Lock case steel, surface treated
Latch bolt brass, throw 12 mm
Integrated battery case
Weight approx. 1,600 g

Admissible mounting positions
Right hand lock, opening clockwise



Order code
85074

Options, Accessories & Keys

Options
Key guide projecting 10 mm, brass, nickel-plated, Ø 29 mm
Key guide projecting 20 mm, brass, nickel-plated, Ø 29 mm
Key guide projecting 30 mm, brass, nickel-plated, Ø 29 mm

Accessories
Signal lamp with housing, external optical operation support, signal lamp with housing,
connection cable 1 m, plug
9 volt alkaline block battery

Option code
SFM010
SFM020
SFM030

Order number
3 118 000 050

0 516 000 000

Keys				
Material	Length, Ø stem [mm]	Usable length [mm]	Key bow	
User double-bitted keys, nickel-plated				
Steel	75, Ø 5.5	36	Oval	

Option code

DST075

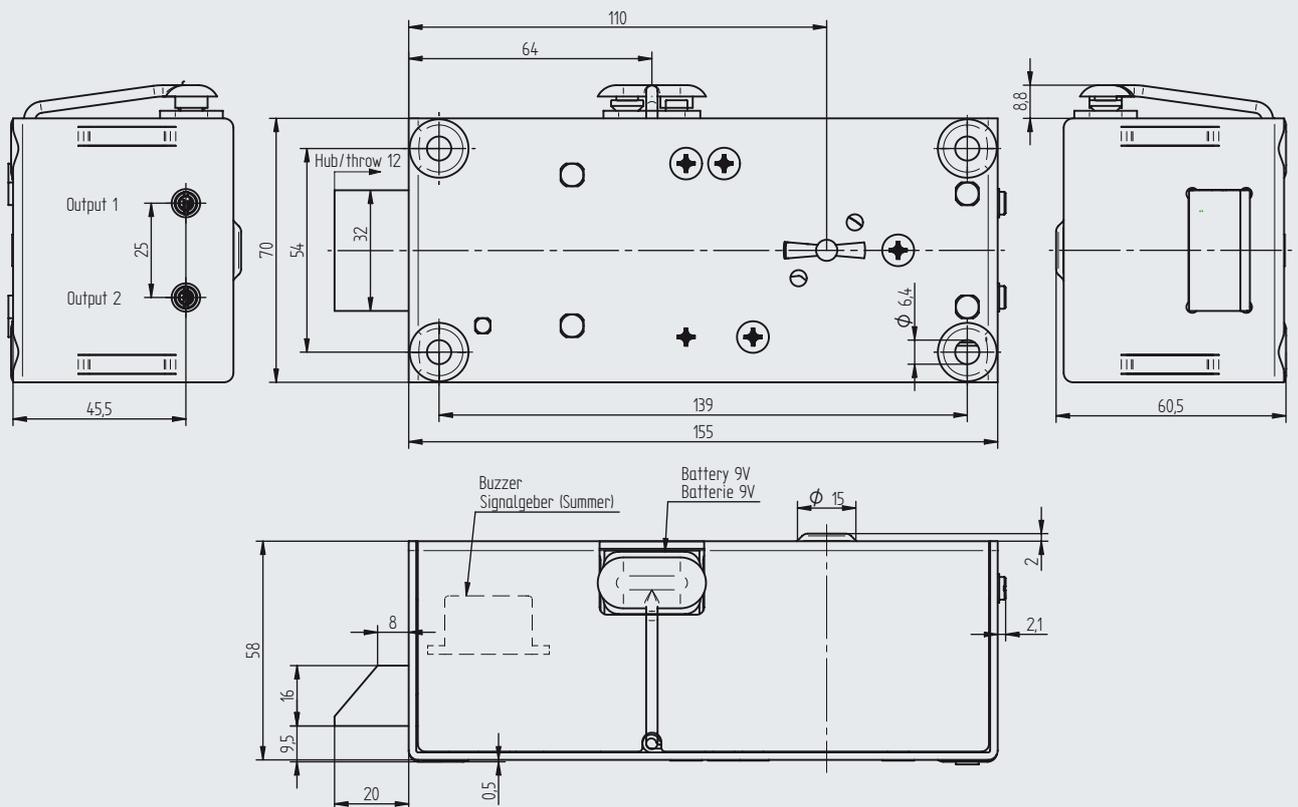
Keys in further lengths on request

85074 Novum TD



-  Lock and keys with oval bow
-  Lock with key guide
-  Signal lamp

Scale 1:2





58

Safe Locks: Mechanical Combination Locks

If you prefer the traditional and well-proven wheel technology, we recommend our mechanical combination locks. This group of products is suitable for all products up to resistance class V.

Overview



Ilco A 673

EN 1300 A, VdS-CI.1, UL2 - 3 wheel combination lock
Standard footprint, changeable, dead bolt, die-cast bolt and drop lever



Ilco 673

EN 1300 A, VdS-CI.1, UL2 - 3 wheel combination lock
Standard footprint, changeable, dead bolt, bolt and drop lever brass



Ilco 685

EN 1300 B, VdS-CI.2, UL2M - 3 wheel combination lock
Standard footprint, changeable, dead bolt, bolt and drop lever brass



Ilco 684

EN 1300 B, VdS-CI.2, UL2M - 4 wheel combination lock
Standard footprint, changeable, dead bolt, bolt and drop lever brass

Order code

P

80041

60

80042

61

80044

62

80051

63

80041 Ilco A 673

Changeable 3 wheel combination lock with dead bolt for safes CEN 0-II.

Approx. 1 million theoretical variations.

Standard footprint.

Die-cast bolt and drop lever.

Change is initiated at the back of the lock using a change activator.



60

Basic Features

Lock
Ilco A 673 - standard

Approvals/Certificates
EN 1300 A, VdS class 1, UL 2

Specifications
3 wheels
Separate change and opening marking
Change activator steel, 70 mm (included in delivery)
Integrated relocker: bolt blocking in case of manipulation of the lock cover
Die-cast lock case, bolt and drop lever, throw 8.7 mm
Drive cam with thread UNS 5/16" - 40
Spline key, suitable for all Ilco dial & ring combinations/spindles
Weight approx. 520 g

Admissible mounting positions
Right hand or left hand lock (upside down mounting), opening clockwise



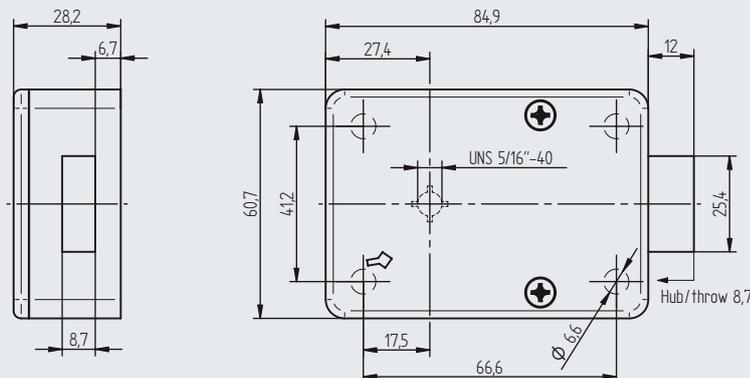
Order code
80041

Options

Options
Spline key, suitable for all Kaba Mauer dial & ring combinations/spindles

Option code
SPT

Scale 1:2



Der Keil aus dem Lieferumfang ist für die Montage der Spindeln/Garnituren "Ilco" geeignet.
Bei Verwendung anderer Garnituren Spezial-Keil verwenden oder abprüfen.
Supplied spline key can be used for "Ilco" spindles/dials.
In case of usage of other spindles/dials a special spline key has to be used, or the usage has to be checked.



80042 Ilco 673

Changeable 3 wheel combination lock with dead bolt for safes CEN 0-II.

Approx. 1 million theoretical variations.

Standard footprint.

Bolt and drop lever brass. Lock case surface treated.

Change is initiated at the back of the lock using a change activator.

Basic Features

Lock
Ilco 673 - standard

Approvals/Certificates
EN 1300 A, VdS class 1, UL 2

Specifications
3 wheels
Separate change and opening marking
Change activator steel, 70 mm (included in delivery)
Integrated relocker: bolt blocking in case of manipulation of the lock cover
Lock case brass, surface treated
Bolt and drop lever brass, throw 8.7 mm
Drive cam with thread UNS 5/16" - 40
Spline key, suitable for all Ilco dial & ring combinations/spindles
Weight approx. 520 g

Admissible mounting positions
Right hand or left hand lock (upside down mounting), opening clockwise



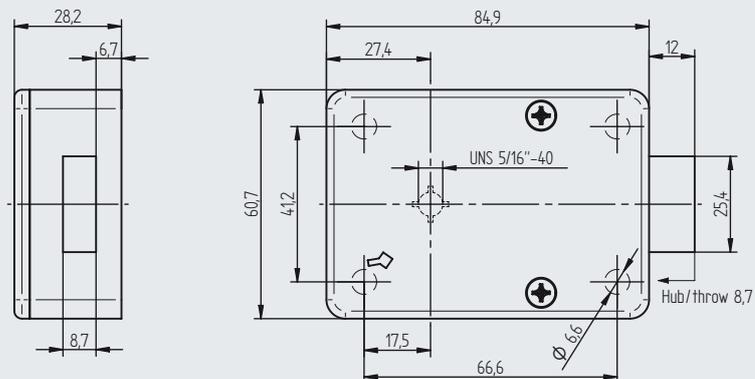
Options

Options
Spline key, suitable for all Kaba Mauer dial & ring combinations/spindles

Order code
80042

Option code
SPT

Scale 1:2



Der Keil aus dem Lieferumfang ist für die Montage der Spindel/Garnituren "Ilco" geeignet.
Bei Verwendung anderer Garnituren Spezial-Keil verwenden oder abprüfen.

Supplied spline key can be used for "Ilco" spindles/dials.
In case of usage of other spindles/dials a special spline key has to be used, or the usage has to be checked.

80044 Ilco 685

Changeable 3 wheel combination lock with dead bolt for safes CEN III-V.

Approx. 1 million theoretical variations.

Standard footprint.

Bolt and drop lever brass. Lock case surface treated.

The lock is suitable for the installation on bolt works with movements. It ensures an unrestricted functioning under bolt pressure. The change is initiated at the back of the lock using a change activator.



62

Basic Features

Lock
Ilco 685 - standard

Approvals/Certificates
EN 1300 B, VdS class 2, UL 2M

Specifications
3 wheels
Separate change and opening marking
Change activator steel, 70 mm (included in delivery)
Integrated relocker: bolt blocking in case of manipulation of the lock cover
Die-cast lock case, surface treated
Bolt and drop lever brass, bolt with 2 M4 threads, throw 8.7 mm
Drive cam with thread UNS 5/16" - 40
Spline key, suitable for all Ilco dial & ring combinations/spindles
Weight approx. 570 g

Admissible mounting positions
Right hand or left hand lock (upside down mounting), opening clockwise



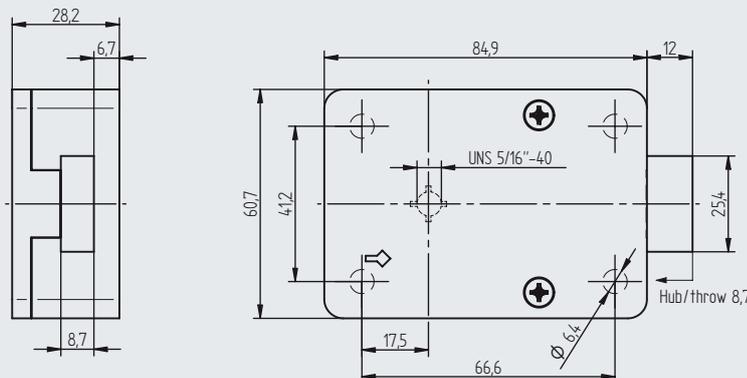
Options

Options
Spline key, suitable for all Kaba Mauer dial & ring combinations/spindles

Order code
80044

Option code
SPT

Scale 1:2



Der Keil aus dem Lieferumfang ist für die Montage der Spindeln/Garnituren "Ilco" geeignet.
Bei Verwendung anderer Garnituren Spezial-Keil verwenden oder abprüfen.

Supplied spline key can be used for "Ilco" spindles/dials.
In case of usage of other spindles/dials a special spline key has to be used, or the usage has to be checked.



80051 Ilco 684

Changeable 4 wheel combination lock with dead bolt for safes GEN III-V.

Approx. 100 million theoretical variations.

Standard footprint.

Bolt and drop lever brass. Lock case surface treated.

Change is initiated at the back of the lock using a change activator.

Basic Features

Lock
Ilco 684 - standard

Approvals/Certificates

EN 1300 B, VdS class 2, UL 2M

Specifications

4 wheels
Separate change and opening marking
Change activator steel, 70 mm (included in delivery)
Integrated relocker: bolt blocking in case of manipulation of the lock cover
Die-cast lock case, surface treated
Bolt and drop lever brass, throw 8.7 mm
Drive cam with thread UNS 5/16" - 40
Spline key, suitable for all Ilco dial & ring combinations/spindles
Weight approx. 570 g

Admissible mounting positions

Right hand or left hand lock (upside down mounting), opening clockwise



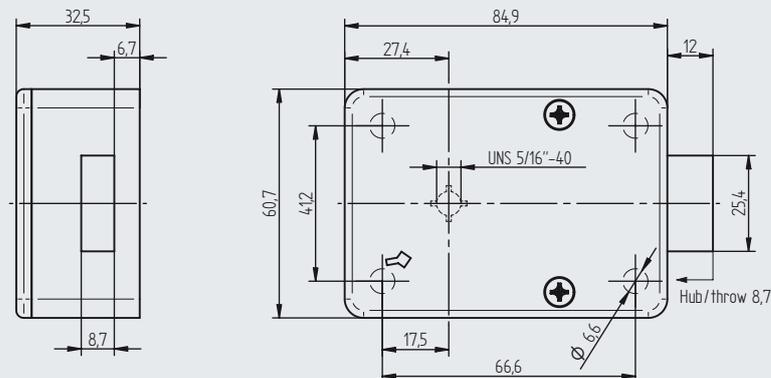
Options

Options
Spline key, suitable for all Kaba Mauer dial & ring combinations/spindles

Order code
80051

Option code
SPT

Scale 1:2



Der Keil aus dem Lieferumfang ist für die Montage der Spindeln/Garnituren "Ilco" geeignet.
Bei Verwendung anderer Garnituren Spezial-Keil verwenden oder abprüfen.

Supplied spline key can be used for "Ilco" spindles/dials.
In case of usage of other spindles/dials a special spline key has to be used, or the usage has to be checked.



Safe Locks: Electronic Combination Locks

The highest security, flexibility and comfort of use are offered by the Kaba electronic safe locks. These locks are used for particularly high requirements up to resistance class XIII for safes of all types.

Overview



Paxos® compact

EN 1300 B/C/D, ECB-S, VdS Cl. 2/3/4, BSI 7500, UL Type 1
Motor bolt, 26 users, full redundancy, time delay, audit 870 events



Questor

EN 1300 B*, ECB-S*, VdS Cl. 2*, CNPP a2p(E) Niv. B, UL Type 1* (* approvals pending)
Motor bolt, 3 operation modes, 18 users, unlimited OTCs, audit 4,800 events



SL 525/SL 523

EN 1300 B, ECB-S, VdS Cl. 2, CNPP a2p(E) Niv. B, UL Type 1* (* approval pending)
Motor bolt, 18 users, time lock functions, audit > 1,200 events



Cencon System 2000®

EN 1300 B, ECB-S, VdS Cl. 2, DNV, UL Type 1, cULus
3 modes, 30 users, unlimited OTCs, SmartKeys, audit 956 events, no batteries



Auditcon® 552

EN 1300 B, VdS Cl. 2, DNV, UL Type 1
94 (99) users, time lock functions, audit 400 events, no batteries



Auditcon® 252

EN 1300 B, VdS Cl. 2, DNV, UL Type 1
17 (20) users, time lock functions, audit 100 events, no batteries



Code-Combi B

EN 1300 B, ECB-S, VdS Cl. 2, GOST Cl. B, IMP Cl. B
2 users, time delay, mechanical redundancy



52 Series

EN 1300 B, VdS Cl. 2, DNV, UL Type 1
2 users, no batteries, time delay (opt.)



Code-Combi K

EN 1300 A, ECB-S, VdS Cl. 1, IMP Cl. A
2 users, time delay (opt.)



Code-Combi KL

1 user/1 master, coin or activation-key function (opt.)



LC Series

EN 1300 A, ECB-S, VdS Cl. 1, DNV, UL Type 1
2 users, slide bolt, time delay (opt.)

Order code

P

82751

66

82705

70

82701

72

82511

74

82522

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82542

76

82132

78

82563

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82021

82

82011

82

82571

85

82751 Paxos® compact

Where security is the top priority, reliability is essential. The high-security electronic locking system Paxos® compact sets new standards in reliability. The lock continually self diagnoses itself and reports to the user via the LC display. It has been statistically calculated that the system will operate for up to 15 million hours before a total failure.

With the lock-by-wire technology adapted from the aircraft industry, all data is transmitted by wire to the two independent security electronics in the lock casing. These drive a motor bolt via two motors, thereby releasing the door bolt to open the safe or vault door.

Existing safes and vault doors can be retrofitted with ease. With its modular design the system can be upgraded to suit changing customer requirements at any time.



66

Basic Features

Lock
Paxos® compact - standard

Approvals/Certificates

EN 1300 B/C/D, ECB-S, VdS class 2/3/4, VdS Blocking Element for IDS class C, VdS Switching Unit ("Blockschloss") for IDS class C, BSI 7500, SSV safes of directory I + II, SSV strongroom doors type II, UL Type 1

Code	Function	Opening
1 Master	Programming	No
1 Sub-Master "Code Management" (Mutation)	Programming of codes	No
1 Sub-Master "Time Management" (Time)	Programming of time functions	No
26 Users	Operation	Yes

Code functions

Single mode (1 x 6-8 digits)
Dual mode (2 x 6-8 digits)
Wrong try lockout after 5 false codes
Duress code (silent alarm)

Time lock functions

Time delay, 0-100 minutes
Duress time delay, 0-100 minutes
Confirmation window, 1-100 minutes

Input unit

(please specify option code)

Silicon key pad or dial knob
Black plastic housing
Integrated battery compartment
2 x 16 digit LC display, full text user guidance
Operator selectable display language
Buzzer
Connection cable 1 m (input unit - lock)

Audit

Record of 870 events

Power supply

6 x 1.5 volt Alkaline batteries LR6/AA

Lock

Bi-directional, motorised dead bolt
30 to 80 N moving force in both directions
Adjustable bolt travel 8.7, 12, 14, 15 mm
Bolt with 2 M4 threads and 1 M5 centric thread
Installation of 2 bolt shaft control switches required

Admissible mounting positions

Right hand/left hand lock
(upside down mounting)



Order code
82751

82751 Paxos® compact



-  Lock and key pad input unit
-  Dial knob input unit
-  2-lock operation

Options & Accessories

Options input unit

Key pad version

Precondition for: VdS class 2, ECB-S class B, EN 1300 B

Optional: integrated Legic proximity reader (precondition for accessory "switching unit VdS")

Dial knob version

Spy-proof limitation of display visibility angle, spy-proof code entry procedure

Precondition for: VdS classes 3/4, ECB-S classes C/D, EN 1300 C/D

Optional: integrated Legic proximity reader (precondition for accessory "switching unit VdS")

Options lock

Type A, precondition for: VdS classes 2/3, ECB-S classes B/C, EN 1300 B/C

Type D, precondition for: VdS class 4, ECB-S class D, EN 1300 D

Modular accessories (combinable)

2-lock operation

One input unit drives two locks. Parallel mode (each code can be used for lock 1 or lock 2).

Connection and options box

Terminals for inputs/outputs (audit, silent alarm), interface for audit log.

Options box required to install plug-in PCBs.

Time functions module (plug-in PCB A)

Time and date for display and audit, weekly time lock programmes, holiday periods, partial-locking, time lock interruption, pre-programmable DLST (summer/winter time changeover).

Options box required.

Mains operation module (plug-in PCB B)

Includes power supply, surge and EMC protection as well as interface for live audit and tamper alarm. Autonomy in case of power failure > 72 hours (1-lock operation without authorisation disabling and online-logging).

Options box and rechargeable battery pack required.

UPS connection module (plug-in PCB B/USV)

For connection to an existing uninterruptible Power Supply (UPS), with interface for live audit and tamper alarm.

Options box required.

Authorisation disabling module (plug-in PCB C)

Includes active tamper monitoring of the incoming line and potential decoupling of the external connection (key switch, modem, key pad etc.).

Options box and mains operation or UPS connection required.

Option code

TEE

DEE

Option code

STA

STD

Order code

82751/0061

82751Z0020

82751Z0021

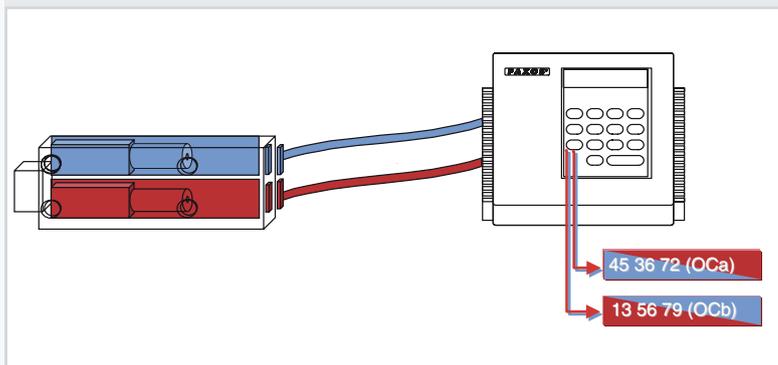
82751Z0005

82751Z0032

82751Z0022

82751 Paxos® compact

■ Redundant technology



68

Blocking element VdS

For combined use as a numeric combination system lock and as a blocking element in the controlled sequence for arming a danger detection system. Also available as an upgrade set. The blocking element VdS can only be combined with "time functions".

82751Z0030

Accessories (not combinable)

Time functions box

Time and date for display and audit, weekly time lock programmes, holiday periods, partial-locking, time lock interruption, pre-programmable DLST (summer/winter time changeover), interface for audit log.

Order code

82751Z0029

Event time box

Time and date for display and audit, pre-programmable DLST (summer/winter time changeover), interface for audit log.

82751Z0023

Switching unit VdS ("Blockschloss")

For combined use as a numeric combination code lock and as a switching unit for arming/disarming an intruder detection system using proximity material identification (Legic). Includes modular accessories "time functions", "mains operation", "UPS connection" and "authorisation disabling".

82751Z0033

Accessories

Rechargeable battery pack for option mains operation (Ni-MH), prerequisite for PCB B

Order code

82751Z0011

Upgrade kit blocking element VdS

Plug-in PCB B/UPS, installation material, installation instructions, mounting plate

For options box in plastic housing

For options box in metal housing

82751Z0031

82751Z0034

Cable for emergency access, with plug for connection of input unit, 1 m

Cable for emergency access, without plug for connection of input unit, 2 m

82751Z0108

82751Z0109

Door-position and door-bolt interface, 0.5 m

Supplementary cable set, additional cable for authorisation disabling, 10 m

82751Z0105

82751Z0510

Transponder badge standard, Paxos design, 10 pieces

Transponder badge white, blank, 10 pieces

82751ZM981

82751ZM980

Log printer DP 24, 100-240 VAC, 50/60 Hz, 0.2 A, incl. mains connection cable with Swiss plug

Preconfigured printer cable (DP 24), options box - printer, 1 m

Ribbon (DP 24), type: ERC-22, long life

Paper roll (DP 24)

Interface adapter "SD", adapts the current loop, interface to a standard RS 232 interface

82751Z0024

82751Z0119

82751Z0025

82751Z0026

82751Z0028

82705 Questor

The One Time Combination lock of the 52x product line is characterized by its Interactive Code System (ICS) for which a patent has been applied.

In OTQ Mode the user registers at the lock with his personal ID. The ICS ensures on site presence and generates a temporary, person-related and situational specific One Time Question code (OTQ). Only after telephonic forwarding of this OTQ to the dispatch centre and verification of the data, the user gets a One Time Code to open the lock from the dispatch centre. Every event is recorded to guarantee the maximum transparency.



70

Basic Features

Lock
Questor - standard

Approvals/Certificates (* pending)
EN 1300 B*, ECB-S*, VdS class 2*, CNPP a2p(E) Niveau B, UL Type 1*

Operation modes
The locks can be operated in one of three different modes.
Standard Mode: programmed codes
OTQ Mode: One Time Combination for access to a single lock ensuring on site presence
OTC Mode: One Time Combination for access on route planning

Code	Mode	Function	Opening
Unlimited OTCs	OTC	One time operation (opening)	Yes**
1 Master	OTC / OTQ / standard	Programming, managing, shelve	Yes***
2 Managers	Standard	Programming	No
18 Users	Standard	Operation	Yes
1 Courier	Standard	Operation, time delay override	Yes

** Only one time opening possible.
*** Only opening in standard mode possible.

Code functions	Mode
OTC with close code (Close Seal™), incl. battery status and lock/door activity feedback	OTC / OTQ
Temporary code validity	OTC / OTQ
Wrong try lockout after 4 false codes	OTC / OTQ / standard
Duress code (silent alarm)	OTC / OTQ / standard
Selectable code format	Standard
Single mode (1 x 6 digits)	Standard
Dual mode (2 x 6 digits)	Standard
Shelve function	Standard

Time lock functions	Mode
Time delay, 0-99 minutes	OTC / OTQ / standard
Duress time delay, 0-99 minutes	OTC / OTQ / standard
Opening window, 1-99 minutes	Standard
Non-return time delay, 1-120 minutes	OTC / OTQ
Automatic DLST (summer/winter time) changeover	OTC / OTQ / standard

Order code
82705

82705 Questor



-  Lock and input unit
-  ICS - Interactive Code System

Other functions

Low voltage detection
 Battery status display
 Non-erasable opening counter
 Error diagnosis, recognition and display
 Operator selectable display language

Audit

Record of more than 4,800 events
 Audit with time stamp

Alarm inputs/outputs

2 inputs (door contact or time delay bypass, remote disabling)
 2 outputs (bolt position, duress alarm)
 Selectable output polarity
 Additional trigger criteria programmable

Admissible mounting positions

Right hand/left hand lock
 (upside down mounting)

Input unit (*please specify option code*)

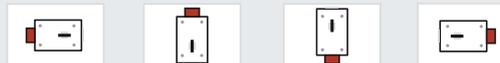
Metal housing in black or light grey
 Silicon key pad, green navigation keys
 LC display and buzzer
 Integrated battery compartment

Power supply

3 x 1.5 volt Alkaline batteries LR6/AA
 (included in delivery)

Lock

Motor bolt, 5 N moving force in both directions
 Adaptable bolt function: dead bolt or spring bolt (non-VdS) setting
 Bolt with 2 M4 threads
 Lock mounting set, incl. 3 M6 screws



Options, Software & Accessories

Options

Metal input unit, black
 Metal input unit, grey

Software

Activation software AS 270 (ICS/OTC activation)

Included in delivery: connection cable RS 232 - input unit, 2 m, USB dongle

Programming software AS 271 (lock settings)

Included in delivery: connection cable RS 232 - input unit, 2 m, USB dongle

Stand-alone management software AS 273 (one time code management) (OTC organisation, management up to 100 locks/50 users)

Included in delivery: 1 set of USB dongles

Software basic package

Activation software AS 270, programming software AS 271, management software AS 273

Server Management Software APhi 4000 on request

Accessories

Dongle -S- Supervisor, USB dongle for management software AS 273

Dongle -D- Dispatcher, USB dongle for management software AS 273

Option code

EES
 EEG

Order number

82705Z0008

82705Z0005

82705Z0006

82705Z0007

82705Z0001

82705Z0002

82701 SL 525

82702 SL 523

The electronic combination locks SL 525 and SL 523 are developed on the basis of the 'All-in-One' and easy-to-use concept. They offer a wide range of functions particularly needed in medium to high security applications.

Using state-of-the-art microelectronics, these safe locks provide a range of functions that is unparalleled. Main application fields are the financial and the retail industries, fast food restaurants as well as the domestic sector.

Unlike the SL 523, the SL 525 may not only be programmed by key pad, but also with a computer. This allows even better adjustment to the customers needs by modifying additional settings.



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General Features

Approvals/Certificates (* pending)

EN 1300 B, ECB-S, VdS class 2, CNPP a2p(E) Niveau B, UL Type 1*

Code	Function	Opening
1 Master	Programming, managing, shelve	No / Yes
2 Managers	Programming	Yes
18 Users	Operation	Yes
1 Courier	Operation, time delay override	Yes

Code functions

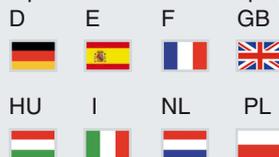
Selectable code format (ID+Pin or Pin+ID)
 Single mode (1 x 8 digits)
 Dual mode (2 x 8 digits)
 Code group lockout
 Shelve function
 Wrong try lockout after 4 false codes
 Duress code (silent alarm)

Time lock functions

Time delay, 0-99 minutes
 Duress time delay, 0-99 minutes
 Confirmation window, 1-99 minutes
 Automatic DLST (summer/winter time) changeover**
 Holiday periods, yearly repeating periods, weekly time lock
 Fast locking

Supplementary functions

Low voltage detection
 Battery status display
 Non-erasable opening counter
 Error diagnosis, recognition and display
 Remote/alarm disabling
 Operator selectable display language:



Audit

Record of more than 1,200 events
 Audit with time stamp

Alarm inputs/outputs	SL 525	SL 523
2 inputs		
- Door contact or time delay bypass	✓	✓ ***
- Remote disabling	✓ **	✓
2 outputs (bolt position, duress alarm)	✓	✓
Selectable output polarity	✓ **	
Additional trigger criteria programmable	✓ **	

** SL 525 only with programming software AS 254.

*** SL 523 only with input "time delay bypass".



180	AUSGANG 2	OFFEN	MON MAE-17-03	12:10
181	TUER	GESCHLOSS.	MON MAE-17-03	12:10
182	TUER	OFFEN	MON MAE-17-03	12:10
183	SCHLOSS	GESCHLOSS.	MON MAE-17-03	12:10
184	TUER	GESCHLOSS.	MON MAE-17-03	12:10
185	MASTER	AKZEPTIERT	MON MAE-17-03	12:10
186	REST. FENST	BEGINN	MON MAE-17-03	12:08
187	VERZOEGER.	ENDE	MON MAE-17-03	12:08
188	VERZOEGER.	BEGINN	MON MAE-17-03	12:07
189	MASTER	AKZEPTIERT	MON MAE-17-03	12:07
190	BEST. FENST	ENDE	MON MAE-17-03	11:03
191	BEST. FENST	BEGINN	MON MAE-17-03	11:01
192	VERZOEGER.	ENDE	MON MAE-17-03	11:01
193	VERZOEGER.	BEGINN	MON MAE-17-03	11:00
194	MASTER	AKZEPTIERT	MON MAE-17-03	11:00
195	TUER	OFFEN	MON MAE-17-03	11:00
196	TUER	GESCHLOSS.	MON MAE-17-03	10:56
197	TUER	OFFEN	MON MAE-17-03	10:56
198	TUER	GESCHLOSS.	MON MAE-17-03	10:53
199	TUER	OFFEN	MON MAE-17-03	10:53
200	TUER	GESCHLOSS.	MON MAE-17-03	10:35
201	TUER	OFFEN	MON MAE-17-03	9:38
202	TUER	GESCHLOSS.	MON MAE-17-03	9:38
203	TUER	OFFEN	MON MAE-17-03	9:38

82701 SL 525

82702 SL 523



SL 525 - lock and black input unit

SL 523 - light grey input unit

Extract from audit

Input unit *(please specify option code)*

Metal housing in black or light grey

Silicon key pad with navigation keys, LC display and buzzer

Integrated battery compartment, connection cable 500 mm (input unit - lock)

Power supply

3 x 1.5 volt Alkaline batteries LR6/AA (included in delivery)

Lock

Motor bolt, 5 N moving force in both directions, bolt with 2 M4 threads

Adaptable bolt function: dead bolt or spring bolt (non-VdS) setting

Lock mounting set, incl. 3 M6 screws

Admissible mounting positions

Right hand/left hand lock
(upside down mounting)



Lock

SL 523 - standard

Specifications

Built-in RS 232 interface for audit output, no programming by computer

Yellow navigation keys

Order code

82702

Lock

SL 525 - standard

Specifications

Built-in RS 232 interface for audit output and programming by computer

Blue navigation keys

Order code

82701

Options, Accessories & Software

Options

Metal input unit, black

Metal input unit, light grey

Option code

EES

EEG

Accessories

Cable for audit trail and programming by software

Order number

82501Z0006

Software

Programming software AS 254, runs on Microsoft® Windows® operating systems,
operator selectable language (D, E, F, GB, HU, I, NL, PL)

2 software bundles incl. connection cable and dongle are available:

LPT (parallel) dongle for copy protection

USB (serial) dongle for copy protection

82701Z0004

82701Z0006

82511 Cencon System 2000®

Utilizing the award-winning PowerStar™ technology, the totally self-powered ATM lock is designed to combat insider theft through the combined use of lock hardware, software and SmartKeys. The “One Time Combination (OTC)” is dispatched from a central location and cannot be reused at a later date, thus eliminating temptation.

The world-leading ATM producers install the Cencon as it offers the advantages and convenience of true stand-alone electronic ATM access. The unique software allows to control and monitor up to thousands of locks located at any location - without the need for hard-wiring.

In consideration of different access groups of the ATMs, the system offers working modes for bank personal, cash- replenishment and technicians.



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Basic Features

Lock

Cencon System 2000® - standard

Approvals/Certificates

EN 1300 B, ECB-S, VdS class 2, DNV, UL Type 1, cULus

Operation Modes

The locks can be operated in three different modes - individually or in combination.

- OTC FLM Mode: One Time Combination for First Line Maintenance personnel permits access to a single lock only with contacting the dispatch centre
- OTC Route Mode: One Time Combination for Route personnel (cash replenishers), permits access to a series of locks
- Bank Mode: programmed codes for Bank personnel

Order code

82511

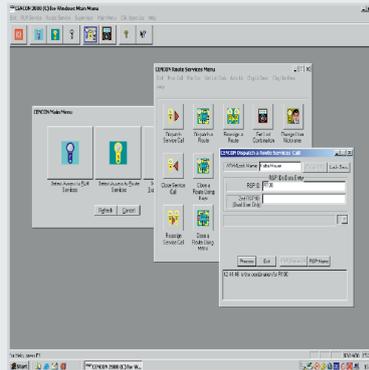
Code	Function	Opening
Unlimited OTCs in Cencon system	Operation (opening)	Yes
30 users in bank mode	Operation	Yes

NB: A user needs both a code (OTC or programmed code) and a SmartKey to access the lock.

Code functions	Mode
OTC with close code feed back (Close Seal™)	OTC
Single mode (1 x 6 digits)	OTC / bank
Dual mode (2 x 6 digits)	OTC / bank
Wrong try lockout after 5 false codes	OTC / bank
Duress code (silent alarm)	OTC / bank

Time lock functions	Mode
Individual time access	OTC / bank
Time delay, 0-99 minutes	Bank
Opening window, 1-20 minutes	Bank

82511 Cencon System 2000®



-  Lock and vertical input unit
-  Cencon key reader, 4-port
-  Software

Audit

Unlimited in the system
Record of 956 events in the lock
Record of 30 events in SmartKey

Alarm Connection

Duress alarm (silent alarm)
Micro switch for bolt monitoring
Alarm disabling function (Shunt)

Power supply

Internal generator to create power, no batteries required

Admissible mounting positions

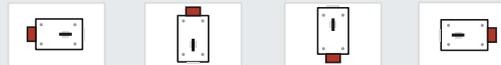
Right hand/left hand lock (upside down mounting), opening clockwise

Input unit

Plastic housing with tactile membrane key pad
Buzzer
SmartKey reader
3-digit LC display

Lock (please specify option code "spindle/cable")

Die-cast lock case and bolt
Dead bolt with 2 M4 threads, throw 8.7 mm
Lock mounting set, incl. 4 M6 screws and 4 1/4" WW screws



Options, Accessories & Software

Options

Without "Shunt"
Spindle/cable for door thickness up to 55 mm
Spindle/cable for door thickness up to 130 mm
Spindle/cable for door thickness up to 250 mm

Accessories

Cencon key reader, 4-port, for Cencon System 2000®
CenBank key reader, 2-port, for CenBank

SmartKey F for First Line Maintenance personnel, lock user (blue)
SmartKey R for Route personnel, lock user (yellow)
SmartKey D for Dispatcher, software user (black)
SmartKey S for Supervisor, software user (black)
SmartKey SS for Super Supervisor, software user (black)
SmartKey SA for Supervisor Audit, data transfer (red)

SmartKey B for Bank personnel, lock user (turquoise)
SmartKey A, additional log-on for CenBank (orange)

Software

Cencon software (software to run the system in OTC mode)

Implementation package based on Microsoft® Windows® for dispatching codes
Included in delivery: 1 PCI adapter card, 4-port key reader, 12 SmartKeys

CenBank software (software to run the system in bank mode)

Implementation package based on Microsoft® Windows® for bank application
Included in delivery: 2-port key reader, 6 SmartKeys

Option code

OST
WKN055
WKN130
WKN250

Order code

82510Z0018
82510Z0019

82510Z0020
82510Z0021
82510Z0022
82510Z0023
82510Z0024
82510Z0007

82510Z0009
82510Z0008

Order code

82510Z0016

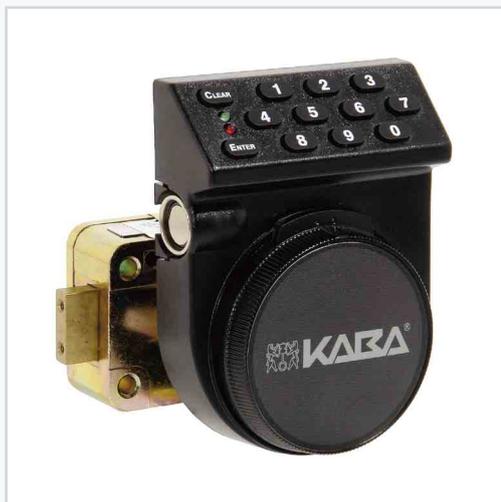
82510Z0017

82522 Auditcon® 552 82542 Auditcon® 252

Many leading safe manufacturers install Auditcon as it offers the advantages and convenience of true stand-alone electronic safe access. Utilizing the award-winning PowerStar™ technology, the Auditcon's security cannot be compromised by outside manipulation and provides unprecedented audit capability, making it an effective deterrent to internal theft.

The PowerStar™ technology eliminates lockouts due to dead batteries or facility power failures. No service costs arise from battery changes.

The totally self-powered Auditcon range is available with vertical or round housing.



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General Features

Approvals/Certificates

EN 1300 B, ECB-S, VdS class 2, DNV, UL Type 1

Codes	Auditcon® 552	Auditcon® 252	Functions	Opening
Super Master	1	1	Shelve	No
Master	1	1	Programming, managing, shelve	No
Manager (Supervisor)	5	3	Programming, managing	No
User	94 (99)*	17 (20)*	Operation	Yes
Courier **	9	1	Time delay override	No

* If code group lockout (shift work) is not selected.

** Time delay override user.

Code functions

Single mode/dual mode

Manager mode (Supervisor/subordinate mode)

Shelve function

Wrong try lockout after 5 false codes

Duress code (silent alarm)

Time lock	Auditcon® 552	Auditcon® 252	Functions
Time delay	✓	✓	0-99 minutes
Opening window	✓	✓	1-20 minutes
Timed lockout	✓		
Time windows	✓		
Time window lockout	✓		

General functions

Programmable by software

Audit	Auditcon® 552	Auditcon® 252	Functions
Events	400	100	Retrieved by SmartKey/Auditcon® software

82522 Auditcon® 552

82542 Auditcon® 252



-  Lock and vertical input unit
-  Round input unit
-  Duress alarm interface

Input unit *(please specify option code)*

Vertical or round housing
Plastic housing with tactile membrane key pad, 2 LEDs and buzzer

Power supply

Internal generator to create power, no batteries required (PowerStar™ technology)

Lock

Die-cast lock case and bolt
Dead bolt with 2 M4 threads, throw 8.7 mm
Micro switch for bolt monitoring
2 cables (for door thickness 1-80 mm or 81-220 mm)
1 spindle (for door thickness 1-220 mm)
Lock mounting set, incl. 4 M6 screws

Admissible mounting positions

Right hand/left hand lock (upside down mounting), opening clockwise



Lock

Auditcon® 252 - standard

Order code

82542

Lock

Auditcon® 552 - standard

Order code

82522

Options & Accessories

Options

Vertical input unit, black
Round input unit, black
Lock with slide bolt (only approved for UL Type 1 certificate)

	82542	82522
Vertical input unit, black	✓	✓
Round input unit, black	✓	✓
Lock with slide bolt (only approved for UL Type 1 certificate)	✓	✓

Option code

VEE
REE
SFR

Accessories

SmartKey (SA, red), for data upload/download
SmartKey (B, teal), for date/time upload
Time delay display
Duress alarm interface, adhesive mounting, cable approx. 290/1,200 mm

SmartKey (SA, red), for data upload/download	✓	✓
SmartKey (B, teal), for date/time upload	✓	✓
Time delay display	✓	✓
Duress alarm interface, adhesive mounting, cable approx. 290/1,200 mm	✓	✓

Order number

82510Z0007
82510Z0009
82510Z0032
82510Z0003

Software

Auditcon® software
(software to programme and to read out the audit)
Based on Microsoft® Windows®
Included in delivery: key reader with cable, SmartKey

Auditcon® software (software to programme and to read out the audit)	✓	✓
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Order number

82510Z0033

Auditcon software update

Auditcon software update	✓	✓
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82510Z0031

82132 Code-Combi B

Electronic combination lock with dead bolt and mechanical redundancy for safes CEN III-V.

Approx. 1 million variations. Standard footprint.

The mechanical redundancy offers maximum reliability: by removing the bar handle the hidden keyhole can be exposed and the lock can be opened with the double-bitted key.

The lock features power saving solenoid technology. Under defined conditions it is possible to achieve approx. 30,000 opening operations with one battery. There is a choice between plastic and polished, EV1 anodised aluminium input units.



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Basic Features

Lock

Code-Combi B - standard

Approvals/Certificates

EN 1300, ECB-S, VdS class 2, GOST class B, IMP class B

Codes

2 Users

Code functions

Single mode (1 x 6 digits)

Dual mode (2 x 6 digits)

Delegated dual mode (1 x 6 digits or 2 x 6 digits)

Wrong try lockout after 3 false codes (1, 2, 4, 8, max. 16 minutes)

Time lock functions

Time delay, 0-99 minutes

Opening window, 1-9 minutes

General functions

Low voltage detection

Acoustical and optical operation support, manipulation indication

Input unit (*please specify option codes "input unit" and "spindles"*)

Aluminium EV1 anodised, silicone key pad with LED and buzzer, die-cast turning knob, black, connection cable with plug 500 mm or

Plastic, basalt grey (RAL 7012), grey blue (RAL 5008), foil key pad with 2 LEDs and buzzer, connection cable with plug 500 mm

Power supply

1 x 9 volt block battery (not included in delivery)

Separate battery case (drawer), black plastic, battery cable 500 mm

Lock

Die-cast lock case and bolt

Electromagnetic bolt release, bolt with 2 M4 threads, throw 12 mm

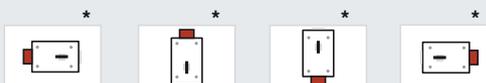
Mechanical redundancy by lever system: 11 levers,
double-bitted key retained when in open position

Weight approx. 1,450 g

Admissible mounting positions

Right hand/left hand lock (upside down mounting), opening clockwise

* NB: Not all mounting positions are admissible for all input units.



Order code

82132

82132 Code-Combi B



-  Input unit aluminium, separate battery case
-  Combined fitting aluminium, with hinged handle
-  Combined fitting aluminium, with lever handle

Options, Accessories & Keys

Options

Aluminium input unit*

Mounting position input unit

Horizontal (key pad right)



Horizontal (key pad left)



Vertical (key pad up)



Vertical (key pad down)



Mounting position lock

Horizontal, opening clockwise



Vertical, opening clockwise



Aluminium combined fitting with hinged handle*

Aluminium combined fitting with lever handle*

Mounting position input unit/lock

Input unit horizontal with hinged handle (key pad right)

Lock horizontal (bolt left)



Input unit horizontal with lever handle (key pad right)

Lock horizontal (bolt left)



Input unit vertical with lever handle (key pad up)

Lock vertical (bolt down)



Square spindle handle Max. usable length [mm]

Fittings with hinged handle lever handle

116
124
136
144

✓ ✓
✓ ✓
✓ ✓
✓ ✓

Option code

BAS*

TR

TL

TO

TU

W

S

BAK*

BAH*

TRL

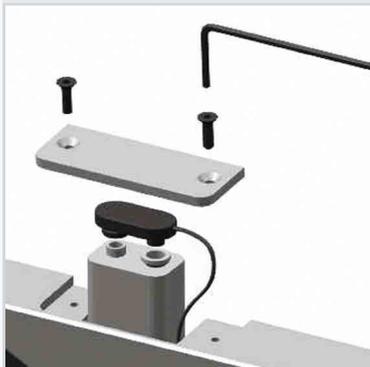
TRL

TOU

VKV116
VKV124
VKV136
VKV144

* Please specify besides the option code "input unit" also the partial codes for "mounting position". In case of "combined fittings" please specify also the additional partial code for "square spindle handle".

82132 Code-Combi B



- Integrated battery case, input unit aluminium
- Separate battery case, input unit plastic

80

Integrated battery case for aluminium input unit or combined fitting
Instead of separate battery case

IBF

Plastic input unit*

BKS*

Mounting position input unit/lock

Input unit horizontal (key pad right)
Lock horizontal (bolt left)



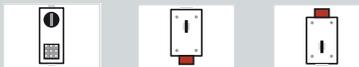
Input unit horizontal (key pad left)
Lock horizontal (bolt right)



Input unit vertical (key pad up)
Lock vertical (bolt down or up)



Input unit vertical (key pad down)
Lock vertical (bolt down or up)



TRL

TLR

TOS

TUS

* Please specify besides the option code "input unit" also the partial codes for "mounting position".

Square spindle input unit/lock

Square spindle length [mm]

Max. usable length [mm]
for aluminium input unit

Max. usable length [mm]
for plastic input unit

Option code

135
175
190
235

88.5
128.5
143.5
188.5

94
134
149
194

BEW135
BEW175
BEW190
BEW235

Accessories

Cheese-head screw, tin coated, DIN 84 - BSW 1/4" x 29 mm - 4.8, with securing rings
Mounting plate 2 mm thick, 4 M5 threaded bushings, with slotted nuts and securing rings
Distance plate 2 mm thick, suitable in bolt works
9 volt alkaline block battery

Order number

3 118 000 030
3 118 000 310
2 131 000 420
0 516 000 000

Keys

Material

Length, Ø stem
[mm]

Key bow

Max. usable length [mm]
for aluminium input unit

Max. usable length [mm]
for plastic input unit

Option code

Die-cast
Die-cast
Die-cast
High-strength brass
High-strength brass
High-strength brass

120, Ø 6/7
150, Ø 6/7
164, Ø 6/7
150, Ø 6/7
160, Ø 6/7
190, Ø 6/7

Mauer
Mauer
Mauer
Oval
Oval
Oval

59
89
103
89
99
129

66
96
110
96
106
136

DSD120
DSD150
DSD164
DSS150
DSS160
DSS190



82563 52 Series

The totally self-powered 52 Series does not need any batteries. The PowerStar™ technology eliminates lockouts due to dead batteries or facility power failures. No service costs arise from battery changes.



-  Lock and vertical input unit
-  Round input unit

Basic Features

Lock
52 Series - standard

Approvals/Certificates
EN 1300 B, VdS class 2, DNV, UL Type 1

Code	Function	Opening
1 Super Master	Shelve	No
2 Users	Operation	Yes

Functions

Single mode (1 x 6 digits)
Dual mode (2 x 6 digits)
Shelve function
Wrong try lockout after 5 false codes

Input unit (*please specify option code*)

Vertical or round input unit
Plastic housing with tactile membrane key pad
2 LEDs and buzzer

Admissible mounting positions

Right hand/left hand lock (upside down mounting), opening clockwise

Power supply

Internal generator to create power, no batteries required (PowerStar™ technology)

Lock

Die-cast lock case and bolt
Dead bolt with 2 M4 threads, throw 8.7 mm
Micro switch for bolt monitoring
2 cables (for door thickness 1-80 mm or 81-220 mm)
1 spindle (for door thickness 1-220 mm)
Lock mounting set, incl. 4 M6 screws



Options

Options

Vertical input unit, black
Round input unit, black
Lock with slide bolt (only approved for UL Type 1 certificate)
Time delay function (time delay, 0-99 minutes, opening window, 1-20 minutes)

Order code
82563

Option code
VEE
REE
SFR
T52

82021 Code-Combi K 82011 Code-Combi KL

Electronic combination lock with dead bolt.
Code-Combi K for safes CEN 0-II.

The Code-Combi K is a certified safe lock with approx. 1 million variations.
Two users can be programmed.

By contrast the Code-Combi KL for changing users offers approx. 10,000 variations. The user needs the appropriate 4-digit code to open and close the lock. This can be chosen differently every time it is locked. If required the lock can be opened at any time with an 8-digit master code. Application areas are hotel safes, cloakrooms and left luggage lockers.



82

General Features

Functions

Low voltage detection
Wrong try lockout after 3 false codes (1, 2, 4, 8, max. 16 minutes)
Acoustical and optical operation support, manipulation indication

Input unit

Plastic, basalt grey (RAL 7012), grey blue (RAL 5008)
Foil key pad with 2 LEDs and buzzer
Connection cable with plug
Device for emergency power supply
Weight approx. 100 g

Power supply

1 x 9 volt block battery (not included in delivery)

Lock

Die-cast lock case and bolt, throw 20 mm
Electromagnetic bolt release
Bolt prepared for 2 M4 threads (holes 3.1 mm)
Integrated battery case
Weight approx. 600 g

Admissible mounting positions

Right hand/left hand lock (upside down mounting), opening clockwise



* NB: These mounting positions are not admissible for the options "coin function" and "activation-key function".

Lock

Code-Combi K - standard (safe lock version)

Approvals/Certificates

EN 1300 A, ECB-S, VdS class 1, GOST class A, IMP class A

Specifications

2 user codes
Single mode (1 x 6 digits)

Order code

82021

Lock

Code-Combi KL - standard (locker/hotel lock version)

Specifications

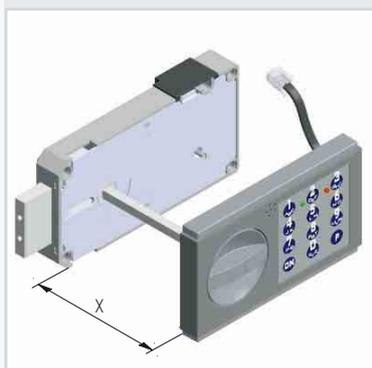
1 master code, 1 user code
Single mode (master 1 x 8 digits, user 1 x 4 digits)

Order code

82011

Please specify option code "adhesive label".

82021 Code-Combi K 82011 Code-Combi KL



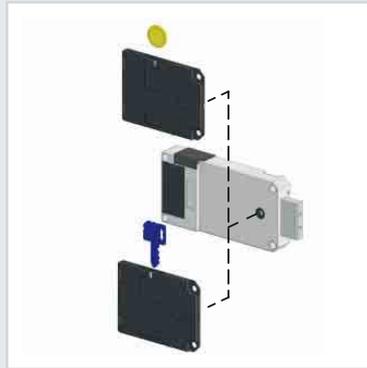
-  Lock and input unit
-  Mounting situation: max. usable length (x)
-  Battery clip for emergency power supply

Please specify option code "mounting position".

Mounting position	Max. usable length (distance lock - input unit)**					
	7 mm	17 mm	22 mm	32 mm	72 mm	122 mm
	TRL007	TRL017	TRL022	TRL032	TRL072	TRL122
 *	TRO007	TRO017	TRO022	TRO032	TRO072	TRO122
 *	TRU007	TRU017	TRU022	TRU032	TRU072	TRU122
 *	TLR007	TLR017	TLR022	TLR032	TLR072	TLR122
 *	TLO007	TLO017	TLO022	TLO032	TLO072	TLO122
 *	TLU007	TLU017	TLU022	TLU032	TLU072	-
	TOL007	TOL017	TOL022	TOL032	TOL072	TOL122
 *	TOR007	TOR007	TOR022	TOR032	TOR072	TOR122
	TUL007	TUL017	TUL022	TUL032	TUL072	TUL122
 *	TUR007	TUR017	TUR022	TUR032	TUR072	TUR122
 *	TUO007	TUO017	TUO022	TUO032	-	-

* NB: These mounting positions are not admissible for the coin function and for the activation-key function (see options).
** Further lengths are available on request.

82021 Code-Combi K 82011 Code-Combi KL



- Lock with 3-way closure
- Coin and activation-key function

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Options & Accessories

Options

- Lock case and bolt surface treated
- Lock with 3-way closure
- Bolt with 2 M4 threads
- Blocking drive pin (for bolt work 84031 with accessories "blocking slide")

	82021	82011
Lock case and bolt surface treated	✓	✓
Lock with 3-way closure	✓	✓
Bolt with 2 M4 threads	✓	✓
Blocking drive pin (for bolt work 84031 with accessories "blocking slide")	✓	
Version time delay	✓	

Version time delay

- Time delay, 0-99 minutes,
- opening window, 1-9 minutes,
- 2 user codes, single mode (1 x 6 digits),
- dual mode (2 x 6 digits),
- delegated dual mode (1 x 6 digits or 2 x 6 digits)

Functions

- Coin function (for 1 EUR coin, coin as pledge)
- Coin function (for 2 EUR coin, coin as pledge)
- Coin function for further currencies and jetons on request
- Activation-key function incl. activation-key (activation-key as a pledge)

Adhesive labels

- Adhesive label: German operating instructions for standard version
- Adhesive label: German operating instructions for coin function
- Adhesive label: German operating instructions for activation-key function
- Adhesive label: English operating instructions for standard version
- Adhesive label: English operating instructions for coin function
- Adhesive label: English operating instructions for activation-key function

Accessories

- Screw set: 2 cheese head screws, tin coated, DIN 84 - BSW 1/4" x 29 mm - 4.8,
- 2 cheese head screws, tin coated, DIN 84 - BSW 1/4" x 32 mm - 4.8, securing rings
- Mounting plate 2 mm thick, 4 M5 threaded bushings, with screw nuts and securing rings
- Mounting plate 2 mm thick with manganese steel plate 1.5 mm thick, with 4 M5 threaded bushings, screw nuts and securing rings
- 9 volt alkaline block battery

Option code

- SRO
- SDS
- RGW2x4
- SSD
-
- OVB

- EUR001
- EUR002

- ASA

- ABD
- AMD
- AAD
- ABE
- AME
- AAE

Order number

- 3 118 000 510
-
- 3 118 000 140
- 3 118 000 130
-
- 0 516 000 000



82571 LC Series

Electronic combination lock with a unique spindleless slide bolt technology (Intellibolt™ technology). The surface treated slide bolt is retracted by opening the safe's bolt work once a valid code is entered.



The exclusive PowerSaver™ battery management uses the battery's energy in the most efficient way possible.

-  Lock and metal input unit, satin brass
-  Plastic input unit

Basic Features

Lock
LC - standard

Approvals/Certificates
EN 1300 A, ECB-S, VdS class 2, VdS class 1, DNV, UL Type 1

Code	Function	Opening
1 Super master	Shelve	No
2 Users	Operation	Yes

Functions
Single mode (1 x 6 digits), dual mode (2 x 6 digits)
Shelve function
Wrong try lockout after 5 false codes

Input unit (please specify option code)
Plastic or die-cast input unit with tactile membrane key pad
1 LED and buzzer
Integrated battery compartment
Connection cable 450 mm

Power supply
1 x 9 volt block battery (not included in delivery)

Lock
Slide bolt, die-cast with tempered steel inlet
Lock mounting set, incl. 4 screws

Admissible mounting positions
Right hand or left hand lock (upside down mounting), opening clockwise



Options

Options
Plastic input unit black, face plate black
Plastic input unit black, face plate satin brass
Plastic input unit black, face plate satin aluminium
Metal input unit, bright chrome
Metal input unit, bright brass
Time delay function (time delay, 0-99 minutes, opening window, 1-20 minutes, courier code)

Order code
82571

Option code
LXS
LXM
LXA
MXC
MXM
TLC



Locks for Deposit Boxes & Lockers: Mechanical Deposit Locks

These mechanical locks are primarily used for deposit boxes in banks. We offer a great number of solutions that can all be integrated in security concepts of different types.

Overview



Deposit 20

5 bank/6 rener levers, 2 keyholes, dead bolt



Deposit 10

4 bank/6 rener levers, 1 keyhole, dead bolt



E-lo-safe M

5 bank/8 rener levers, 1 keyhole, changeable bank lock, dead bolt



Deposit E

7 levers, single-bitted keys, dead bolt



Deposit D

7 levers, double-bitted keys, dead bolt



Combi-Deposit

3 combination knobs/6 levers, partly changeable lock, dead bolt, 3-way closure (opt.)

Order code

P

78011

88

78051

90

87

78056

92

78084

94

78086

95

81033

96

78011 Deposit 20

Safe deposit lock with dead bolt.

Bank lock 7,800, renter lock 46,700 theoretical variations.



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Basic Features

Lock
Deposit 20 - standard

Specifications

Bank lock

- 5 levers, electrolytic galvanised steel
- Bank key not retained

Renter lock

- 6 levers, electrolytic galvanised steel
- Renter key retained when in open position

Die-cast lock case and bolt, surface treated, throw 9.2 mm

Weight approx. 275 g

Admissible mounting positions

Right hand lock, opening clockwise



Order code
78011

Options, Accessories & Keys

Options

Prepared for mounting plate MP11D (with protection against dismounting)

Prepared for mounting plate MP11S (without protection against dismounting)

Key guide projecting 9.5 mm, die-cast, nickel-plated, Ø 25 mm, screwed

Key guide projecting 11.5 mm, die-cast, nickel-plated, Ø 25 mm, screwed

Renter key marked with number

Accessories

Mounting plate MP11D (with protection against dismounting), 2 mm thick, 2 pilot pins incl. knurled screw (only for use in conjunction with option MPD)

Mounting plate MP11S (without protection against dismounting), 2 mm thick, 3 pilot pins and M4 screw (only for use in conjunction with option MPS)

Knurled screw for mounting plate MP11D, 34 mm

Option code
MPD
MPS
SFD9.5
SFD11.5
RPN

Order number
3 102 200 150
3 118 000 320
1 260 603 450

Keys

Material	Length, Ø stem [mm]	Usable length [mm]	Key bow
Bank double-bitted keys with permutation number, nickel-plated			
Steel	60, Ø 5	21	Oval
Keys			
Material	Length, Ø stem [mm]	Usable length [mm]	Key bow
Renter double-bitted keys, nickel-plated			
Die-cast	62.5, Ø 5.1	24	Square

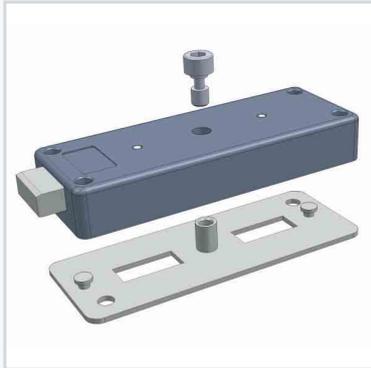
Order number

78011B0001

Option code

DSD063

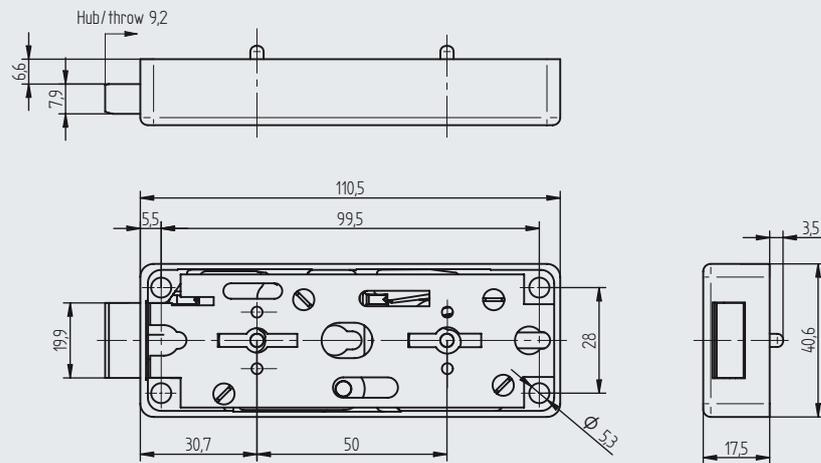
78011 Deposit 20



-  Lock and bank/renter keys
-  Lock with mounting plate MP11D
-  Lock with mounting plate MP11S

Scale 1:2

89



78051 Deposit 10

Safe deposit lock with dead bolt.

Bank lock 1,300, renter lock 46,700 theoretical variations.

Bank and renter lock are accessed through the same keyhole.



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Basic Features

Lock
Deposit 10 - standard

Specifications

Bank lock

- 4 levers, electrolyte galvanised steel
- Bank key not retained

Renter lock

- 6 levers, electrolyte galvanised steel
- Renter key retained when in open position

Die-cast lock case and bolt, surface treated, throw 12 mm

Weight approx. 410 g

Admissible mounting positions

Right hand lock, opening clockwise



Order code
78051

Options, Accessories & Keys

Options

Prepared for mounting plate MP51B

Renter key marked with number

Accessories

Mounting plate MP51A, 2 mm thick, with 2 pilot pins incl. screw M3

Mounting plate MP51B, 2 mm thick, with 2 pilot pins incl. screw M4

(only for use in conjunction with option MPB)

Option code
MPB
RPN

Order number
3 118 000 190
3 118 000 200

Keys

Material	Length, Ø stem [mm]	Usable length [mm]	Key bow
Bank double-bitted keys with permutation number, nickel-plated			
Steel	60, Ø 5	12	Oval
Steel	120, Ø 5	72	Oval
Renter double-bitted keys, nickel-plated			
Die-cast	62.5, Ø 5.1	20.5	Square
Die-cast	126, Ø 5.2/6	84	Square
Brass	60, Ø 5	18	Oval

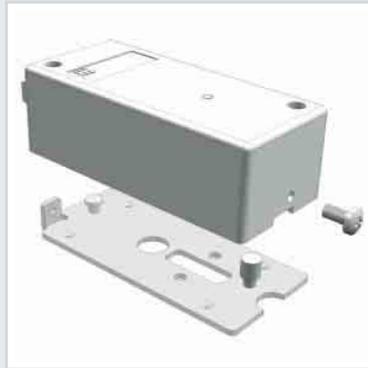
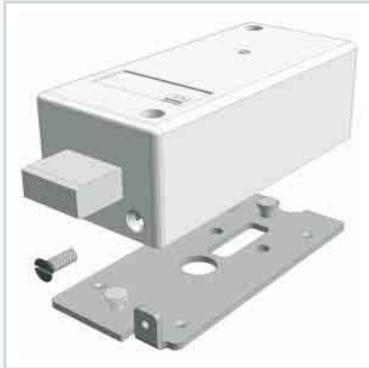
Order number

78051B0001
78051B0002

Option code

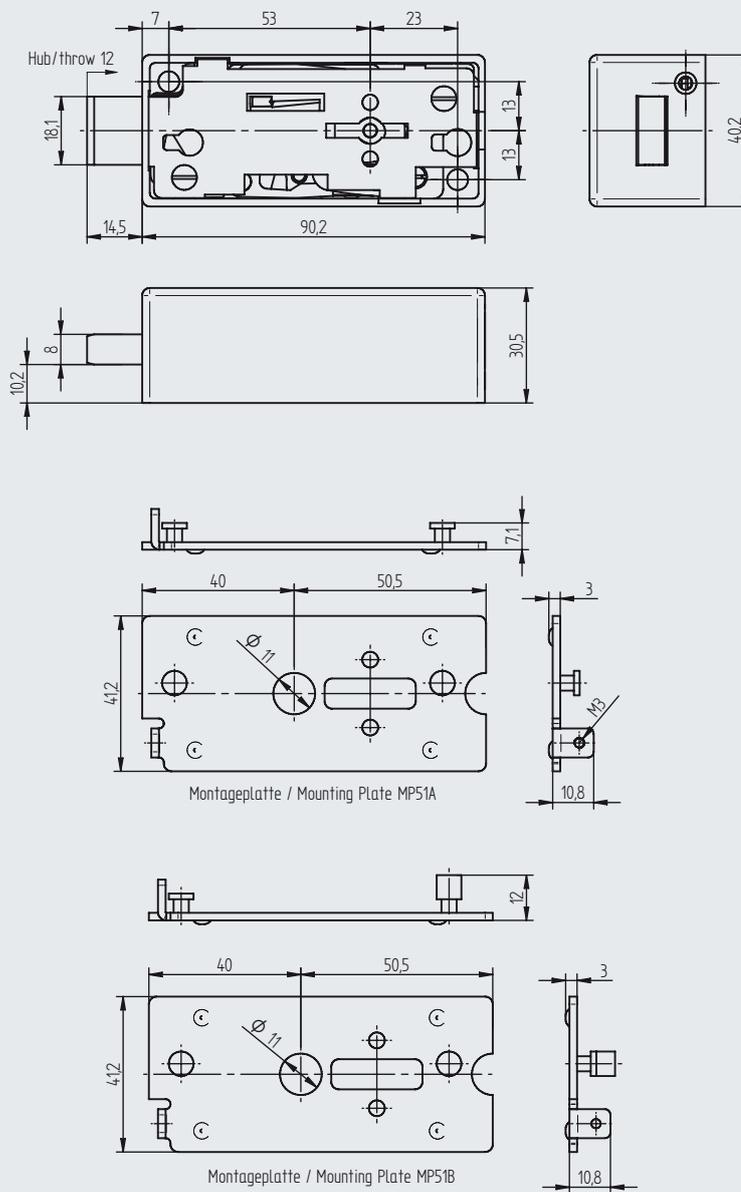
DSD063
DSD126
DSM060

78051 Deposit 10



-  Lock and bank/renter keys
-  Lock with mounting plate MP51A
-  Lock with mounting plate MP51B

Scale 1:2



78056 E-lo-safe M

Partly changeable safe deposit lock with dead bolt.

Bank lock 7,800, renter lock 280,000 theoretical variations.

Bank and renter lock are accessed through the same keyhole.

The key-change facility for the bank lock gives greater flexibility when configuring the installation and improves security. The change can be initiated with the door closed.

The bank lock can be supplied in a defined bank locking or in bank works locking mode.



92

Basic Features

Lock

E-lo-safe M - standard

Specifications

Bank lock

- Changeable lock
- 5 levers, electrolytic galvanised steel
- Bank key not retained

Renter lock

- 8 levers, electrolytic galvanised steel
- Renter key retained when in open position

Die-cast lock case and bolt, throw 12 mm

Weight approx. 480 g

Admissible mounting positions

Right hand lock, opening clockwise



Order code

78056

Options & Keys

Options

Lock case and bolt surface treated

Bank lock in works locking mode

Renter key marked with number

Option code

SRO

MVW

RPN

Bank works keys and change activators, nickel-plated

Material	Length [mm]	Usable length [mm]	Key bow
Brass	62.5	9	Oval
Brass	60	6.5	Oval

Order number	Order number
Works keys	Change activators
78054WB001	-
-	78054A0001

Keys

Material	Length, Ø stem [mm]	Usable length [mm]	Key bow
Bank double-bitted keys with permutation number, nickel-plated			
Brass	60, Ø 5.1	6.5	Oval
Keys			
Material	Length, Ø stem [mm]	Usable length [mm]	Key bow
Renter double-bitted keys, nickel-plated			
Die-cast	55.5, Ø 5	10	Mauer

Order number

78056B0001

Keys

Option code

DSD056

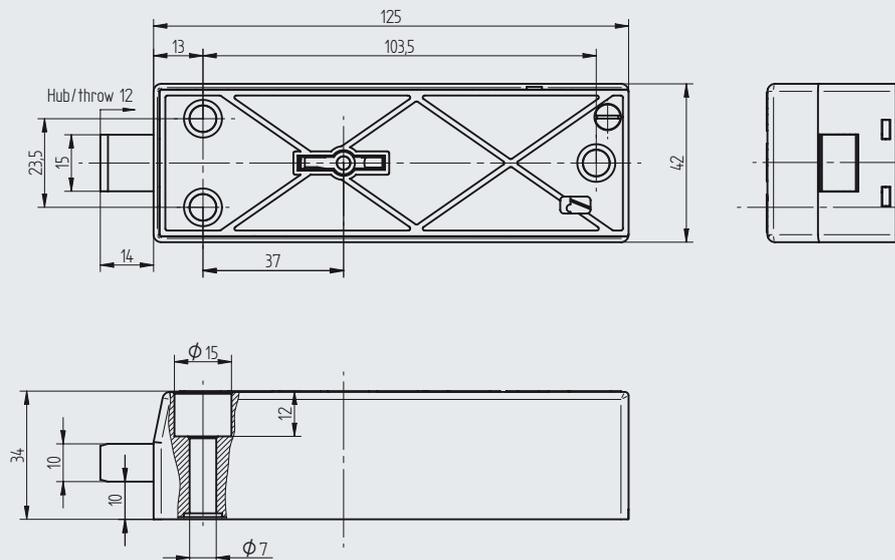
78056 E-lo-safe M



-  Lock and bank/renter keys
-  Change initiation of bank lock from the front
-  E-lo-safe series - electronically controlled

Scale 1:2

93



78084 Deposit E

Safe deposit lock with flat bolt.

Approx. 280,000 theoretical variations.



94

Basic Features

Lock
Deposit E - standard

Specifications

Single-bitted lock, 7 levers, surface treated
Key retained when in open position
Die-cast lock case and bolt, surface treated, throw 8 mm
Lock cover riveted
Weight approx. 70 g

Admissible mounting positions
Right hand lock, opening clockwise



Order code
78084

Options, Accessories & Keys

Options
Renter key marked with number

Accessories
Mounting plate 1.5 mm thick, salient, 2 threaded pins M3 x 20 mm

Option code
RPN

Order number
3 102 900 030

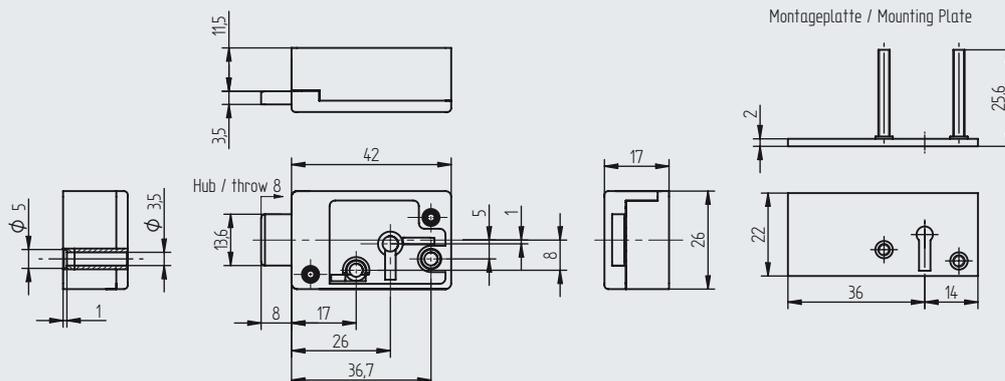
Keys

Material	Length, Ø stem [mm]	Usable length [mm]	Key bow
Die-cast	50, Ø 4	10	Square

Option code

ESD050

Scale 1:2





78086 Deposit D

Safe deposit lock with flat bolt.

Approx. 280,000 theoretical variations.

Basic Features

Lock
Deposit D - standard

Specifications

Double-bitted lock, 7 levers, surface treated
Key retained when in open position
Die-cast lock case and bolt, surface treated, throw 8 mm
Lock cover riveted
Weight approx. 70 g

Admissible mounting positions
Right hand lock, opening clockwise



Order code
78086

Options, Accessories & Keys

Options
Renter key marked with number

Accessories
Mounting plate 1.5 mm thick, salient, 2 threaded pins M3 x 20 mm

Option code
RPN

Order number
3102900030

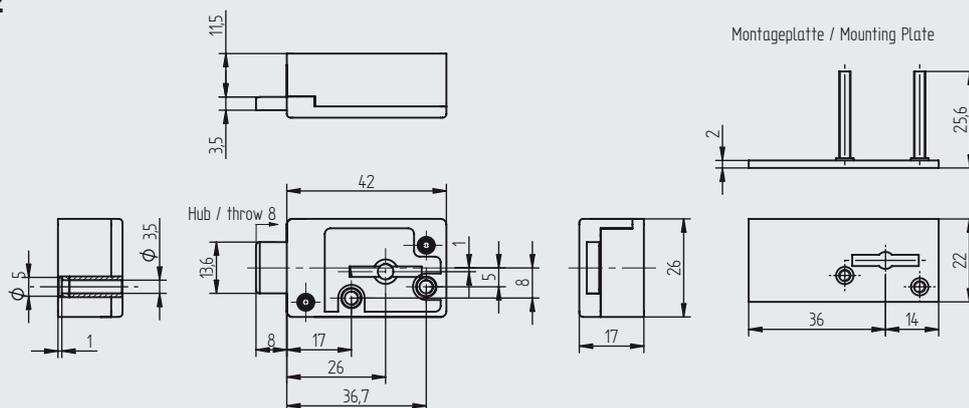
Keys

Material	Length, Ø stem [mm]	Usable length [mm]	Key bow
Renter double-bitted keys, nickel-plated			
Die-cast	50, Ø 4	10	Square

Option code

DSD050

Scale 1:2



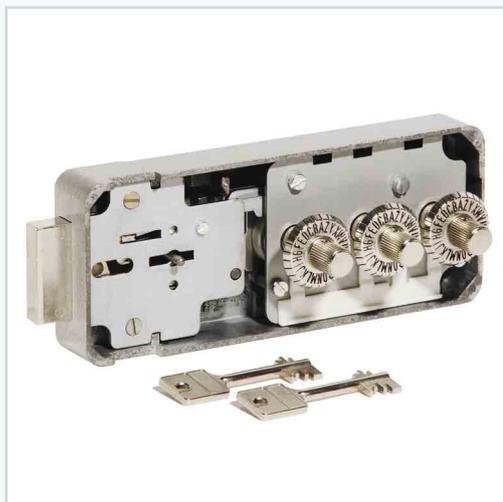
81033 Combi-Deposit

Partly changeable safe deposit lock with dead bolt.

Combination lock 17,600, key lock 46,700 theoretical variations.

This safe deposit lock combines the features of a combination lock and a key lock. Only after a valid combination has been set using the three knobs, the user can open the lock with the key. The combination is changed via a slide unit at the back of the lock.

3-way closure is available as an option.



96

Basic Features

Lock

Combi-Deposit - standard

Specifications

Combination lock

- 3 die-cast knobs, nickel-plated, 26 setting marks (A-Z) each
- Set combination can be seen at the back of the lock
- Combination change via slide unit at the back of the lock

Key lock

- 6 levers, electrolytic galvanised steel
- Key retained when in open position

Die-cast lock case and bolt, throw 11 mm

Suitable for doors from 7 to 15 mm

Weight approx. 1,150 g

Admissible mounting positions

Right hand lock, opening clockwise



Order code

81033

Options & Accessories

Options

Lock case and bolt surface treated

Lock with 3-way closure

Bolt with 1 M6 thread

Bolt with 2 M4 threads

Key guide projecting 2 mm, aluminium EV1 anodised, Ø 29.5 mm, riveted

Key guide projecting 3.5 mm, aluminium EV1 anodised, Ø 29.5 mm, riveted

Key guide projecting 8 mm, aluminium EV1 anodised, Ø 29.5 mm, riveted

Admissible mounting position of lock: vertical,
right hand lock, opening clockwise



Accessories

Mounting plate 3 mm thick, with 4 threaded bushings M6, screws and securing rings

- Optional with spot-welded manganese steel plate 1.5 mm thick

Mounting plate 3 mm thick, with 4 threaded bushings M6, screws and securing rings
(only for use in conjunction with option SDS)

- Optional with spot-welded manganese steel plate 1.5 mm thick
(only for use in conjunction with option SDS)

Manganese steel plate 1.5 mm thick

Option code

SRO

SDS

RGW1x6

RGW2x4

SFA002

SFA3.5

SFA008

SBS

Order number

3 118 000 380

3 118 000 160

3 118 000 150

3 118 000 370

2 130 001 410

81033 Combi-Deposit



- Lock and keys with square bow
- Lock with 3-way closure

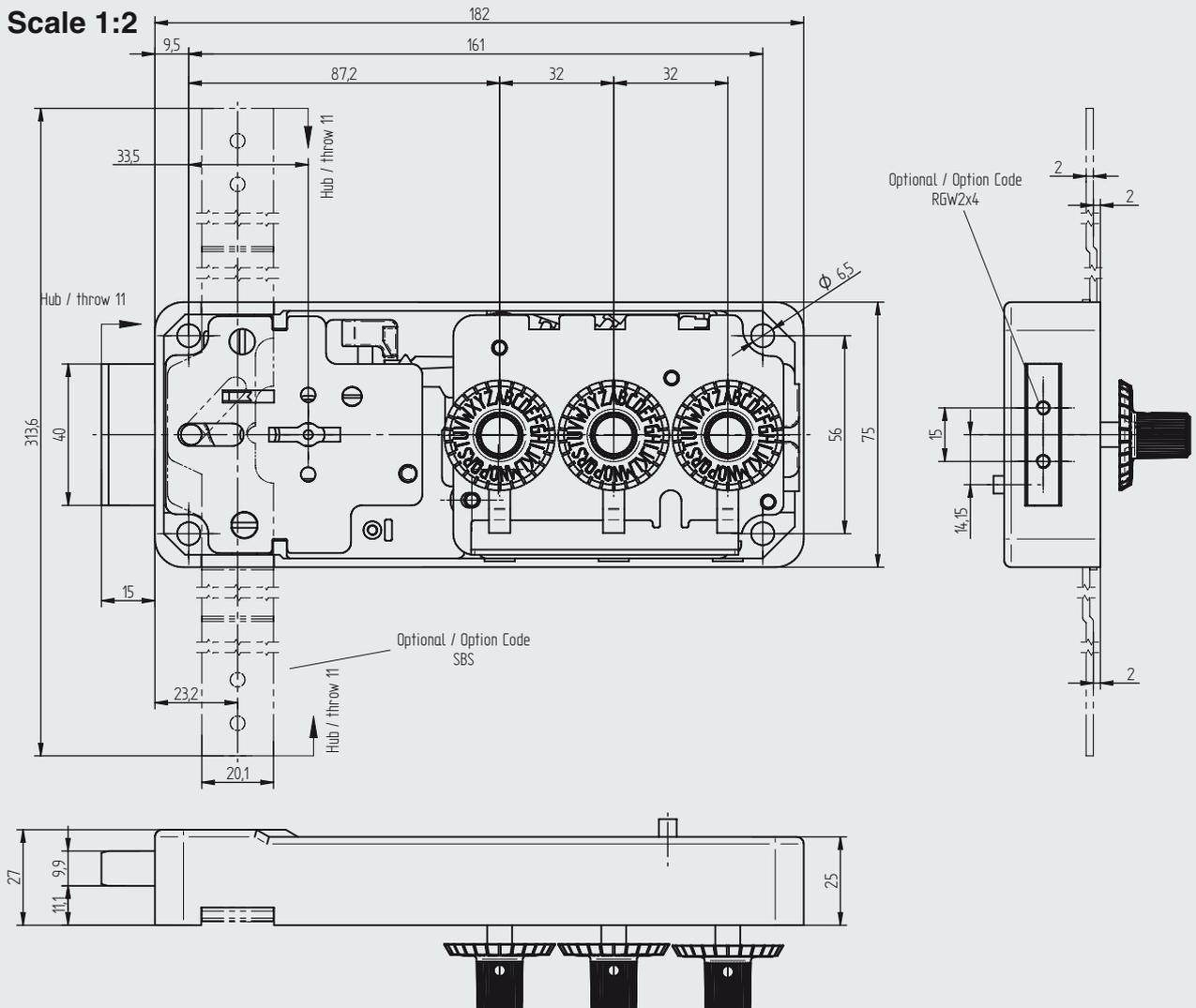
Keys

Keys Material	Length, Ø stem [mm]	Usable length [mm]	Key bow
Double-bitted keys, nickel-plated			
Die-cast	62.5, Ø 5.1	17.5	Square
Brass	60, Ø 5	15	Square

Option code

DSD063
DSM060

Scale 1:2





98

Locks for Deposit Boxes & Lockers: Electronically Controlled Deposit Locks

Our electronically controlled locks for deposit boxes use a unique, patented and well proven electromechanical system. Fields of application are computer controlled deposit boxes or self-service systems.

Overview



E-lo-safe S

Double-bitted renter lock, 8 levers, dead bolt



E-lo-safe D

Renter lock with turning knob, dead bolt



E-lo-safe C

Renter lock with profile cylinder, 5 pins, dead bolt

Order code

P

79101

100

79106

100

99

79111

100

79101 E-lo-safe S 79106 E-lo-safe D 79111 E-lo-safe C

Electronically controlled safe deposit locks with dead bolt.

The E-lo-safe series offers a range of locks with different control features within the same basic design.

In the versions 79101 and 79111 the bank authorisation is effected electronically by the cable interface of the central control. The customer authorisation is effected at the safe-deposit box by a double-bitted lock (version 79101) or a cylinder lock (version 79111). In the version 79106 the lock is operated by a turning knob. This version is mainly suitable for self-service stations where the complete release is authorised electronically.



100

General Features

Lock

Mechanical renter lock
Die-cast lock case and bolt, throw 12 mm
Control latch plastic, black
Weight approx. 450 g

Admissible mounting positions

Right hand lock, opening clockwise



Lock function

Active release control: After authorization at the central control a supply voltage is applied at the lock. The current feed of the release solenoid starts after the lock has been opened (key turned).

Deposit-box monitoring: Using this concept it is possible to monitor the lock/deposit box (e.g. lock has been manipulated or box has been broken open).

Electronically controlled lock, cable 2 wires, usable length 211 mm, cable ends tin-plated

Interface	Function element	Specification	Operating time (OT)
Input	Release solenoid	370 Ohm, U _{min} =13 V DC	13 V: 100% OT, 24 V: 48% OT
Output	Key/latch contact	Normally closed, 50 mA, 30 V DC	

Lock

E-lo-safe S - standard

Specifications

Double-bitted renter lock
8 levers, electrolytic galvanised steel
Opening with double-bitted key after electronic release
Renter key retained when in the open position

Order code

79101

Keys

Material	Length, Ø stem [mm]	Usable length [mm]	Key bow
Renter double-bitted keys, nickel-plated			
Die-cast	55.5, Ø 5	10	Mauer

Option code

DSD056

Lock

E-lo-safe D - standard

Specifications

Renter lock with turning knob for self-service stations
Opening with turning knob after electronic release

Order code

79106

79101 E-lo-safe S
79106 E-lo-safe D
79111 E-lo-safe C



-  E-lo-safe S - with double-bitted keys
-  E-lo-safe D - with turning knob
-  E-lo-safe C - with cylinder keys

Options (please specify option code)

- Turning knob, for door thickness from 4-6 mm
- Turning knob, for door thickness from 13-33 mm
- Turning knob, for door thickness from 7-12 mm and 34-39 mm

Option code

- DKA
- DKB
- DKC

Lock

E-lo-safe C - standard

Specifications

- Renter lock with cylinder
- Profile cylinder Ø 22 mm, 5 pins
- Opening with cylinder key after electronic release
- Renter key retained when in the open position

Order code

79111

Keys

Material	Length [mm]	Usable length [mm]	Key bow
Renter cylinder keys, nickel-plated			
Steel	51	7.3	Mauer

Option code

ZST051

Options

Options

- Tamper switch
- Lock case and bolt surface treated
- Connector

Passive release control: After authorisation at the central control the current feed of the release solenoid starts immediately. After the lock has been opened (key turned) the current feed is interrupted.

Deposit box monitoring: Using this concept only a limited monitoring of the deposit box is possible (e.g. box has been broken open).

Key/latch contact (separate line), cable 5 wires, usable length 200 mm, cable ends tin-plated

Interface	Function element	Specification	Operating time (OT)
Input	Release solenoid	370 Ohm, Umin=13 V DC	13 V: 100% OT, 24 V: 48% OT
Output	Key/latch contact	Change over contact, 50 mA, 30 V DC	

Option code

- AHK
- SRO
- MTA156

FSK005

Alternative operating voltage (resistance solenoid)

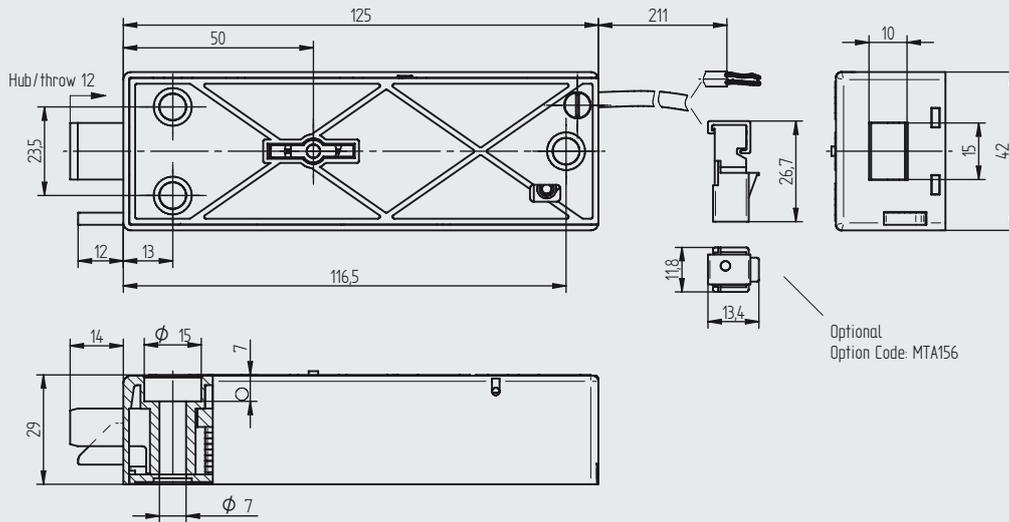
Interface	Function element	Specification	Operating time (OT)
Input	Release solenoid	148 Ohm, Umin=5 V DC	6 V: 100% OT, 12 V: 87% OT, 24 V: 15% OT
Input	Release solenoid	563 Ohm, Umin=20 V DC	24 V: 87% OT

OHM148

OHM563

Further cable lengths on request

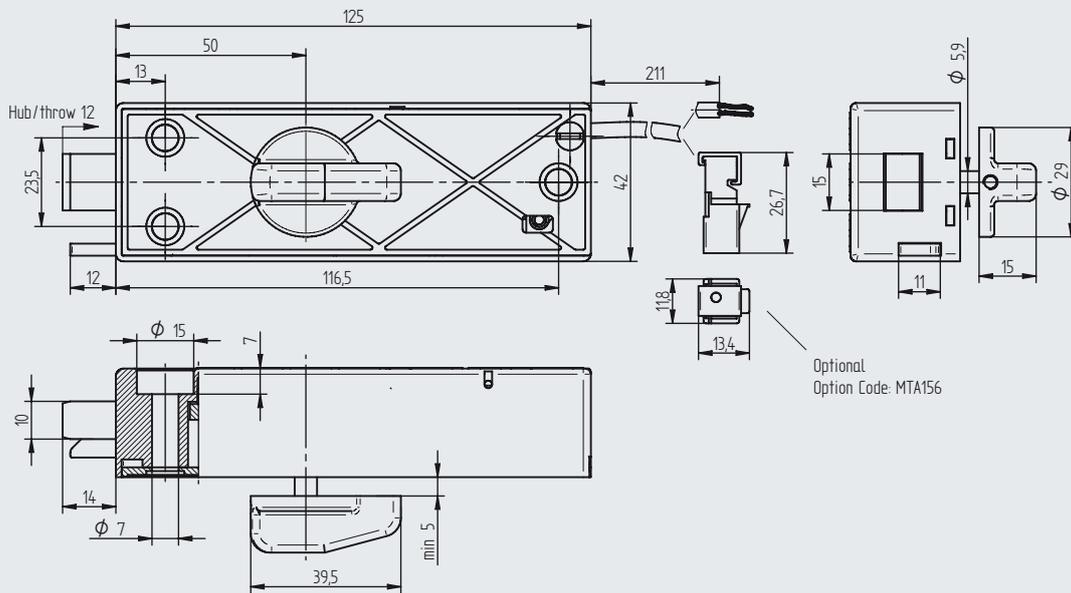
Scale 1:2



79101 E-lo-safe S

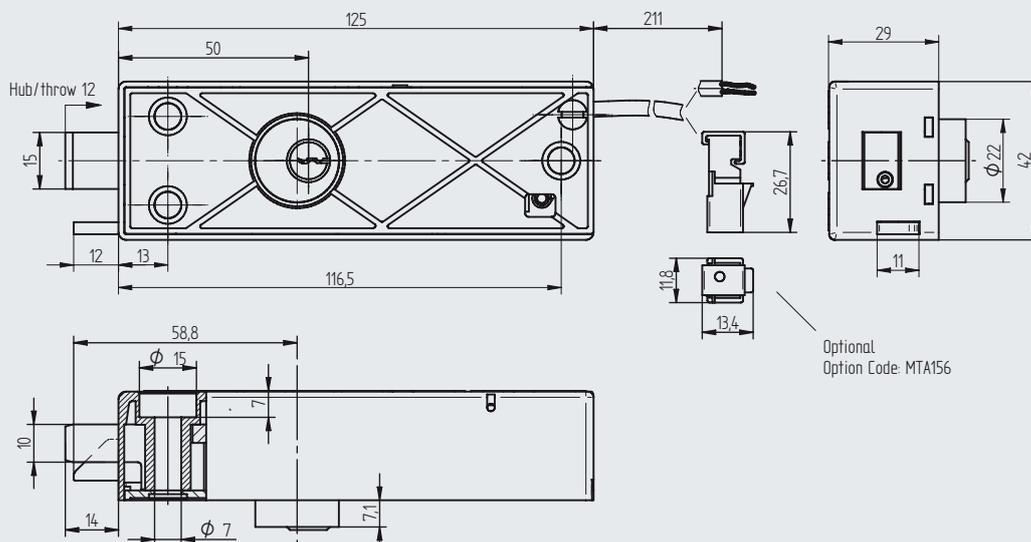
102

Scale 1:2



79106 E-lo-safe D

Scale 1:2



79111 E-lo-safe C



Locks for Deposit Boxes & Lockers: Locker Locks

Where innovative locks for clothes lockers, handbag deposit boxes or staff lockers are needed, our locks for lockers are always the best choice. Their user-friendly design is a convincing argument to buy for leisure time facilities, shopping centres, libraries, event halls, clinics and industry.

Overview



Key-so-flex

5 renter/5 master levers, 2 keyholes, changeable, activation-key or coin function (opt.)



Quick-Combi K

4 renter combination knobs/6 decoding levers, coin function (opt.)

Order code

73081

81021

P

106

108

105

73081 Key-so-flex

Changeable key lock with dead bolt.
User lock and master lock approx. 7,800 theoretical variations each.

The lock has a changeable user as well as a changeable master lock. Each lock is operated by a separate keyhole. The change function of the user lock guarantees that every lock can be set to a new key if necessary.

Application areas are lockers and left luggage lockers. Because the lock case is made of high-quality plastic, it is suitable for wet areas (e.g. swimming pools).



106

Basic Features

Lock
Key-so-flex - standard

Specifications

User lock

- Changeable lock
- 5 levers, steel surface treated
- User key retained when in open position

Master lock

- Changeable lock
- 5 levers, steel surface treated

Lock case and bolt plastic, black, throw 12 mm

Suitable for doors up to 20 mm

Weight approx. 200 g

Admissible mounting positions

Right hand lock, opening clockwise



Order code
73081

Options & Accessories

Options

Activation-key function incl. activation-key (activation-key as pledge)

Coin function (for 1 EUR coin, coin as pledge)

Coin function (for 2 EUR coin, coin as pledge)

Coin function for further currencies and jetons on request

User lock in works locking mode

Master lock in works locking mode

Lock set to a given master lock

User key marked with door number

Accessories

Fitting plate for door thickness from 1.5-11 mm, black, with door numbers, grey

Fitting plate for door thickness from 11-20 mm, black, with door numbers, grey

Fitting plate for door thickness from 1.5-11 mm, black, without door numbers

Fitting plate for door thickness from 11-20 mm, black, without door numbers

Option code
ASA
EUR001
EUR002

BVW
MVW
SVM
RPN

Order number
3 118 000 240
3 118 000 230
3 118 000 220
3 118 000 210

Works keys, nickel plated

Material	Length [mm]	Usable length [mm]	Key bow
----------	-------------	--------------------	---------

User double-bitted keys, rigid, nickel plated

Die-cast	61	20	Mauer
----------	----	----	-------

Master double-bitted keys, rigid

Die-cast	72	30	Mauer
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Order number

73080W0002

73080W0001

73081 Key-so-flex

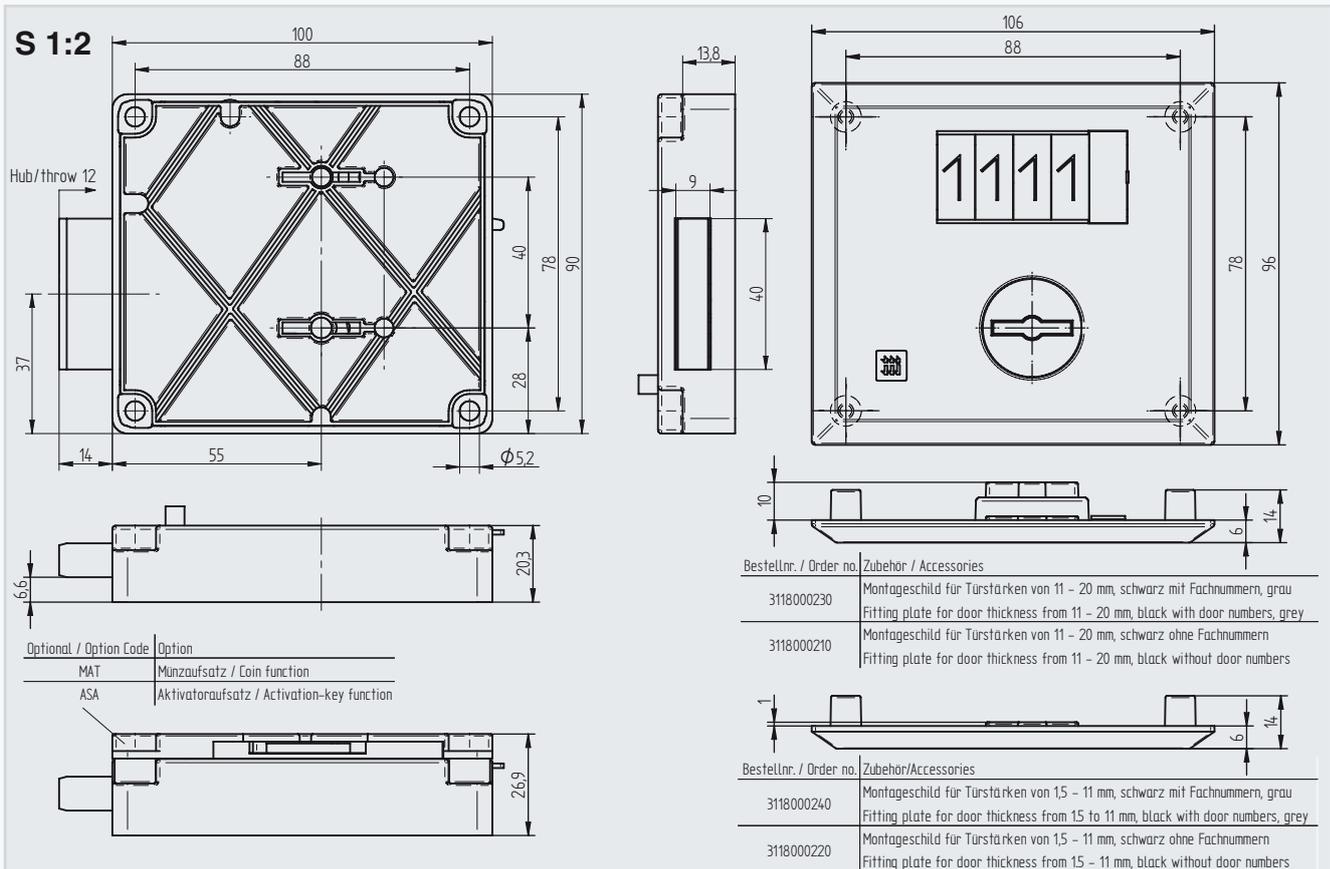


-  Lock with fitting plate and keys
-  Lock with activation-key function
-  Lock with coin function

Keys

Keys	Material	Length, Ø stem [mm]	Usable length [mm]	Key bow	Order number
User double-bitted keys, rigid, nickel-plated					
Die-cast		61, Ø 6	20	Mauer	73080S0003
User double-bitted keys, foldable, perlon strap with numbered aluminium plates					
Nickel silver		76/43 Ø 5.3	16	Foldable Bow	73080S0006
User double-bitted keys, foldable, perlon strap with neutral aluminium plates					
Nickel silver		76/43 Ø 5.3	16	Foldable Bow	73080S0005
Master double-bitted keys, rigid, nickel-plated, with permutation number					
Die-cast		71, Ø 6	30	Mauer	73080S0004

NB: Because of the master key function and the changeability of the user lock, we consider 1 user key per lock to be sufficient. Per installation we recommend at least 2 master keys.



81021 Quick-Combi K

Mechanical combination lock with dead bolt.
User lock approx. 38,000, decoding lock approx. 78,000 theoretical variations.

The user sets by means of the 4 knobs a combination to open or to close the lock. If necessary the set combination can be decoded with the decoding key and the lock can be opened.

Application areas are hotel safes, cloakrooms and left luggage lockers.
Adhesive labels with operating instructions make the simple use of the lock clear to the user.



108

Basic Features

Lock

Quick-Combi K - standard

Specifications

User lock: 4 knobs plastic, black, 14 settings (0-9, A-D) each
Decoding lock: 6 levers, changeable lock, plastic/steel
Decoding key retained when in open position
Lock case, bolt and knobs plastic, black, throw 20 mm
Weight approx. 200 g

Admissible mounting positions

Right hand or left hand lock (upside down mounting), opening clockwise



* NB: The mounting positions "bolt up, bolt down, bolt right" are only admissible for the mounting method "fitting plate" (option MGS). These mounting positions are not admissible for the "coin function" (option EURxxx).

Mounting method (please specify option code)

Direct screwing (4 locating discs and carrying brackets included in delivery)
Mounting plate or welding bolts (4 slotted nuts included in delivery)
Fitting plate (4 slotted nuts, locating discs and carrying brackets included in delivery)

Order code

81021

Option code

DVS
MPA
MGS

Options & Accessories

Options

Coin function (for 1 EUR coin, coin as a pledge)
Coin function (for 2 EUR coin, coin as a pledge)
Coin function for further currencies and jetons on request
Decoding lock in works locking mode
Lock set to a given decoding lock

Accessories

Mounting plate 2 mm thick, with stud bolts
Fitting plate 2 mm thick, stainless steel, in front of the door, threaded bolts M5

- Horizontal fitting, suitable for door thickness up to 2 mm, bolt left
- Horizontal fitting, suitable for door thickness up to 13 mm, bolt left
- Horizontal fitting, suitable for door thickness up to 2 mm, bolt right
- Horizontal fitting, suitable for door thickness up to 13 mm, bolt right
- Vertical fitting, suitable for door thickness up to 2 mm, bolt up
- Vertical fitting, suitable for door thickness up to 13 mm, bolt up
- Vertical fitting, suitable for door thickness up to 2 mm, bolt down
- Vertical fitting, suitable for door thickness up to 13 mm, bolt down

Option code

EUR001
EUR002

MVW
SVM

Order number

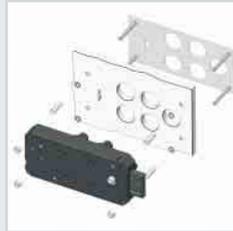
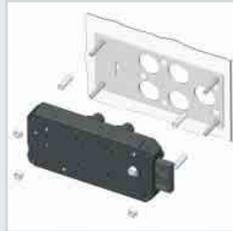
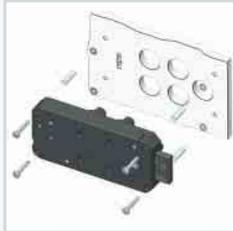
3 102 000 230

3 102 900 002
3 102 900 003
3 102 900 005
3 102 900 004
3 102 900 001
3 102 900 006
3 102 900 007
3 102 900 008



81021 Quick-Combi K

-  Lock and keys with Mauer bow
-  Lock with coin function and adhesive label
-  Mounting method: direct screwing
-  Mounting method: mounting plate
-  Mounting method: fitting plate



Adhesive labels *(please specify order number)*

For mounting method “direct screwing” (option DVS) and for mounting method “mounting plate or welding bolts” (option MPA)

Black, with markings and operating instructions

- 2 languages: German/English
- 2 languages: French/English
- 2 languages: Spanish/English
- 2 languages: Italian/English

Black, with markings and operating instructions “coin function”

- 1 language: German
- 1 language: English
- 1 language: French
- 1 language: Italian
- 1 language: Dutch

For mounting method “fitting plate” (option MGS)

Transparent, with operating instructions

- 4 languages: French/English/German/Dutch, black writing
- 4 languages: French/English/German/Dutch, white writing

Black, with operating instructions “coin function”

- 1 language: German
- 1 language: English
- 1 language: French
- 1 language: Italian
- 1 language: Dutch

Order number

1 701 000 041
1 701 000 029
1 701 000 042
1 701 000 018

1 701 000 006
1 701 000 039
1 701 000 021
1 701 000 015
1 701 000 035

1 701 000 014
1 701 000 059

2 100 000 230
2 100 000 231
2 100 000 232
2 100 000 233
2 100 000 234

Decoding keys

Material **Length [mm]**

Key bow

Order number

Double-bitted keys, nickel-plated

Die-cast 71

Mauer

81020S0017

Works keys, nickel-plated

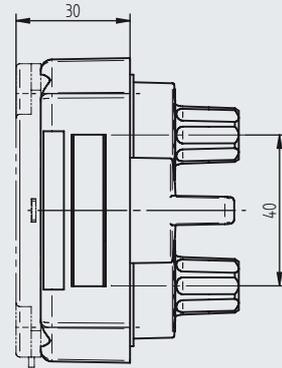
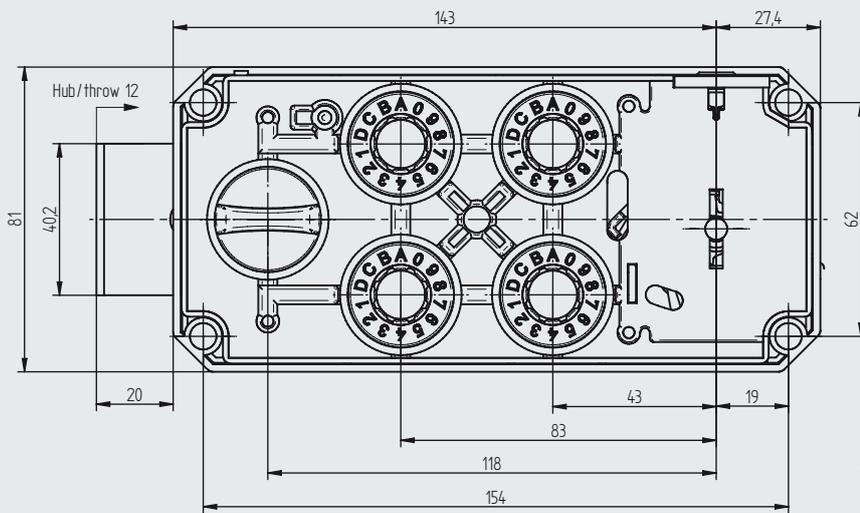
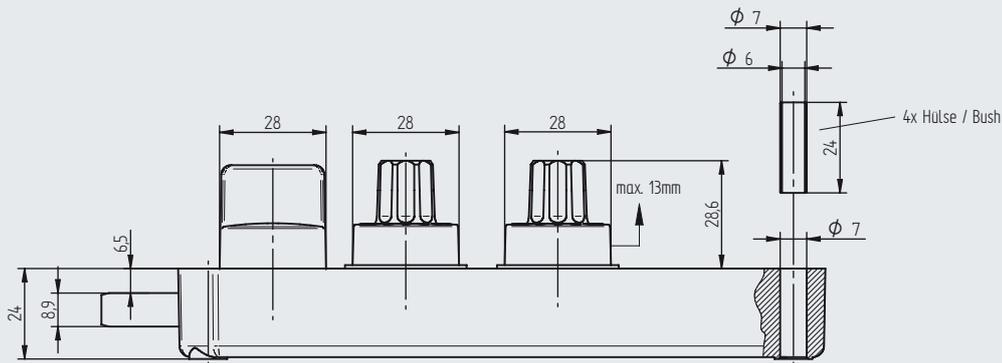
Die-cast 71

Mauer

81020S0016

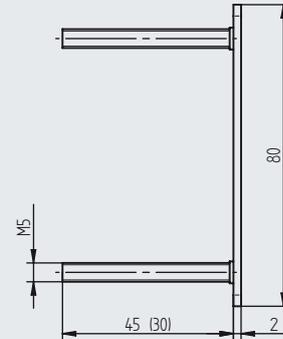
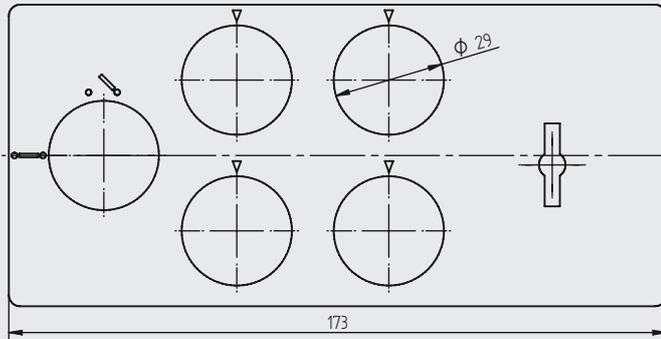
NB: Per installation we recommend at least 2 decoding keys.

Scale 1:2

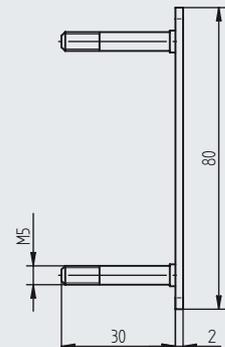
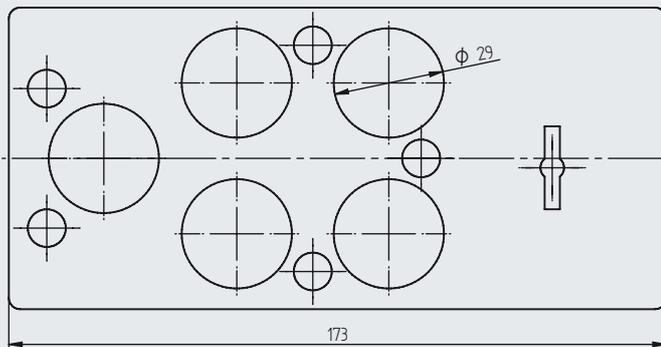


Optional / Option Code	Option
MAT	Münzaufsatz/Coin function
ASA	Aktivatoraufsatz/Activation-key function

Montageschild /
Fitting plate
(RHD Version)



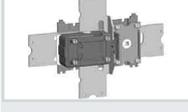
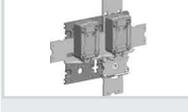
Montageplatte /
Mounting plate





Safe Components: Bolt Works

A distinctive feature of our bolt work systems is their patented security design. They are used for safes of resistance classes 0 - VII. Tell us what you need - and we will find the right answer.

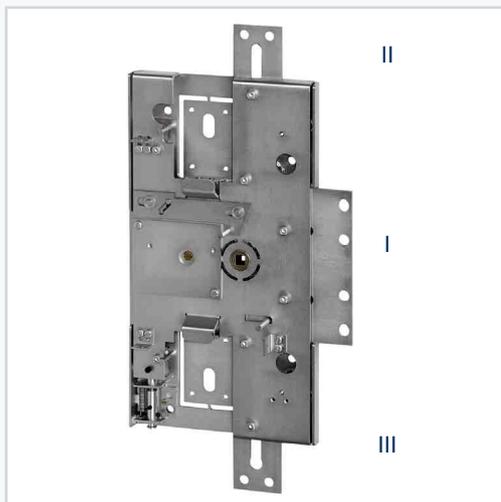
		Order code	P
	Defender 710 224 x 353 mm, 2-lock operation, 1-/2-/3-/4-sided, front shaft support, integrated relockers, prepared for glass plate, gear drive	83421	114
	Defender 720 325 x 415 mm, 2-lock operation, 1-/2-/3-sided, front shaft support, integrated relockers, manganese steel stripes, gear drive	83501	115
	Defender 520 210 x 200 mm, 2-lock operation, 2-/3-/4-sided, gear drive	84011	116
	Defender 510 210 x 120 mm, 1-lock operation, 2-/3-/4-sided, gear drive	84012	116
	Defender 520S 300 x 102 mm, 2-lock operation, 2-/4-sided, gear drive	84013	117
	Defender Univers 210 x 235 mm, 1-lock operation: lock with standard footprint or Code-Combi K, 2-lock operation: locks with standard footprints (opt.), 3-sided, gear drive	84031	118
	Defender 210 182 x 11 mm, 1-lock operation, 4-sided, gear drive	84041	119
	Defender Module 1 163 x 104 mm, 1-lock operation, 4-sided, bolt protection, crimped base plate, eccentric drive	84081	120
	Defender Module 2 163 x 204 mm, 2-lock operation, 4-sided, bolt protection, crimped base plate, eccentric drive	84082	120

83421 Defender 710

1- to 4-sided bolt work for safes GEN II-V.

The bolt work is prepared for the use of a glass plate. Due to two patented front shaft supports in form of integrated massive steel elements a very high manipulation protection is achieved. During the opening process the blocking is released by the forward motion of the shafts II and III. Afterwards shaft I is drawn back.

No defined locking order in case of 2-lock operation.



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Basic Features

Bolt work
Defender 710 - standard

Specifications

Dimensions base plate 224 x 420 mm

Installation applications

- 2-lock operation
- 3-sided
- Shaft I throw 25 mm, shaft II/III throw 34 mm, opening angle of handle 110°
- Shaft connections: Ø 10.5 mm
- Lock mounting: 4 M6 threaded bushes
- Mounting position of locks:
vertical, bolt up/down, bolt throw 8.7 - 12 mm, blocking of horizontal shafts
- For right hand doors, opening clockwise

Manipulation protection

- Support shaft I, release by forward motion of the shafts II/III
- 2 integrated relockers, detent in blocking position
- Prepared for use of a glass plate
- Indirect blocking point

Steel chromated

Gear drive with follower 11 mm

Prepared for Ristow-Element 4.4

Weight approx. 7,770 g

Order code
83421

Options & Accessories

Options

1-sided (I)

2-sided (I, II)

4-sided

1-lock operation, coupling of the second lock position with the operating lock

3 integrated relockers, detent in blocking position

For left hand doors, opening counter-clockwise

Special types on request

Accessories

Screw for blocking slide of the lock (2 screws per lock are needed)

Bolt distance plate for combination locks, throw 8.7 mm

Connection set Ristow-Element 4.4 for right hand doors

Connection set Ristow-Element 4.4 for left hand doors

Option code

SES

SZS

SVS

ESB

REI

SLG

Order number

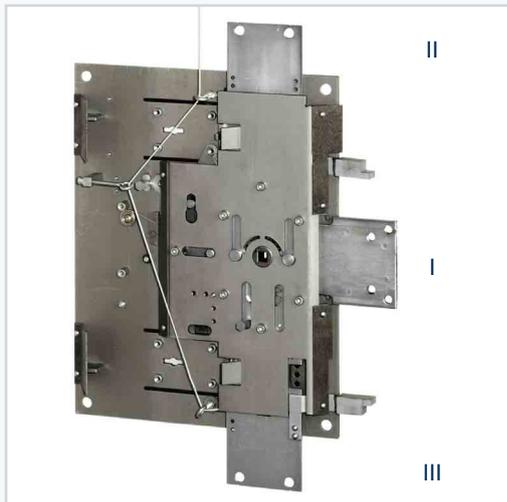
1 260 400 137

2 140 000 010

3 118 000 110

3 118 000 100

NB: If you need any drawings of this product, please contact Kaba Mauer.



83501 Defender 720

1- to 3-sided bolt work for safes CEN II-V.

The bolt work is protected by manganese steel plates. Tightening cords are used as additional protection. Due to two patented front shaft supports in form of integrated massive steel elements a very high manipulation protection is achieved. During the opening process the blocking is released by the forward motion of the shafts II and III. Afterwards the shaft I is drawn back.

No defined locking order in case of 2-lock operation.

Basic Features

Bolt work
Defender 720 - standard

Specifications

Dimensions base plate 325 x 415 mm

Installation applications

- 2-lock operation, 3-sided
- Shaft I throw 30 mm, shaft II/III throw 39 mm, opening angle of handle 125°
- Shaft connections: Ø 10.5 mm
- Mounting position of locks:
horizontal, bolt left, bolt throw 8.7 - 12 mm, blocking of vertical shafts
- Lock mounting: 4 M6 threaded bushes
- For right hand doors, opening clockwise

Manipulation protection

- High resistant shaft I, release by forward motion of the shafts II/III
- Base plate with riveted manganese steel plate, 2 mm thick
- Side manganese steel stripes
- Manganese steel angles as drilling protection
- Integrated relocker with tightening cord, polyester, 3 m length, detent in blocking position
- Indirect blocking points

Electrolytic galvanised steel, cutting edge blank

Gear drive with follower 11 mm

Prepared for Ristow-Element 4.4

Prepared for position indicator of shafts

Weight approx. 9,300 g

Options & Accessories

Options

1-sided (I)

2-sided (I, II)

1-lock operation, second lock blocking point without function

For right hand doors, opening counter-clockwise

For left hand doors, opening counter-clockwise

For left hand doors, opening clockwise

Special types on request

Accessories

Screw for blocking slide of the lock (2 screws per lock are needed)

Bolt distance plate for combination locks, throw 8.7 mm

Connection set Ristow-Element 4.4 for right hand doors

Connection set Ristow-Element 4.4 for left hand doors

NB: If you need any drawings of this product, please contact Kaba Mauer.

Order code
83501

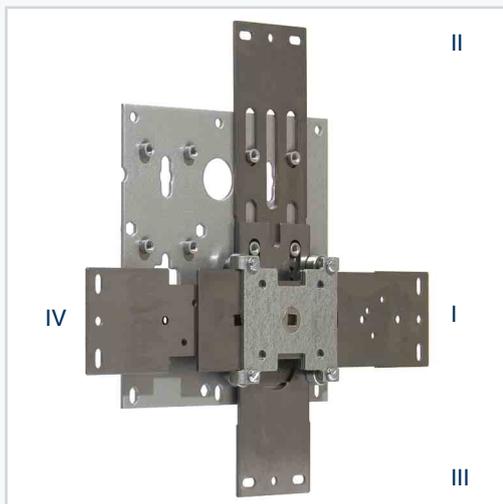
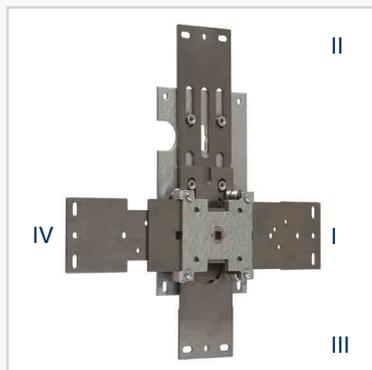
Option code
SES
SZS
ESB
SRG
SLG
SLI

Order number
1 260 400 137
2 140 000 010
3 118 000 080
3 118 000 090

84011 Defender 520 84012 Defender 510

The 4-sided bolt work family is characterised by its smooth running gear wheel and its solid construction.

Defender 520 is designed as a 2-lock operated version without defined locking order whereas Defender 510 is designed as a 1-lock operated version.



Defender 520
Defender 510

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General Features

Specifications

Installation applications

- 4-sided, shafts 72 mm wide, 2.5 mm thick
- Shaft throw 30 mm, opening angle of handle 90°
- Shaft connections: elongated hole 6.4 x 13.6 mm, Ø 6.4 mm
- Lock mounting: 4 x 1/4" BSW threaded bushes
- Mounting position of locks:
vertical, bolt down, bolt throw 8.7 - 12 mm, blocking of horizontal shafts
- For right hand doors, opening counter-clockwise
NB: "Opening counter-clockwise" is the standard opening direction for right hand doors with lever handles. If the door is equipped with a hinged handle, we recommend "opening clockwise".

Material/surface

- Base plate and cover plate steel lacquered
- Shafts steel blank

Gear drive with follower 8 mm

Bolt work

Defender 520 - standard

2-lock operation, dimensions base plate 210 x 200 mm
Weight approx. 2,850 g

Order code

84011

Bolt work

Defender 510 - standard

1-lock operation, dimensions base plate 210 x 120 mm
Weight approx. 1,850 g

Order code

84012

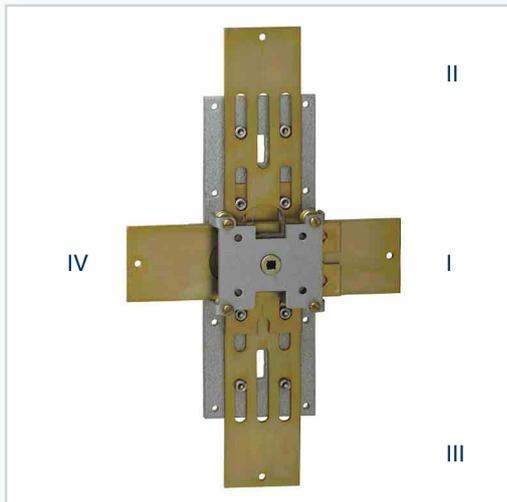
Options

- | | 84012 | 84011 |
|---|-------|-------|
| 3-sided (I, II, III) | ✓ | ✓ |
| 2-sided (I, IV) | ✓ | ✓ |
| Shaft throw 20 mm, opening angle of handle 60° | ✓ | ✓ |
| Shaft throw 25 mm, opening angle of handle 75° | ✓ | ✓ |
| Lock mounting: 4 M6 threaded bushes | ✓ | ✓ |
| Prepared for lock cover (fixing pins for glass or stainless steel plate) | ✓ | ✓ |
| Gear drive with follower 11 mm | ✓ | ✓ |
| Manganese steel plate as drilling protection, 1.5 mm thick | ✓ | ✓ |
| Manganese steel plate as drilling protection, 3 mm thick (2 x 1.5 mm) | ✓ | ✓ |
| Anti-panic opening function, suitable for access doors
(only 1 lock blocking position available) | | ✓ |
| Guide pins for tightening cord | ✓ | ✓ |
| For right hand doors, opening clockwise | ✓ | ✓ |
| For left hand doors, opening counter-clockwise | ✓ | ✓ |
| For left hand doors, opening clockwise | ✓ | ✓ |
| Special types on request | | |

Option code

- SDS
- SZS
- HUB020
- HUB025
- SVG
- VSD
- ZRA011
- MNB1.5
- MNB003
- APF
- FSD
- SRI
- SLG
- SLI

NB: If you need any drawings of this product, please contact Kaba Mauer.



84013 Defender 520S

The 4-sided bolt work is characterised by its smooth running gear wheel and its solid construction.

No defined locking order in case of 2-lock operation.

Basic Features

Bolt work
Defender 520S - standard

Specifications

Dimensions base plate 300 x 102 mm

Installation applications

- 2-lock operation
- 4-sided, bolt shaft 72 mm wide, 2.5 mm thick
- Shaft throw 30 mm, opening angle of handle 90°
- Shaft connections: elongated hole 6.4 x 13.6 mm, Ø 6.4 mm
- Lock mounting: 4 x ¼" BSW threaded bushes
- Mounting position of locks:
vertical, bolt up/down, bolt throw 8.7 - 12 mm, blocking of horizontal shafts
- For right hand doors, opening counter-clockwise
NB: "Opening counter-clockwise" is the standard opening direction for right hand doors with lever handles. If the door is equipped with a hinged handle, we recommend "opening clockwise".

Material/surface

- Base plate and cover plate steel lacquered
- Shafts steel blank

Gear drive with follower 8 mm

Weight approx. 2,500 g

Options

Options

- 2-sided
- Shaft throw 20 mm, opening angle of handle 60°
- Shaft throw 25 mm, opening angle of handle 75°
- Prepared for lock cover (fixing pins for glass or stainless steel plate)
- Gear drive with follower 11 mm
- Manganese steel plate as drilling protection, 1.5 mm thick
- Manganese steel plate as drilling protection, 3 mm thick (2 x 1.5 mm)
- For right hand doors, opening clockwise
- For left hand doors, opening counter-clockwise
- For left hand doors, opening clockwise
- Special types on request

NB: If you need any drawings of this product, please contact Kaba Mauer.

Order code
84013

Option code
SZS
HUB020
HUB025
VSD
ZRA011
MNB1.5
MNB003
SRI
SLG
SLI

84031 Defender Univers

The 3-sided bolt work is characterised by its flexibility. It can be operated by maximal two locks with standard footprints or by one electronic lock combination 82021 Code-Combi K. In case of a 2-lock operation the locking order is not defined.

The bolt work can be supplied optionally with an integrated relocker and a lock driven blocking slide.

Defender Univers
with option ZSB



118

Basic Features

Bolt work

Defender Univers - standard

Specifications

Dimensions base plate 210 x 235 mm

Installation applications

- 1-lock operation:
 - 1 lock with standard footprint, admissible mounting position of lock: vertical, bolt down, bolt throw 8.7 - 12 mm or
 - 1 lock 82021 Code-Combi K, admissible mounting position of lock: horizontal, bolt right, bolt throw 12 mm
- 3-sided
- Shaft throw 25 mm, opening angle of handle 75°
- Shaft connections: Ø 8.2 mm and elongated hole 6.4 x 13.6 mm, Ø 6.4 mm
- Lock mounting: 4 x 1/4" BSW threaded bushes
- For right hand doors, opening clockwise

Steel blank

Gear drive with follower 8 mm

Weight approx. 2,180 g

Order code

84031

Options & Accessories

Options

Prepared for slide bolt technology

Prepared for 2-lock operation (locks with standard footprints),

mounting position of locks: vertical, bolt down, bolt throw 8.7 - 12 mm

Steel chromated

Integrated relocker, detent in blocking position

Manganese steel plate as drilling protection 1.5 mm thick

Guide pins for tightening cord

For right hand doors, opening counter-clockwise

For left hand doors, opening counter-clockwise

For left hand doors, opening clockwise

Lock mounting: 4 M6 threaded bushes

Special types on request

Accessories

Additional blocking slide with 4 plastic bushings (only for Code-Combi K 82021)

NB: This option is only suitable for lock 82021 Code-Combi K with "blocking drive pin" (option SSD).

NB: If you need any drawings of this product, please contact Kaba Mauer.

Option code

VSR

ZSB

OCH

REI

MNB1.5

FSD

SRG

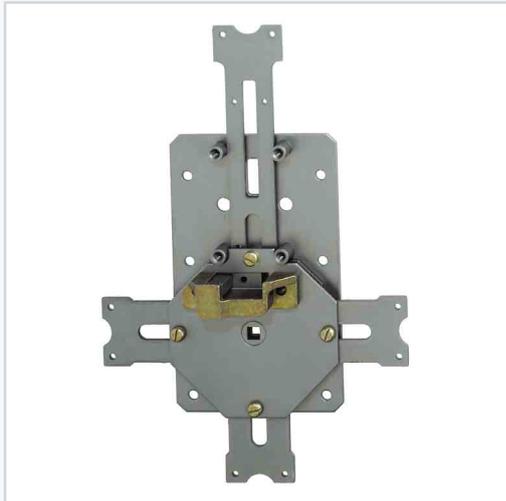
SLG

SLI

SVG

Order number

3 118 000 070



84041 Defender 210

The 4-sided bolt work is characterised by its smooth running gear wheel and its solid construction.

Defender 210 is designed as a 1-lock operated bolt work.

Basic Features

Bolt work
Defender 210 - standard

Specifications

Dimensions base plate 182 x 110 mm

Installation applications

- 1-lock operation
- 4-sided, bolt shaft 45 mm wide, 3 mm thick
- Shaft throw 22 mm, opening angle of handle 80°
- Shaft connections: Ø 4.1 mm
- Lock mounting: 4 x 1/4" BSW threaded bushes
- Mounting position of lock:
vertical, bolt down, bolt throw 8.7 - 12 mm, blocking of horizontal shafts
- For right hand doors, opening counter-clockwise
NB: "Opening counter-clockwise" is the standard opening direction for right hand doors with lever handles. If the door is equipped with a hinged handle, we recommend "opening clockwise".

Material/surface

- Base plate and cover plate steel blank
- Shafts steel blank

Gear drive with follower 8 mm

Weight approx. 1,050 g

Options

Options

Lock mounting: 4 M6 threaded bushes
Base plate, cover plate and shafts surface treated
Manganese steel plate as drilling protection, 1.5 mm thick
For right hand doors, opening clockwise
For left hand doors, opening counter-clockwise
For left hand doors, opening clockwise
Special types on request

Order code
84041

Option code
SVG
PSO
MNB1.5
SRI
SLG
SLI

NB: If you need any drawings of this product, please contact Kaba Mauer.

84081 Defender Module 1 84082 Defender Module 2

The 4-sided bolt work family is characterised by its patented modular system. The Defender Module 1 is designed as a 1-lock operated bolt work for safes CEN 0-II. Due to the module components it can be extended very easily from the 1-lock to the 2-lock operated bolt work Defender Module 2.

Both bolt works offer best safety conditions for attacks on the operating handle.



120

General Features

Specifications

Installation applications

- 4-sided
- Shaft throw 22 mm, opening angle of handle 55°
- Shaft connections: Ø 4.1 mm
- Shafts as loose components
- Lock mounting: 4 M6 threaded bushes
- Opening clockwise

Manipulation protection

- Bolt protection
- Crimped base plate for wire protection

Steel blank

Square eccentric drive □ 8 mm, with defined breaking points

Bolt work

Defender Module 1 - standard

Specifications

1-lock operation

Dimensions base module 163 x 104 mm

Short shafts

Weight approx. 1,600 g

Options

For right hand doors (under certain conditions also suitable for left hand doors)

For left hand doors (under certain conditions also suitable for right hand doors)

Order code

84081

Option code

SRR

SRL

Bolt work

Defender Module 2 - standard

Specifications

2-lock operation

Dimensions base module 163 x 204 mm

Long shafts

Weight approx. 1,800 g

Options

Mounting situation 1

Right hand door



Left hand door



Mounting situation 2

Right hand door



Left hand door



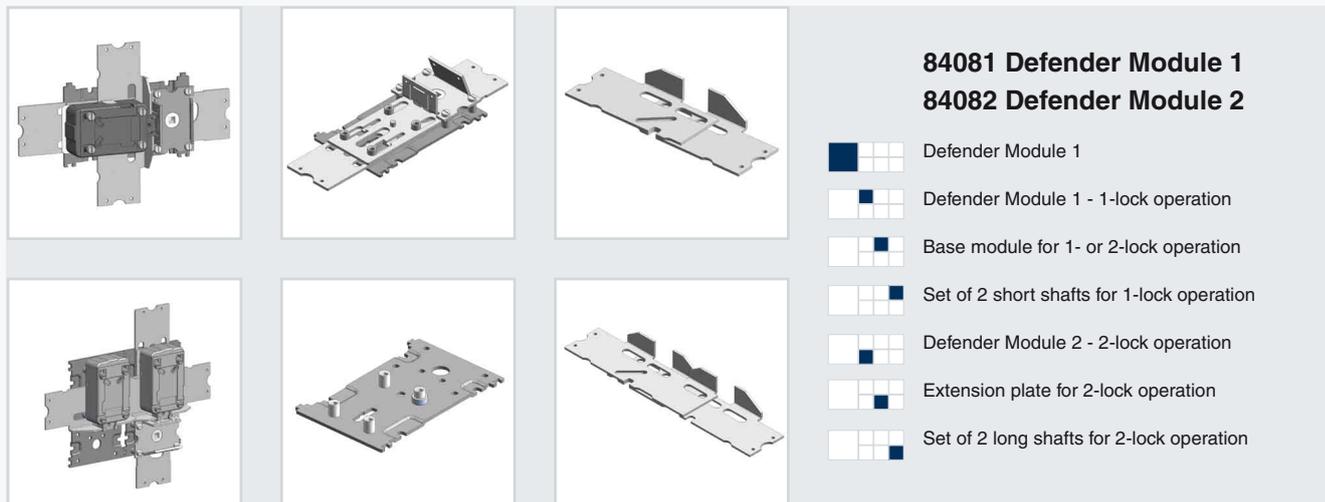
Order code

84082

Option code

ESE

ESZ



84081 Defender Module 1 84082 Defender Module 2

-  Defender Module 1
-  Defender Module 1 - 1-lock operation
-  Base module for 1- or 2-lock operation
-  Set of 2 short shafts for 1-lock operation
-  Defender Module 2 - 2-lock operation
-  Extension plate for 2-lock operation
-  Set of 2 long shafts for 2-lock operation

Module Components, Options & Accessories

Module components

The unique modular expansion concept allows the disposition of the module components without stocking the complete bolt work. This permits high handling flexibility with low storage costs.

Module components	1-lock operation	2-lock operation
Base module	✓	✓
Extension plate		✓
Set of 2 short shafts	✓	
Set of 2 long shafts		✓

Options

Options	Bolt work		Module components			
	84081	84082	84081M	84082A	84081B	84082B
Installation applications						
For right hand doors	✓				✓	
For left hand doors	✓				✓	
Mounting situation 1		✓				✓
Mounting situation 2		✓				✓
Base module/extension plate not crimped	✓	✓	✓	✓		
Throw 15 mm	✓	✓	✓			
Extended shafts for installation of longer locks	✓	✓	✓			
Opening counter-clockwise	✓	✓	✓			
Prepared for swing bolt technology (* specify position)	✓	✓ *			✓	✓ *
Manipulation protection						
Bolt protection with doubled manganese steel plate	✓	✓	✓			
Base module/extension plate with spot welded manganese steel plate 1.5 mm thick	✓	✓	✓	✓		
Without bolt protection	✓	✓	✓			
Material/surface						
Base module/extension plate steel chromated	✓	✓	✓	✓		
Shafts chromated					✓	✓

Accessories

Additional lock driven blocking slide as installation set

NB: If you need any drawings of this product, please contact Kaba Mauer.

Order code

84081M
84082A
84081B
84082B

Optioncode

SRR
SRL
ESE
ESZ
GNS
HUB015
VLS
OGU
SBT

RMN
GMN

ORK

CHR
SCH

Order number

3 118 000 060



Safe Components & Accessories

Kaba Mauer offers a wide range of components and accessories for safes.

		Order code	P
	Relino 181 Strap hinge/bearing, height approx. 181 mm With radial and axial spherical plain bearings, adjustable	86006	125
	Relino 131 Strap hinge/bearing, height approx. 131 mm Self-lubricating bearing bushes, adjustable thrust bearing/lead-through for cables (opt.)	86012	126
	Relino 131 A Strap hinge/bearing, height approx. 131 mm False hinge with lead-through for cables	86014	126
	Relino 131 K Bearing/bearing, height approx. 131 mm Self-lubricating bearing bushes, adjustable thrust bearing/lead-through for cables (opt.)	86017	128
	Relino 71 Strap hinge/bearing, height approx. 71 mm Self-lubricating bearing bushes (opt.)	86023	129
	Relino 106 Strap hinge/bearing, height approx. 106 mm Self-lubricating bearing bushes, adjustable thrust bearing/lead-through for cables (opt.)	86022	130
	Relino 106 K Bearing/bearing, height approx. 106 mm Self-lubricating bearing bushes, adjustable thrust bearing/lead-through for cables (opt.)	86027	130
Key Guides			
	Vecto For double-bitted keys with stem diameter up to \varnothing 7 mm Drawn steel section blank, spot welded	86101	132
	Vecto N For key carrier 86124 and 94012 Servant R (for key retaining keys) Drawn steel section blank, spot welded	86102	132
	Vecto A For key carrier Servant K 86124 (for non key retaining keys) Drawn steel section blank, spot welded	86103	132
Blocking Bolts			
	Relocker B Blocking bolt Round bolt, throw 15 mm, detent in blocking position	86203	133

Indirect Drive



Combi Drive

Indirect drive for mechanical combination locks
Drive 42 mm off-centre, for 3 wheel or 4 wheel (opt.) combination locks

Order code

P

86301

134

Boxes for Night Deposit Safes



DepoBox 195

Cash box for night deposit safes, sheet steel 1.5 mm
Dimensions 195 x 111 x 61 mm

87011

135



DepoBox 194

Cash box for night deposit safes, sheet steel 1.5 mm
Dimensions 194 x 108 x 59 mm

87016

135

Accessories for Locks and Bolt Works



Arvant R

Filling device, polished aluminium EV1 anodised
Profile mounted, projecting 137.5 mm

94011

136



Servant R

Key carrier set for detachable bit part, polished aluminium EV1 anodised
External dimensions 88 mm, only for 70011 Primus C

94012

137



Servant K

Key carrier for detachable bit part, steel
Only for 70011 Primus C, 70076 Variator B, 70079 Praetor B, 70091 Variator A

86124

137



86006 Relino 181

Adjustable, high-quality hinge with radial and axial spherical plain bearings.

Installation application: plane.

The hinge can be supplied optionally with a lead-through for cables.

Installation application
Plane



Basic Features

Hinge
Relino 181 - standard

Specifications

Installation application: plane
 Upper and lower hinge: each with strap hinge and bearing
 Upper and lower hinge: total height of each hinge approx. 181 mm
 Upper hinge: with radial spherical plain bearing
 Lower hinge: adjustable thrust bearing with radial and axial spherical plain bearings
 Drawn steel
 Thread for caps
 Suitable for right hand doors
 Weight approx. 13,500 g

125

Order code
86006

Options & Accessories

Options

Suitable for left hand doors
 Upper hinge: movable bearing with lead-through for cables
 Upper and lower hinge: total height of each hinge approx. 221 mm
 With caps, plastic, aluminium coloured, Ø 48 mm, with thread stud

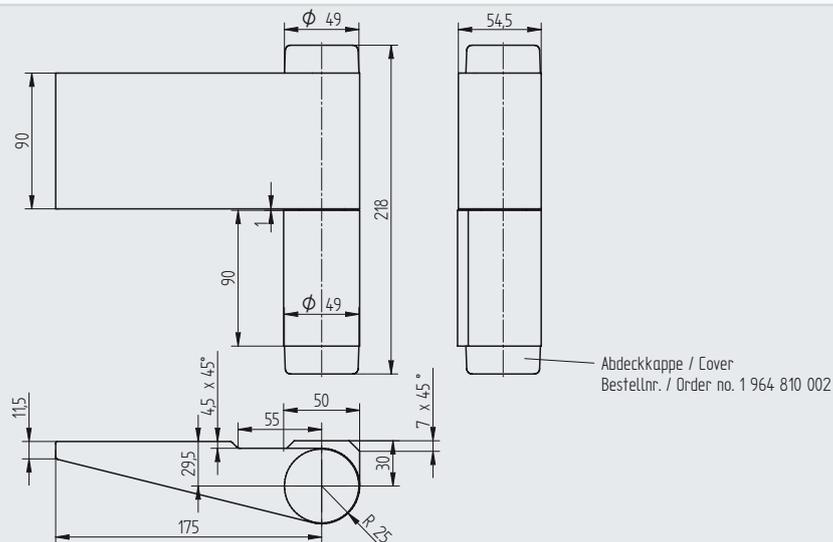
Accessories

1 cap, plastic, aluminium coloured, Ø 48 mm, with thread stud

Option code
SRL
KBL
GSH221
AKA048

Order number
1 964 810 002

Scale 1:2



86012 Relino 131 86014 Relino 131 A

High-quality hinge with maintenance-free bearing bushes.

Installation applications: plane or docked (opt.).

The hinge Relino 131 is complemented by the Relino 131 A, a false hinge with a lead-through for cables in an identical design. It is ideal for cables with large cross sections.



126

Basic Features

Hinge
Relino 131 - standard

Specifications

- Installation application: plane
- Upper and lower hinge: each with strap hinge and bearing
- Upper and lower hinge: total height of each hinge approx. 131 mm
- Upper hinge: movable bearing
- Lower hinge: thrust bearing with hardened steel disc
- Drawn steel
- Pressed pivot pin, Ø 25 mm, C 45 case-hardened
- Self-lubricating bearing bushes
- Suitable for right hand doors
- Weight approx. 5,000 g

Order code
86012

False hinge with lead-through for cables
Relino 131 A - standard

Specifications

- Installation application: plane
- False hinge with a lead-through for cables, without load-bearing capacity
- Upper and lower hinge: each with strap hinge and bearing
- Upper and lower hinge: total height of each hinge approx. 131 mm
- Suitable for right hand doors
- Weight approx. 1,160 g

Order code
86014

Options & Accessories

Options

	86012	86014
Suitable for left hand doors	✓	✓
Installation application: docked (pivot pin pressed in bearing)	✓	✓
Upper hinge: movable bearing with lead-through for cables	✓	✓
Upper hinge: movable bearing with lift blocking M8	✓	✓
Lower hinge: adjustable thrust bearing*	✓	✓
With caps, aluminium EV1 anodised, Ø 38 mm, loose threaded pins	✓	✓

* NB: If the lower hinge has an adjustable thrust bearing, the bearing cannot be equipped with a lower cap.

Option code
SRL
EAL
KBL
ASL008
HVD*
AAX038

Accessories

1 cap, aluminium EV1 anodised, Ø 38 mm, loose threaded pins

Order number
1 483 380 000

86012 Relino 131 A

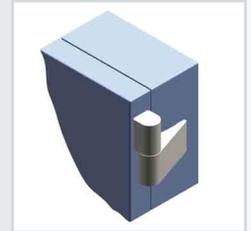
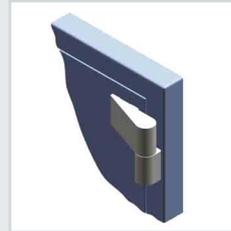
86014 Relino 131



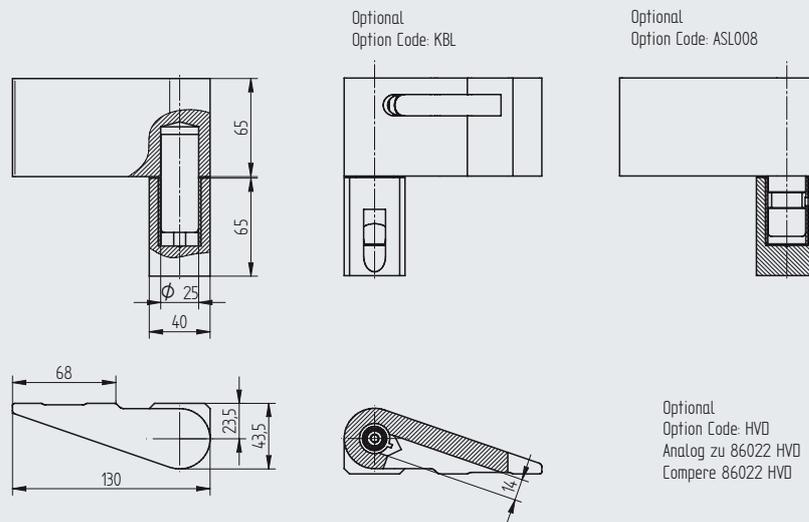
Relino 131 with aluminium caps

Relino 131 A with aluminium caps

Installation applications
Plane (left)
Docked (right)

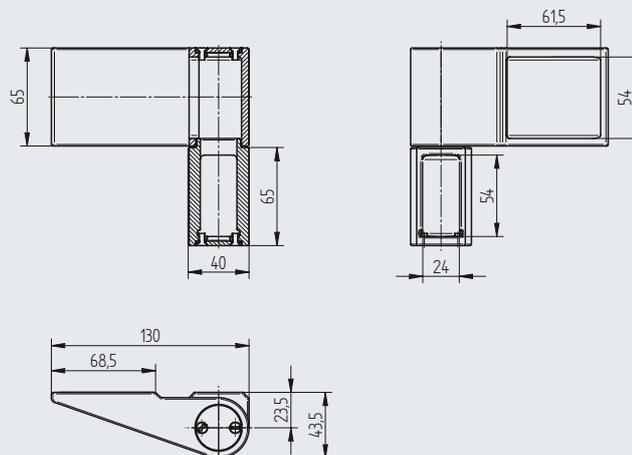


Scale 1:5



86012 Relino 131

Scale 1:5



86014 Relino 131 A

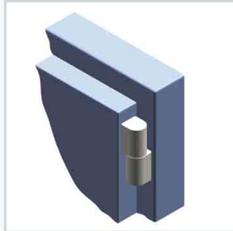
86017 Relino 131 K

High-quality hinge with maintenance-free bearing bushes.

Installation application: projecting.

The hinge can be supplied optionally with a lead-through for cables or an adjustable thrust bearing.

Installation application
Projecting



128

Basic Features

Hinge
Relino 131 K - standard

Specifications

- Installation application: projecting
- Upper and lower hinge: each with 2 bearings
- Upper and lower hinge: total height of each hinge approx. 131 mm
- Upper hinge: movable bearing
- Lower hinge: thrust bearing with hardened steel disc
- Drawn steel
- Pressed pivot pin, Ø 25 mm, C 45 case-hardened, self-lubricating bearing bushes
- Suitable for right hand or left hand doors
- Weight approx. 3,250 g

Order code
86017

Options & Accessories

Options

- Upper hinge: movable bearing with lead-through for cables
- Upper hinge: movable bearing with lift blocking M8
- Lower hinge: adjustable thrust bearing*
- With caps, aluminium EV1 anodised, Ø 38 mm, loose threaded pins
- * NB: If the lower hinge has an adjustable thrust bearing, the bearing cannot be equipped with a lower cap.

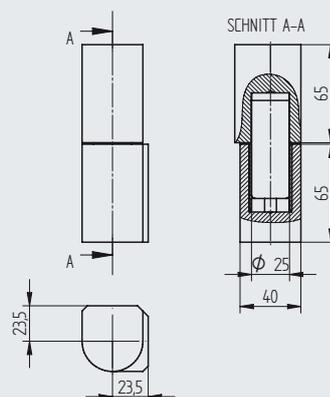
Option code
KBL
ASL008
HVD*
AAX038

Accessories

- 1 cap, aluminium EV1 anodised, Ø 38 mm, loose threaded pins

Order number
1 483 380 000

Scale 1:5

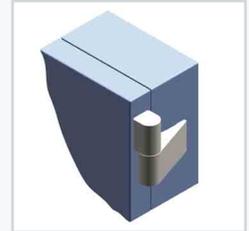
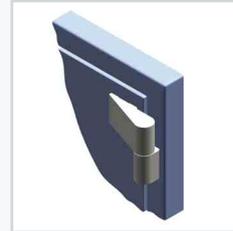
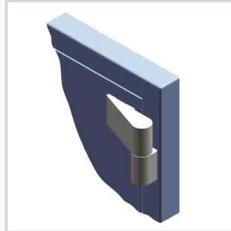




**86023
Relino 71**

High-quality hinge which is characterised by its small size.

Installation applications: plane (left), projecting 6.5 (middle), docked (right)



Basic Features

Hinge
Relino 71 - standard

Specifications

- Installation application: plane
- Upper and lower hinge: each with strap hinge and bearing
- Upper and lower hinge: total height of each hinge approx. 71 mm
- Upper hinge: movable bearing
- Lower hinge: thrust bearing
- Drawn steel
- Pressed pivot pin, Ø 12 mm, drawn stainless steel
- Suitable for right hand doors
- Weight approx. 1,500 g

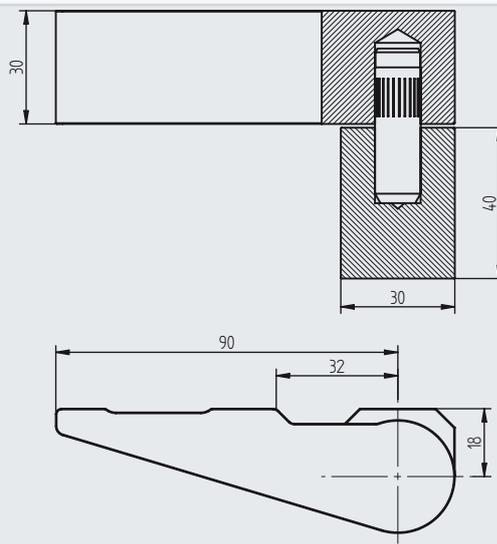
Order code
86023

Options

- Options**
- Suitable for left hand doors
- Bolt 16 mm, self-lubricating bearing bushes, thrust bearing with disc
- Installation application: projecting 6.5 (for door constructions projecting 6.5 mm)
- Installation application: docked (pivot pin pressed in bearing)

Option code
SRL
LAB
EUK
EAL

Scale 1:2



86022 Relino 106 86027 Relino 106 K

High-quality hinges with maintenance-free bearing bushes.

Installation applications Relino 106: plane, projecting 6.5 (opt.) or docked (opt.). Installation applications Relino 106 K: projecting.

The hinge can be supplied optionally with a lead-through for cables or an adjustable thrust bearing.



130

Basic Features

Hinge
Relino 106 - standard

Specifications

Installation application: plane
 Upper and lower hinge: each with strap hinge and bearing
 Upper and lower hinge: total height of each hinge approx. 106 mm
 Upper hinge: movable bearing
 Lower hinge: thrust bearing with hardened steel disc
 Drawn steel
 Pressed pivot pin, Ø 16 mm, C 45 case-hardened, self-lubricating bearing bushes
 Suitable for right hand doors
 Weight approx. 2,400 g

Order code
86022

Hinge
Relino 106 K - standard

Specifications

Installation application: projecting
 Upper and lower hinge: each with 2 bearing profiles
 Upper and lower hinge: total height of each hinge approx. 111 mm
 Upper hinge: movable bearing
 Lower hinge: thrust bearing with hardened steel disc
 Drawn steel
 Pressed pivot pin, Ø 16 mm, C 45 case-hardened, self-lubricating bearing bushes
 Suitable for right hand or left hand doors
 Weight approx. 1,600 g

Order code
86027

Options

Options

	86022	86027
Upper hinge: movable bearing with lead-through for cables	✓	✓
Upper hinge: movable bearing with lift blocking M8	✓	✓
Lower hinge: adjustable thrust bearing*	✓	✓
Upper and lower hinge: total height of each hinge approx. 101 mm	✓	✓
Suitable for left hand doors	✓	
Installation application: projecting 6.5 (for door constructions projecting 6.5 mm)	✓	
Installation application: docked (pivot pin pressed in bearing profile)	✓	
With caps, plastic, gold coloured, Ø 28 mm	✓	✓
With caps, plastic, satin chrome, Ø 28 mm	✓	✓
With caps, aluminium EV1 anodised, Ø 28 mm	✓	✓

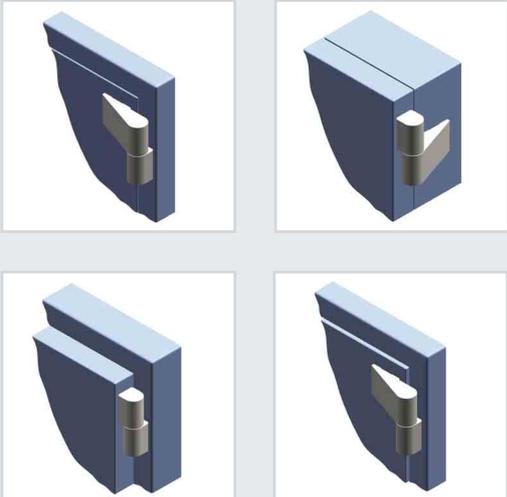
Option code
 KBL
 ASL008
 HVD*
 GSH101
 SRL
 EUK
 EAL
 AKG028
 AKC028
 AAX028

* NB: If the lower hinge has an adjustable thrust bearing, the bearing cannot be equipped with a lower cap.



86022 Relino 106
86027 Relino 106 K

■ Relino 106 with aluminium caps
■ Relino 106 K with plastic caps



Installation applications

- Plane (top left)
- Docked (top right)
- Projecting (bottom left)
- Projecting 6.5 (bottom right)

Accessories

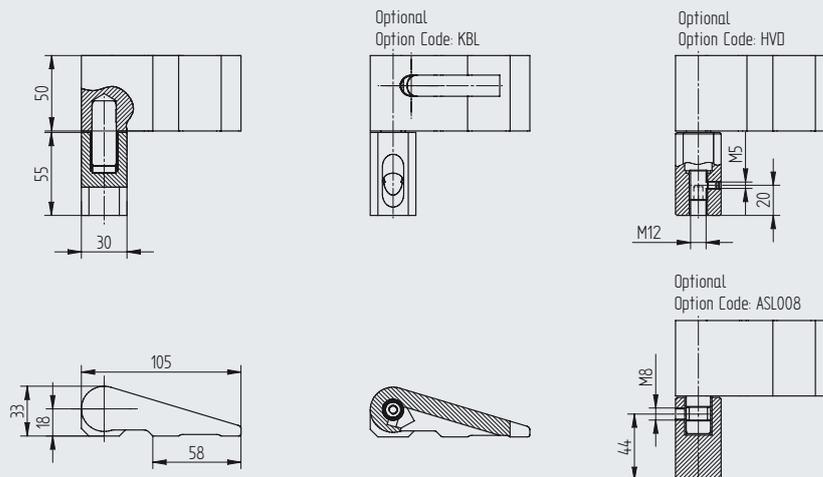
Accessories

- 1 cap, plastic, gold coloured, Ø 28 mm
- 1 cap, plastic, satin chrome, Ø 28 mm
- 1 cap, aluminium EV1 anodised, Ø 28 mm

Order number

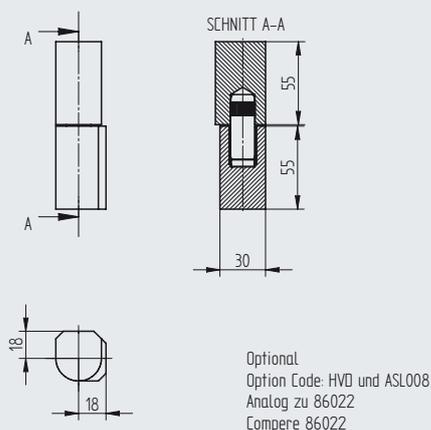
- 3 118 000 400
- 3 118 000 040
- 3 118 000 390

Scale 1:5



86022 Relino 106

Scale 1:5

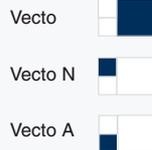


86027 Relino 106 K

86101 Vecto 86102 Vecto N

Key guide for standard keys.
The guide is available for key retaining and non key retaining locks.

In combination with the corresponding Kaba Mauer locks the keyhole cross sections of the key guides are accepted by the VdS.



132

Basic Features & Options

Key guide
Vecto - standard

Specifications
Suitable for standard keys with stem diameter up to 7 mm
Drawn steel section, blank, spot welded
Length 100 mm
Weight approx. 280 g

Options
Pair of section steel halves, not spot welded, 1 m

Order code
86101

Key guide
Vecto N - standard

Specifications
Suitable for key carrier 86124 Servant K and key carrier set 94012 Servant R,
only for use in conjunction with key retaining locks
Drawn steel section, blank, spot welded
Length 100 mm
Weight approx. 300 g

Options
Pair of section steel halves, not spot welded, 1 m

Order code
86102

Key guide
Vecto A - standard

Specifications
Suitable for key carrier 86124 Servant K, only for use in conjunction with non key retaining locks
Drawn steel section, blank, spot welded
Length 100 mm
Weight approx. 300 g

Options
Pair of section steel halves, not spot welded, 1 m

Order code
86103

Options

Options
Key guide surface treated
Key guide in other lengths on request

Option code
SFO



86203 Relocker B

Relockers besides bolt works are used as additional blocking elements in door constructions.

They operate by means of stretching wires or tightening cords which safeguard preferred manipulation points. In case of destruction of the wires or cords the blocking bolt moves into a self-blocking position.

Basic Features

Blocking bolt
Relocker B - standard

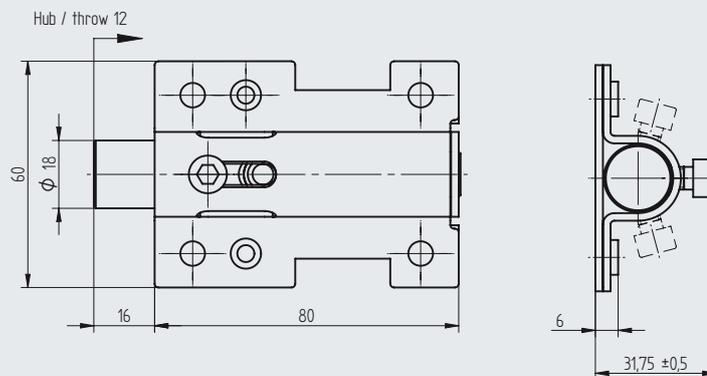
Specifications

Blocking bolt \varnothing 18 mm
Steel surface treated
Throw 15 mm, detent in blocking position
Weight approx. 250 g

Order code
86203/0001

133

Scale 1:2



86301 Combi Drive

Drive mechanism for mechanical 3 wheel or 4 wheel (optional) mechanical combination locks.

The Combi Drive increases the manipulation protection of mechanical combination locks.



134

Basic Features

Indirect drive
Combi Drive - standard

Specifications

- For 3 wheel combination locks with standard footprint
- Base plate steel, surface treated
- Die-cast housing, surface treated
- Gearwheels brass
- Drive 42 mm off-centre
- Stop plate for spline securing, 2 screws M4 x 10 mm, mounting tool
- Admissible mounting position of lock: bolt left
- Weight approx. 365 g

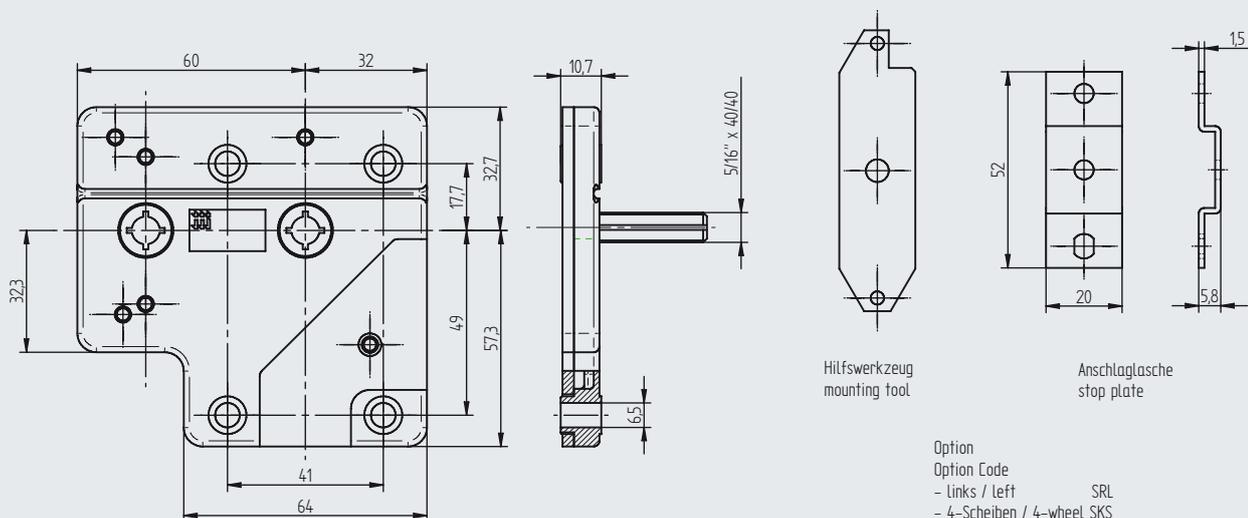
Order code
86301

Options

Options
Admissible mounting position of lock: bolt right
For 4 wheel combination locks with standard footprint

Option code
SRL
SKS

Scale 1:2





87011 DepoBox 195
87016 DepoBox 194

High-quality cash box for night deposit safes made of drawn steel.

The DepoBox is supplied with flat keys or with drilled single-bitted keys.

Basic Features & Keys

Box for night deposit safes
DepoBox 195 - standard

Specifications

Casing 195 x 111 x 61 mm, sheet steel 1.5 mm thick, nickel-plated
 Key retained when in open position
 Weight approx. 1,050 g

Order code
 87011

Box for night deposit safes
DepoBox 194 - standard

Specifications

Casing 194 x 108 x 59 mm, sheet steel 1.5 mm thick, nickel-plated
 Key retained when in open position
 Weight approx. 1,000 g

Order code
 87016

Keys

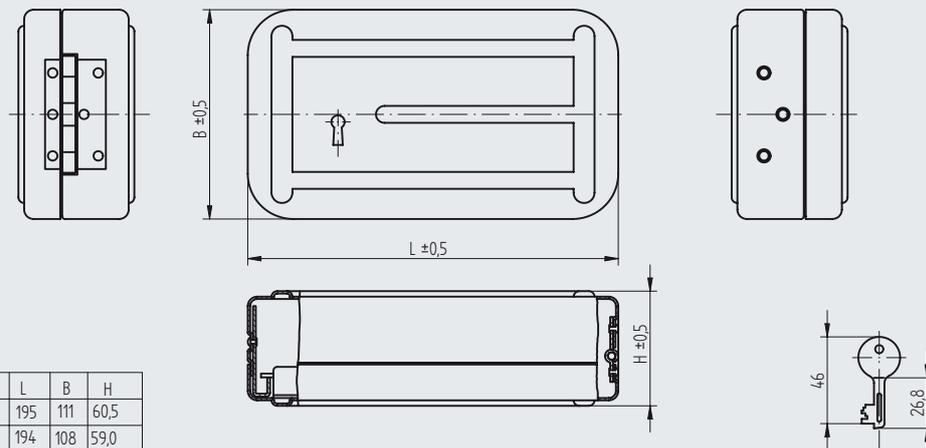
Material	Length [mm]	Key bow
Flat key, keyed alike, nickel-plated		
Steel	48.5	Round
Drilled single-bitted key, keyed alike, nickel-plated		
Steel	50	Oval

Option code

EFT048

EGT050

Scale 1:2



	L	B	H
87011	195	111	60,5
87016	194	108	59,0

94011 Arvant R

If a bolt work with two locks and a defined opening order is used, the filling device serves as manipulation protection for the second opened key lock.

In case the safe is locked, the filling device is fixed by means of the mechanic of the first lock. That way it fills the keyhole of the second lock.



136

Basic Features

Filling device
Arvant R - standard

Specifications

Diameter 88 mm, polished aluminium EV1 anodised
Profile assembled, projecting 137.5 mm, steel blank
Weight approx. 440 g

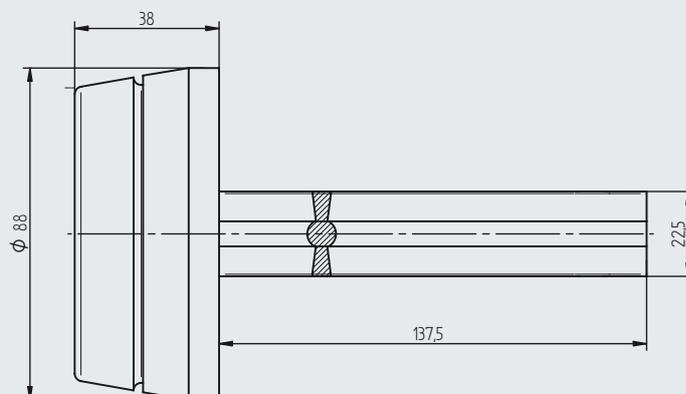
Order code
94011

Options

Options
Profile with drilling protection
Key carrier set in other lengths on request

Option code
PSB

Scale 1:2



94012 Servant R
86124 Servant K



In case a bolt work with with locks and a defined opening order is used, the key carrier serves as actuator and manipulation protection of the key lock which is opened secondly.

- Detachable bit part with 94012 Servant R
- Detachable bit part with 86124 Servant K



Basic Features

Key carrier set
Servant R - standard

Specifications

Only for 70011 Primus C

Diameter 88 mm, polished aluminium, EV1 anodised
Key carrier partially assembled, with loose fixing pin, projecting 155.5 mm
Key carrier suitable for doors up to approx. 170 mm (incl. height of bolt work)
Weight approx. 450 g

Order code
94012

Key carrier
Servant K

Specifications

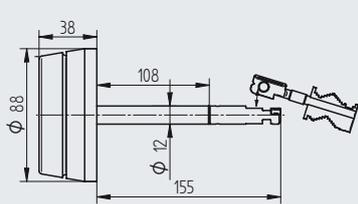
Only for 70011 Primus C, 70076 Variator B, 70079 Praetor B, 70091 Variator A

Key carrier with foldable bow, partially assembled, with loose fixing pin, projecting 155.5 mm
Key carrier suitable for doors up to approx. 170 mm (incl. height of bolt work)
Weight approx. 450 g

Order code
86124

NB: Key carrier set in other lengths on request. Detachable bit part has to be ordered separately.

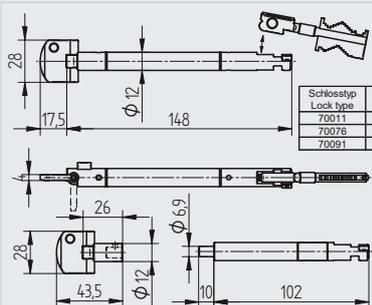
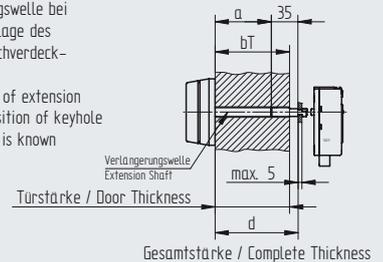
Scale 1:5



Berechnung der Verlagerungswelle bei bekannter Lage des Schlüsselschloss 70011
Calculation of extension shaft if position of Lock 70011 is known
 $a = (b + 34) - 96 + 7$

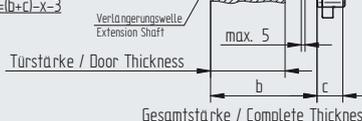


Berechnung der Verlagerungswelle bei bekannter Lage des Schlüsselverdeck-schiebers
Calculation of extension shaft if position of keyhole cover slide is known
 $a = (d - 35) + 1$

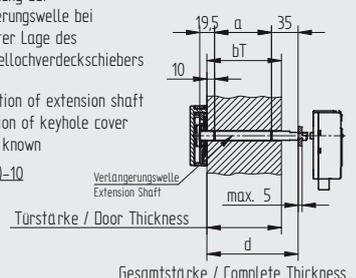


Schloßtyp Lock type	Maß c Measure c	Maß x Measure c
70011	34 mm	96 mm
70076	26 mm	88 mm
70091	21.8 mm	83.8 mm

Berechnung der Verlagerungswelle bei bekannter Lage des Schlüsselschloss
Calculation of extension shaft if position of key lock is known
 $a = (b + c) - x - 3$



Berechnung der Verlagerungswelle bei bekannter Lage des Schlüsselverdeck-schiebers
Calculation of extension shaft if position of keyhole cover slide is known
 $a = (d - 35) - 10$





Fittings: Handles

Our product range of fittings and locks is completed by our offer of handles. Choose our high quality aluminium or die-cast handles of timeless design or the latest plastic designs.

Overview



Juno 115

Handle, polished aluminium EV1 anodised
Length 115 mm, square spindle 8 mm (11 mm opt.)



Idas 135

Handle, polished aluminium EV1 anodised
Length 135 mm, square spindle 8 mm (11 mm opt.), screw-on rosette



Abas 155

Handle, polished aluminium EV1 anodised
Length 155 mm, square spindle 8 mm (11 mm opt.), push-on rosette

Order code

90005

90011

90023

P

140

141

142

	Overview	Order code	P
	Medos 205 Handle, polished aluminium EV1 anodised Length 205 mm, square spindle □ 11 mm, screw-on rosette (opt.)	90027	143
	Talos 210 Handle, polished aluminium EV1 anodised, Length 210 mm, square spindle □ 11 mm, push-on rosette (opt.)	90029	144
	Talos 150 Handle, polished aluminium EV1 anodised Length 150 mm, square spindle □ 8 mm (□ 11 mm opt.), screw-on rosette (opt.)	90030	144
	Talos 125 Handle, polished aluminium EV1 anodised Length 125 mm, square spindle □ 8 mm (□ 11 mm opt.)	90032	144
	Ceres 143 Handle, polished aluminium EV1 anodised Length 143 mm, square spindle □ 8 mm (□ 11 mm opt.), screw-on/push-on rosette (opt.)	90035	146
	Ceres 163 Handle, polished aluminium EV1 anodised Length 163 mm, square spindle □ 8 mm (□ 11 mm opt.), screw-on/push-on rosette (opt.)	90037	146
	Alea Handle, polished aluminium EV1 anodised Ø 97 mm, square spindle □ 8 mm	91063	148
	Alea K Handle, polished aluminium EV1 anodised Ø 97 mm, square spindle □ 8 mm	91065	148
	Alea B Handle, polished aluminium EV1 anodised Ø 97 mm, square spindle □ 8 mm	91080	148
	Ilos Handle, polished aluminium EV1 anodised Length 156 mm, interior width 100 mm	92041	150
	Pallas Handle, die-cast, coated, black Ø 100 mm, square spindle □ 8 mm	91037	151
	Univers Handle Length 98 mm, 2-colour plastic, square spindle □ 8 mm	90045	152

90005
Juno 115



140

Basic Features

Handle
Juno 115 - standard

Specifications
Handle 115 mm
Polished aluminium EV1 anodised
Square spindle \square 8 mm, projecting 120 mm, steel tin coated
Loose bearing bush, external diameter 20 mm, brass
Weight approx. 200 g

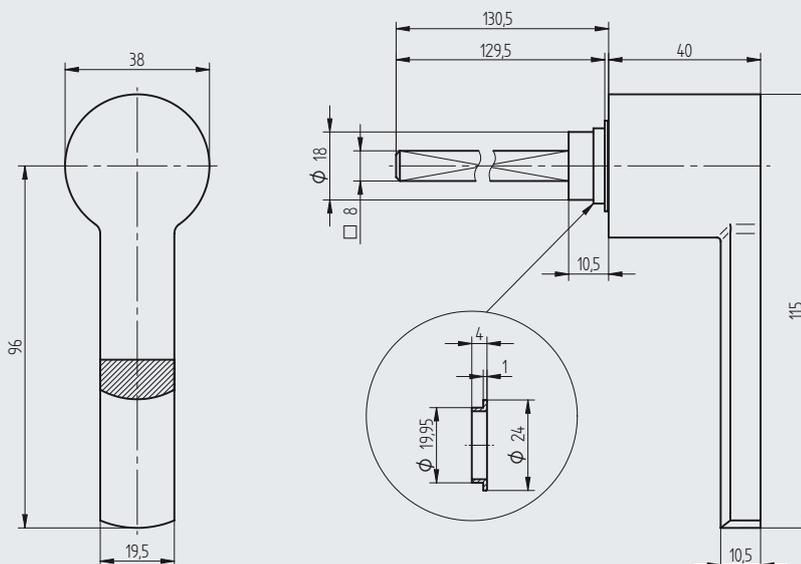
Order code
90005

Options

Options
Square spindle \square 11 mm, steel blank
Square spindle in other lengths, steel blank (minimum order 100 units)
Coated, black

Option code
VKS011
VKVxxx
OKS

Scale 1:2



90023 Abas 155



142

Basic Features

Handle
Abas 155 - standard

Specifications

Handle 155 mm
Polished aluminium EV1 anodised
Square spindle \square 8 mm, projecting 114 mm, steel tin coated
Square push-on rosette 90 mm, polished aluminium EV1 anodised,
2 slotted pins, integrated bearing bush
Weight approx. 500 g

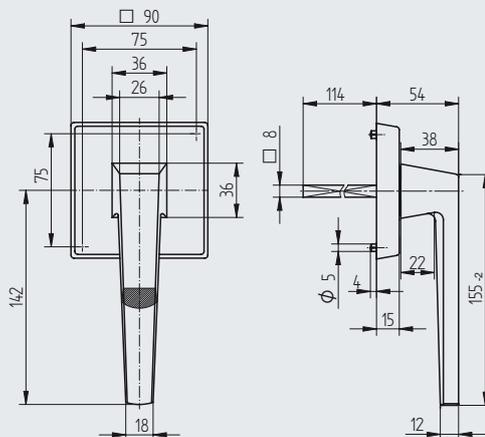
Order code
90023

Options

Options
Square spindle \square 11 mm, steel blank
Square spindle in other lengths, steel blank (minimum order 100 units)
Coated, black

Option code
VKS011
VKVxxx
OKS

Scale 1:5





90027
Medos 205

Basic Features

Handle
Medos 205 - standard

Specifications

Handle 205 mm
Polished aluminium EV1 anodised
Square spindle \square 11 mm, projecting 158.5 mm, steel blank
Loose bearing bush, external diameter 25 mm, brass
Weight approx. 610 g

Options

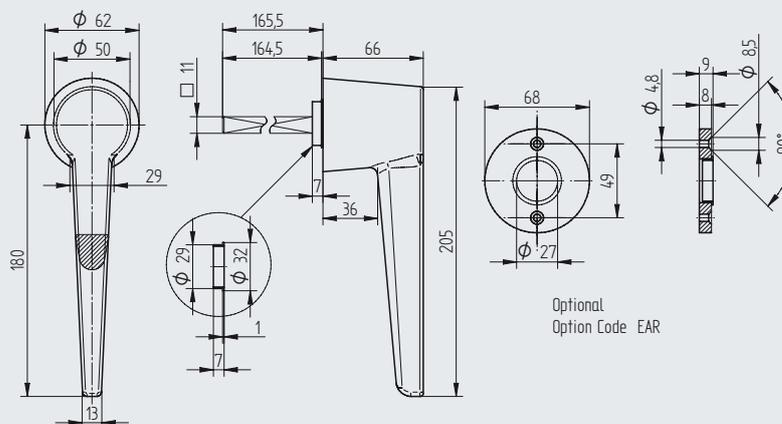
Options
Square spindle in other lengths, steel blank (minimum order 100 units)
Coated, black
Screw-on rosette, \varnothing 68 x 8 mm, polished aluminium EV1 anodised,
2 sunk holes, integrated bearing bush, brass

143

Order code
90027

Option code
VKVxxx
OKS
EAR

Scale 1:5



90029 Talos 210
90030 Talos 150
90032 Talos 125



144

Basic Features & Options

Handle
Talos 210 - standard

Specifications
 Handle 210 mm
 Polished aluminium EV1 anodised, square spindle □ 11 mm, projecting 160 mm, steel blank
 Loose bearing bush, external diameter 25 mm, brass
 Weight approx. 630 g

Options
 Square spindle in other lengths, steel blank (minimum order 100 units)
 Coated, black
 Conical push-on rosette, Ø 65/70 x 14 mm, polished aluminium EV1 anodised,
 2 slotted pins, integrated bearing bush, brass

Order code
 90029

Option code
 VKVxxx
 OKS
 KSR

Handle
Talos 150 - standard

Specifications
 Handle 150 mm
 Polished aluminium EV1 anodised, square spindle □ 8 mm, projecting 120 mm, steel tin coated
 Loose bearing bush, external diameter 20 mm, brass
 Weight approx. 350 g

Options
 Square spindle □ 11 mm, steel blank
 Square spindle in other lengths, steel blank (minimum order 100 units)
 Coated, black
 Screw-on rosette, Ø 57 x 6 mm, polished aluminium EV1 anodised,
 3 sunk holes, integrated bearing bush, brass

Order code
 90030

Option code
 VKS011
 VKVxxx
 OKS
 EAR

Handle
Talos 125 - standard

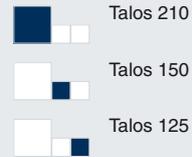
Specifications
 Handle 125 mm
 Polished aluminium EV1 anodised, square spindle □ 8 mm, projecting 120 mm, steel tin coated
 Loose bearing bush, external diameter 20 mm, brass
 Weight approx. 200 g

Options
 Square spindle □ 11 mm, steel blank
 Square spindle in other lengths, steel blank (minimum order 100 units)
 Coated, black

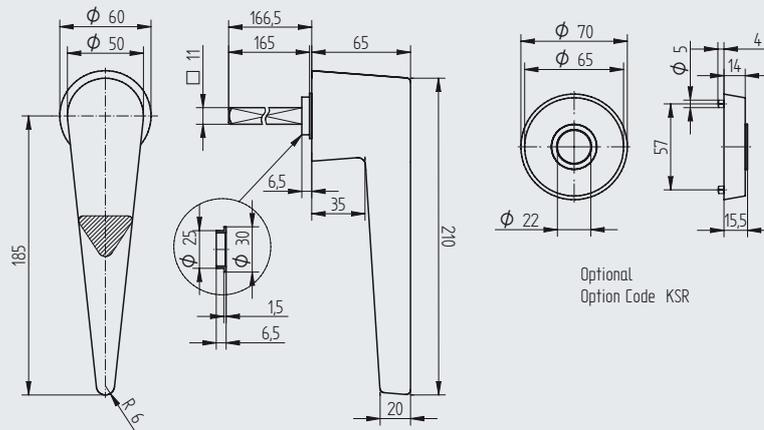
Order code
 90032

Option code
 VKS011
 VKVxxx
 OKS

90029 Talos 210
 90030 Talos 150
 90032 Talos 125

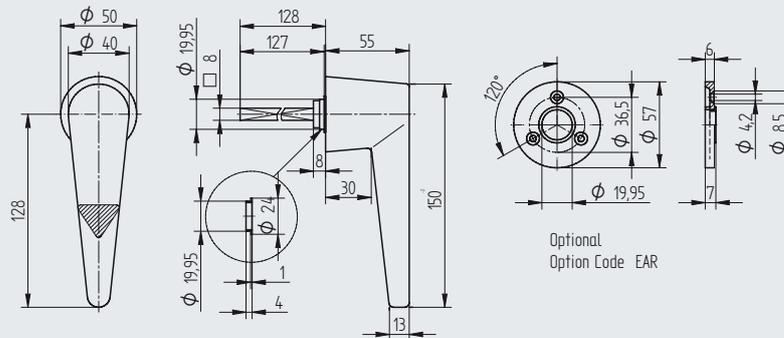


Scale 1:5



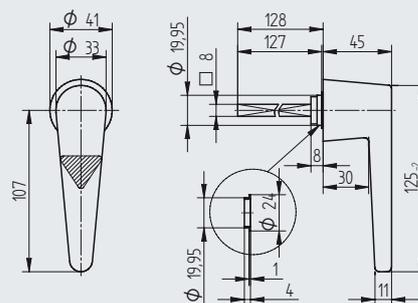
90029 Talos 210

Scale 1:5



90030 Talos 150

Scale 1:5



90032 Talos 125

90035 Ceres 143
90037 Ceres 163



146

Basic Features

Handle
Ceres 143 - standard

Specifications
 Handle 143 mm
 Polished aluminium EV1 anodised
 Square spindle □ 8 mm, projecting 120 mm, steel tin coated
 Loose bearing bush, external diameter 20 mm, brass
 Weight approx. 340 g

Order code
 90035

Handle
Ceres 163 - standard

Specifications
 Handle 163 mm
 Polished aluminium EV1 anodised
 Square spindle □ 8 mm, projecting 120 mm, steel tin coated
 Loose bearing bush, external diameter 20 mm, brass
 Weight approx. 430 g

Order code
 90037

Options

Options
 Square spindle □ 11 mm, steel blank
 Square spindle in other lengths, steel blank (minimum order 100 units)
 Coated, black
 Square push-on rosette, 90 mm, polished aluminium EV1 anodised,
 2 slotted pins, integrated bearing bush, brass
 Screw-on rosette, Ø 57 x 6 mm, polished aluminium EV1 anodised,
 3 sunk holes, integrated bearing bush, brass

Option code
 VKS011
 VKVxxx
 OKS
 EKR

 EAR

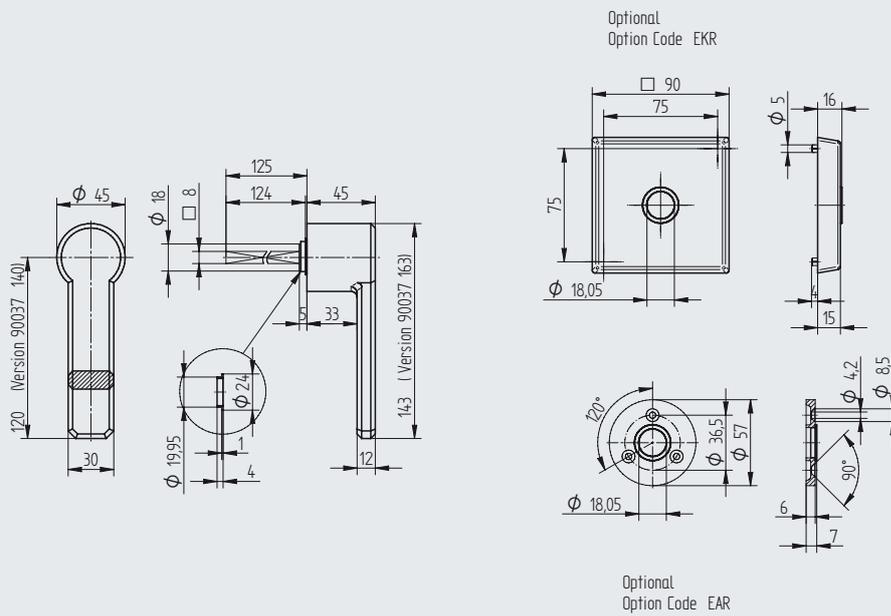
90035 Ceres 143

90037 Ceres 163



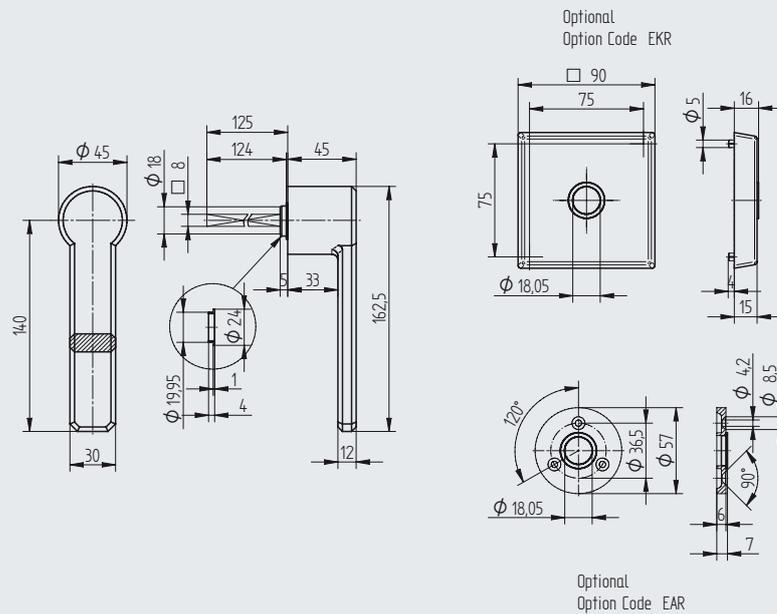
-  Ceres 143/163
-  Ceres 143/163 with screw-on rosette (opt.)
-  Ceres 143/163 with square push-on rosette (opt.)

Scale 1:5



90035 Ceres 143

Scale 1:5



90037 Ceres 163

91063 Alea
91065 Alea K
91080 Alea B



148

Basic Features

Handle
Alea - standard

Specifications
 Hinged handle with bar
 Fitting Ø 97 mm
 Polished aluminium EV1 anodised
 Square spindle □ 8 mm, projecting 120 mm, steel tin coated
 Weight approx. 250 g

Order code
 91063

Handle
Alea K - standard

Specifications
 Hinged handle with finger recess
 Fitting Ø 97 mm
 Polished aluminium EV1 anodised
 Square spindle □ 8 mm, projecting 120 mm, steel tin coated
 Weight approx. 200 g

Order code
 91065

Handle
Alea B - standard

Specifications
 Bar handle
 Fitting Ø 97 mm
 Polished aluminium EV1 anodised
 Square spindle □ 8 mm, projecting 120 mm, steel tin coated
 Weight approx. 200 g

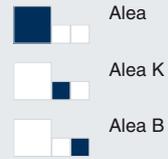
Order code
 91080

Options

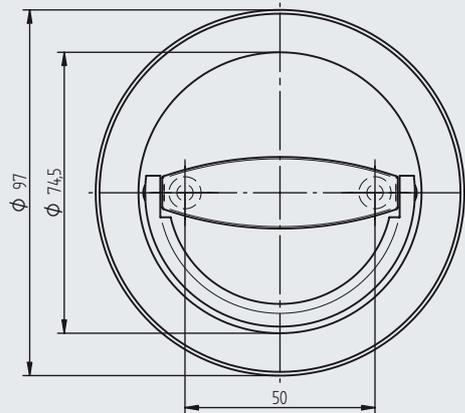
Options
 Square spindle □ 11 mm, steel blank
 Square spindle in other lengths, steel blank (minimum order 100 units)
 Coated, black

Option code
 VKS011
 VKVxxx
 OKS

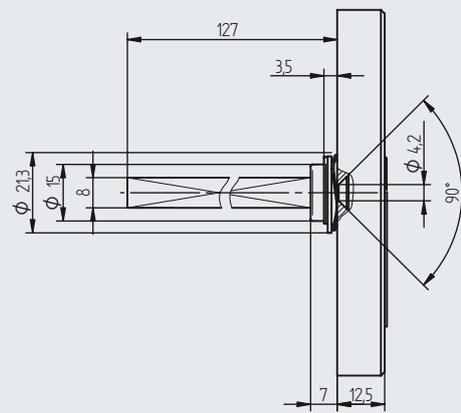
91063 Alea
91065 Alea K
91080 Alea B



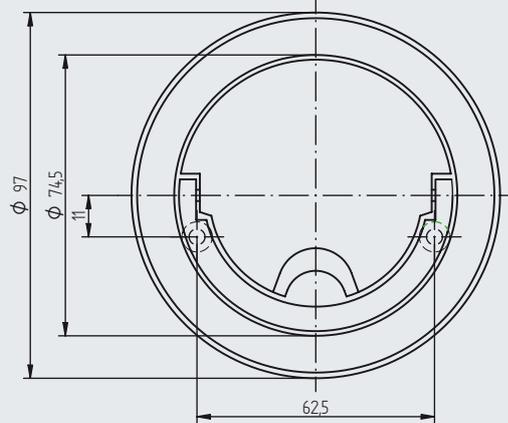
Scale 1:2



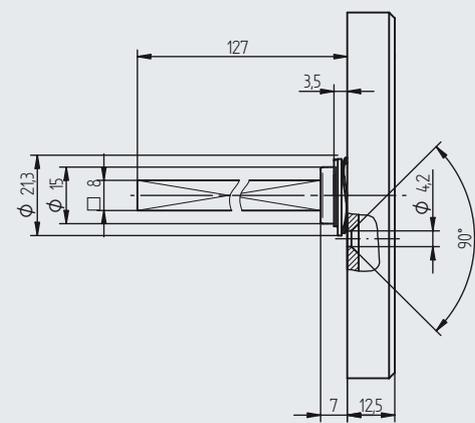
91063 Alea



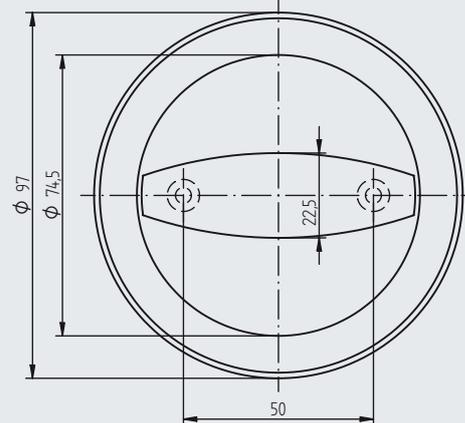
Scale 1:2



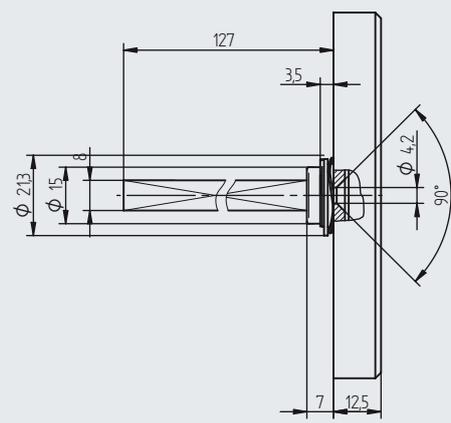
91065 Alea K



Scale 1:2



91080 Alea B



92041
Ilos



150

Basic Features

Handle
Ilos - standard

Specifications

Handle 156 mm, interior width 100 mm
Polished aluminium EV1 anodised
2 cover stoppers, plastic
Mounting from the outside of the door
Weight approx. 170 g

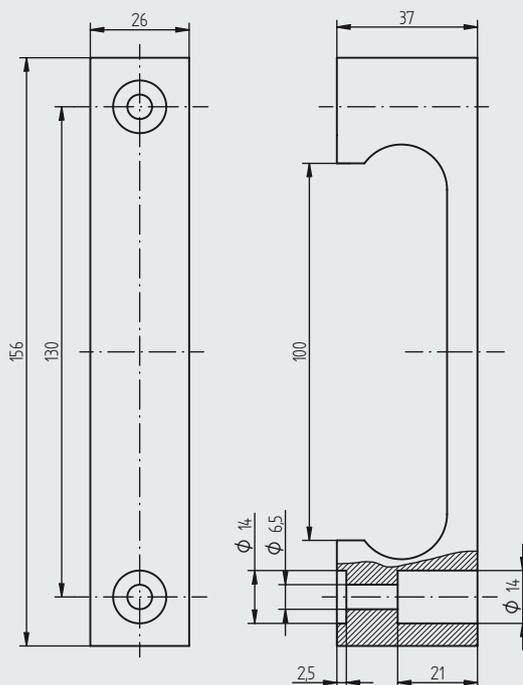
Order code
92041

Options

Options
Coated, black

Option code
OKS

Scale 1:2





91037
Pallas

Basic Features

Handle
Pallas - standard

Specifications

Handle Ø 100 mm
Die-cast, coated, black
Square spindle □ 8 mm, projecting 90 mm, steel tin coated
Loose bearing bush, external diameter 20 mm, brass
Weight approx. 300 g

Options

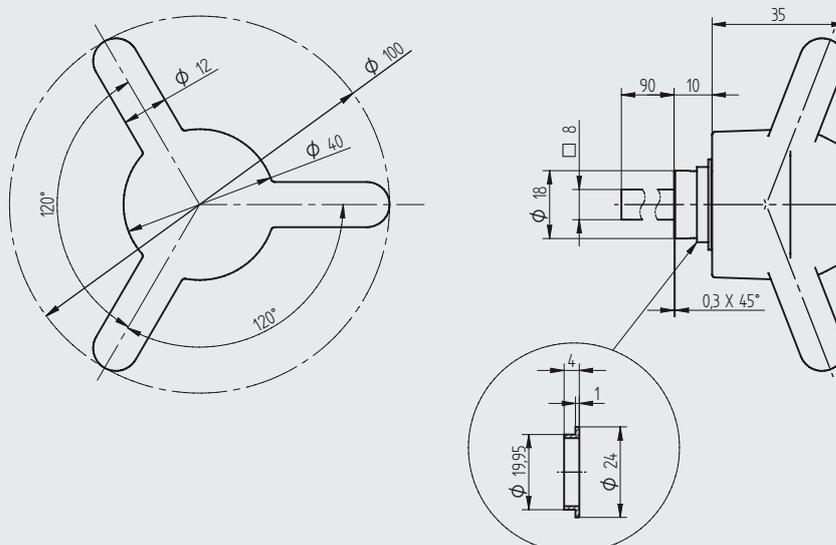
Options
Square spindle in other lengths, steel blank (minimum order 100 units)
Other coatings on request

Order code
91037

Option code
VKVxxx

151

Scale 1:2



90045 Univers

2-colour handle in high quality plastic.

Further fittings are available in this Univers series design:

- Keyhole cover 93011 Stega Univers
- Dial & ring combination 95041 Depravo Univers
- Input units of the electronic combination locks 82021 Code-Combi K and 82132 Code-Combi B



152

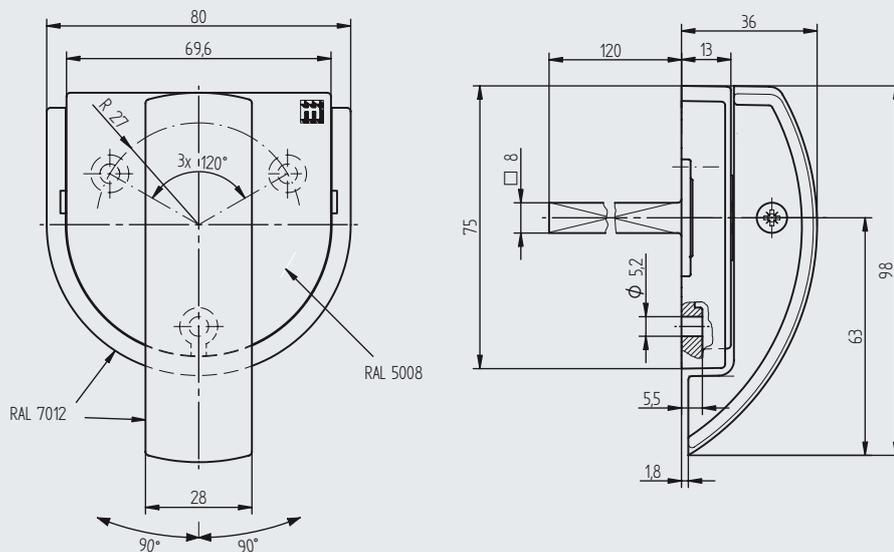
Basic Features

Handle
Univers - standard

Specifications
Handle 98 mm
Plastic, basalt grey (RAL 7012), grey blue (RAL 5008)
Square spindle \square 8 mm, projecting 120 mm, die-cast
2 screws M4 x 6.5 mm
Delivery as loose components
Weight approx. 160 g

Order code
90045

Scale 1:2





154

Fittings: Escutcheons

Kaba Mauer escutcheons add the finishing touch to a safe equipped with a key lock.

Overview



Stega 50

Escutcheon

Ø 50 mm, polished aluminium EV1 anodised, keyhole not concentric



Stega 63

Escutcheon

Ø 63 mm, polished aluminium EV1 anodised, keyhole concentric



Stega Servant

Escutcheon for key carrier Servant K 86124

Ø 80 mm, polished aluminium EV1 anodised



Decora 50

Escutcheon

Ø 50 mm, polished aluminium EV1 anodised, keyhole not concentric



Decora 63

Escutcheon

Ø 63 mm, polished aluminium EV1 anodised, keyhole concentric



Stega Univers

Escutcheon

Dimension 80 x 75 mm, 2-colour plastic, key guide rotatable

Order code

P

93000

156

93001

156

93070

156

93003

158

93004

158

93011

159

93000 Stega 50
93001 Stega 63
93070 Stega Servant



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Basic Features

Escutcheon
Stega 50 - standard

Specifications
 Ø 50 mm, polished aluminium EV1 anodised
 Keyhole not concentric
 Weight approx. 45 g

Mounting situation escutcheon
 Keyhole vertical (short bit up)



Mounting situation lock
 Bolt down

Order code
 93000

Escutcheon
Stega 63 - standard

Specifications
 Ø 63 mm, polished aluminium EV1 anodised
 Keyhole concentric
 Weight approx. 55 g

Mounting situation escutcheon
 Keyhole vertical (short bit up)



Mounting situation lock
 Bolt down

Order code
 93001

Options

Options
Mounting situation escutcheon

Keyhole vertical
 (short bit down)



Bolt up

SBU

Keyhole vertical, for non key retaining or
 changeable locks (bits in the same length)



Bolt up or down

SBG

Keyhole horizontal
 (short bit right)



Bolt left

WBR

Keyhole horizontal
 (short bit left)



Bolt right

WBL

Keyhole horizontal, for non key retaining or
 changeable locks (bits in the same length)



Bolt left or right

WBG

Option code



93000 Stega 50
 93001 Stega 63
 93070 Stega Servant

-  Stega 50
-  Stega 63
-  Stega Servant

Basic Features & Options

Escutcheon for key carrier 86124 Servant K
 Stega Servant - standard

Specifications

Ø 80 mm
 Polished aluminium EV1 anodised, pivot of cover up
 Suitable for vertical locks (bolt down)
 Weight approx. 200 g

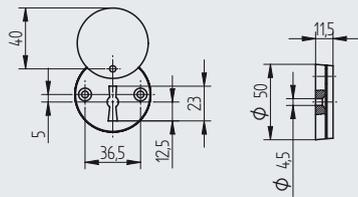
Options

Suitable for vertical locks (bolt up)

Order code
 93070

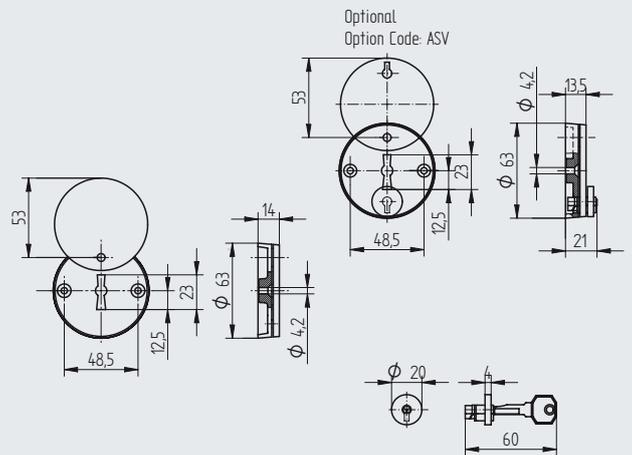
Option code
 SNR

Scale 1:5



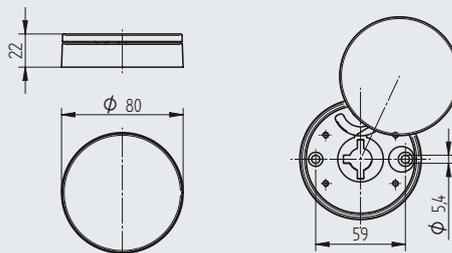
93000 Stega 50

Scale 1:5



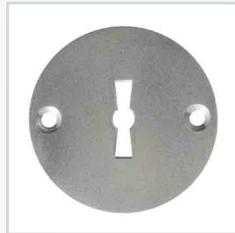
93001 Stega 63

Scale 1:5



93070 Stega Servant

93003 Decora 50
93004 Decora 63



158

Basic Features

Escutcheon
Decora 50 - standard

Specifications

Ø 50 mm, polished aluminium EV1 anodised
 Keyhole vertical, not concentric
 Short bit up
 Weight approx. 25 g

Order code
 93003

Escutcheon
Decora 63 - standard

Specifications

Ø 63 mm, polished aluminium EV1 anodised
 Keyhole vertical, concentric
 Short bit up
 Weight approx. 30 g

Order code
 93004

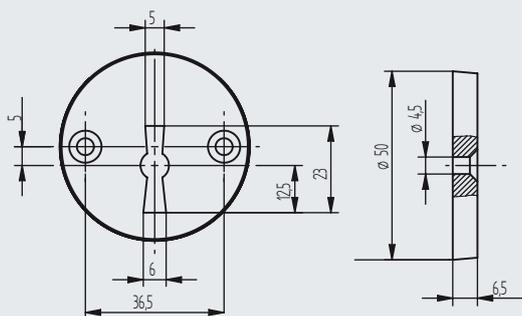
Options

Options

Short bit down
 Bits in the same length
 Coated, black

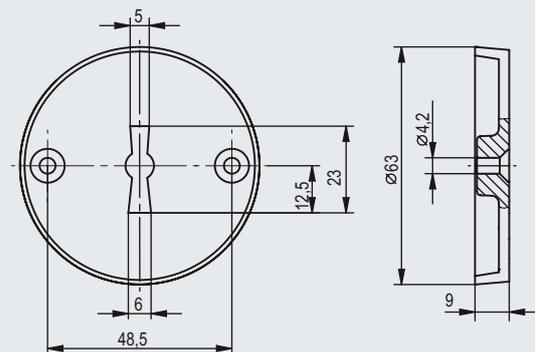
Option code
 SBU
 SBG
 OKS

Scale 1:2



93003 Decora 50

Scale 1:2



93004 Decora 63



93011 Stega Univers

2-colour escutcheon with changeable key guide in high quality plastic.

Further fittings are available in this Univers series design:

- Handle 90045 Univers
- Dial & ring combination 95041 Depravo Univers
- Input units of the electronic combination locks 82021 Code-Combi K and 82132 Code-Combi B

Basic Features

Escutcheon
Stega Univers - standard

Specifications

Plastic, basalt grey (RAL 7012), grey blue (RAL 5008)
Key guide rotatable (works setting vertical),
for non key retaining or changeable locks (bits in the same length)
Weight approx. 40 g

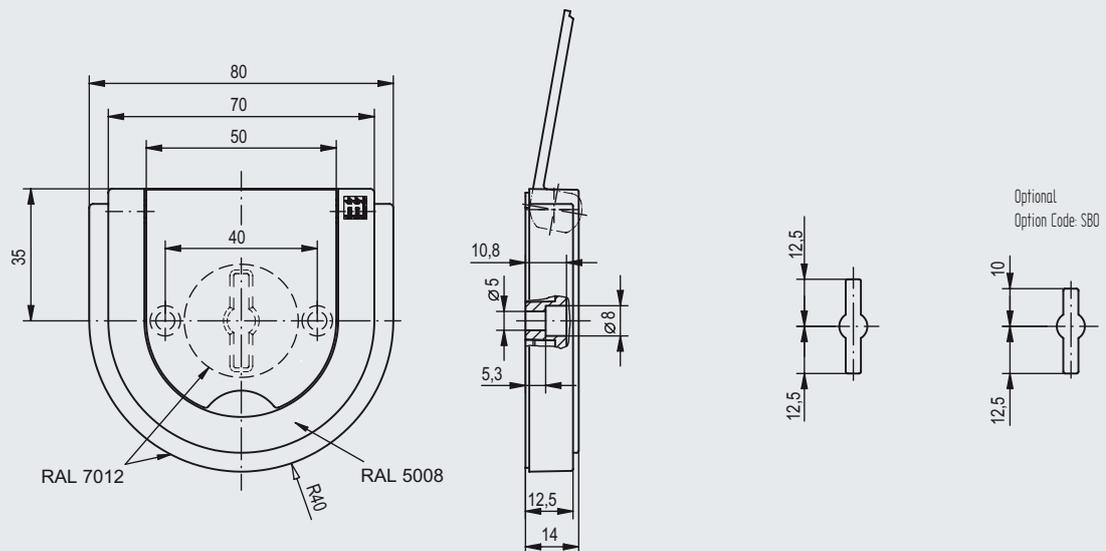
Options

Options
Key guide rotatable (works setting vertical), for key retaining locks (short bit up)

Order code
93011

Option code
SBO

Scale 1:2





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Fittings: Dial & Ring Combinations

Our dial & ring combinations are made from high quality shell-cast aluminium or die-cast. They operate the mechanical combination locks.

Overview



Depravo K

Conical dial & ring combination
External diameter 88 mm, polished aluminium EV1 anodised, top reading



Ilco D50

Conical dial & ring combination
External diameter 95 mm, die-cast, satin chrome, top reading



Depravo F

Flat dial & ring combination
External diameter 97 mm, polished aluminium EV1 anodised, front reading



Depravo Univers

Flat dial & ring combination
Dimension 80 x 75 mm, 2-colour plastic, top reading



Ilco D30

Conical dial & ring combination
External diameter 95 mm, die-cast, black/white, front reading

Order code

P

94010

162

94021

163

95025

164

95041

165

95065

166



94021 Ilco D50

The conical dial & ring combination Ilco D 50 is for the operation of mechanical combination locks.

The combination has a top reading scale with a separate change and opening marking. The dial is splined on 43.

Basic Features

Dial & ring combination
Ilco D50 - standard

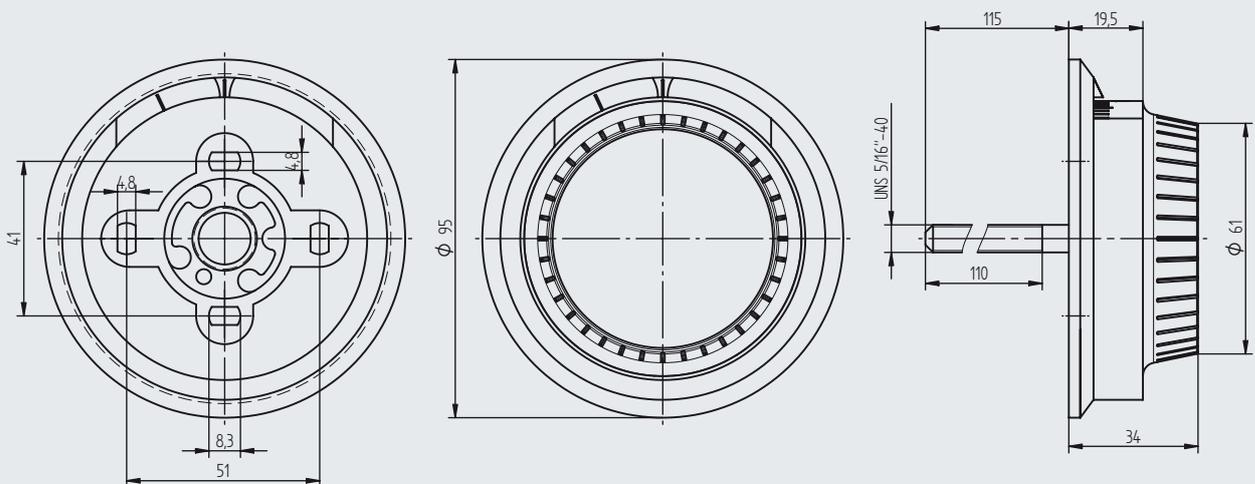
Specifications

External diameter 95 mm
Die-cast, satin chrome, black front cover
Scale: top reading, separate change and opening marking
Spindle: thread UNS 5/16"-40, die-cast, projecting 115 mm
Dial splined on 43
Suitable for Kaba Ilco Spline
Weight approx. 570 g

Order code
94021

163

Scale 1:2

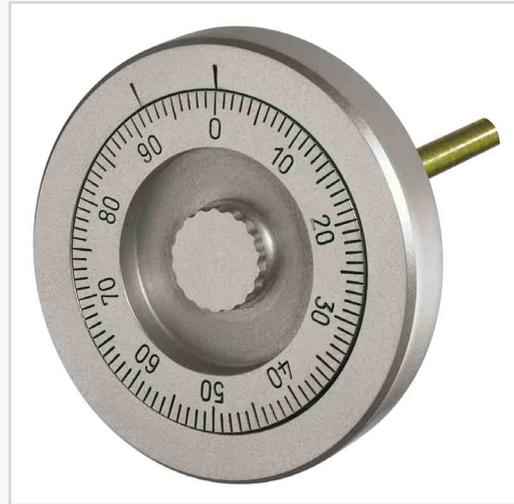


95025 Depravo F

The flat dial & ring combination Depravo F is for the operation of mechanical combination locks. It is characterised by its small height.

The combination has a front reading scale with a separate change and opening marking. The dial is splined on 50.

Different spindle lengths are available.



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Basic Features

Dial & ring combination
Depravo F - standard

Specifications

- External diameter 97 mm
- Polished aluminium EV1 anodised
- Scale: front reading, separate change and opening marking
- Spindle: thread UNS 5/16"-40, brass, projecting 120 mm (110 mm effective thread)
- Dial splined on 50
- Weight approx. 210 g

Order code
95025

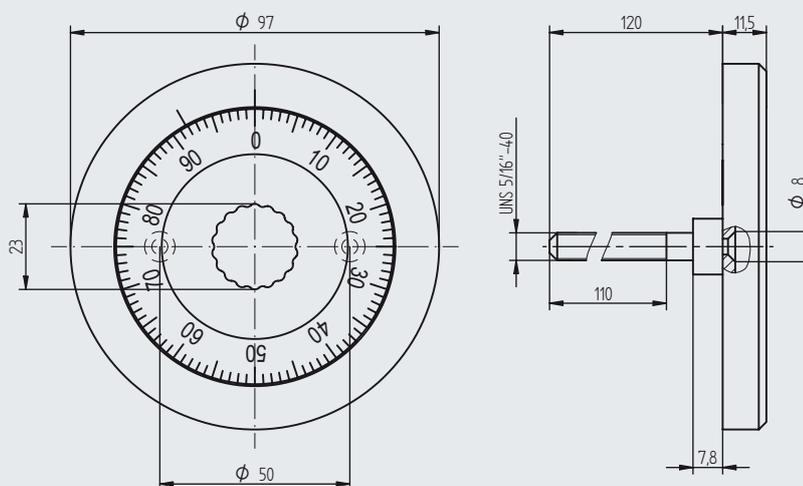
Options

Options

- Spindle projecting 43 mm (43 mm effective thread)
- Spindle projecting 200 mm (110 mm effective thread)
- Spindle projecting 300 mm (110 mm effective thread)

Option code
SPV043
SPV200
SPV300

Scale 1:2





95041 Depravo Univers

The flat dial & ring combination Depravo Univers is for the operation of mechanical combination locks. The 2-colour combination is in high quality plastic. It has a top reading scale with a separate change and opening marking. The dial is splined on 50.

Further fittings are available in this Univers series design:

- Escutcheon 93011 Stega Univers
- Handle 90045 Univers
- Input units of the electronic combination locks
82021 Code-Combi K and 82132 Code-Combi B

Basic Features

Dial & ring combination
Depravo Univers - standard

Specifications

Plastic, basalt grey (RAL 7012), grey blue (RAL 5008)
Scale: top reading, separate change and opening marking
Spindle: thread UNS 5/16"-40, brass, projecting 120 mm (110 mm effective thread)
Dial splined on 50
Weight approx. 110 g

Options

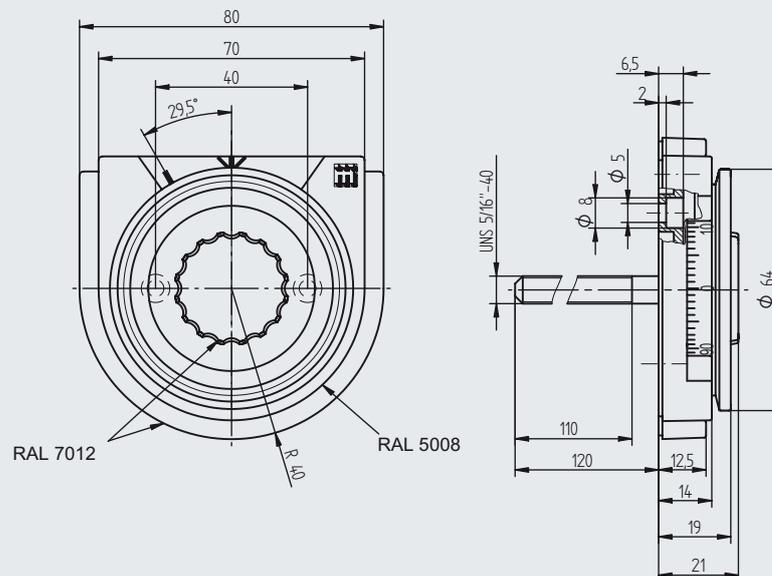
Options

Spindle projecting 43 mm (43 mm effective thread)
Spindle projecting 200 mm (110 mm effective thread)
Spindle projecting 300 mm (110 mm effective thread)

Order code
95041

Option code
SPV043
SPV200
SPV300

Scale 1:2



95065 Ilco D30

The conical dial & ring combination Ilco D30 is for the operation of mechanical combination locks.

The combination has a front reading scale with a separate change and opening marking. The dial is splined on 43.



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Basic Features

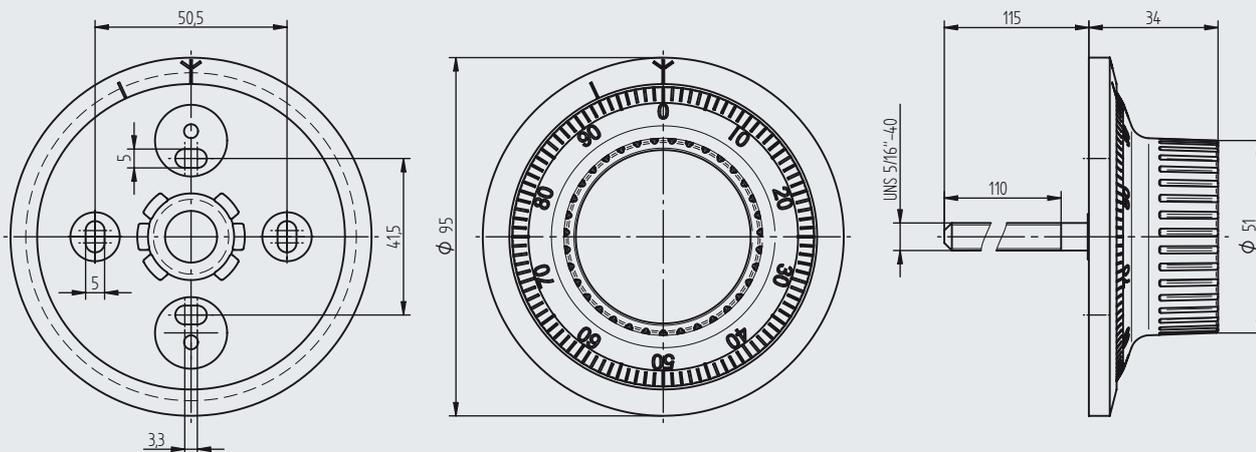
Dial & ring combination
Ilco D30 - standard

Order code
95065

Specifications

External diameter 95 mm, knob diameter 51 mm
Die-cast, black/white
Scale: front reading, separate change and opening marking
Spindle: thread UNS 5/16"-40, die-cast, projecting 115 mm
Dial splined on 43
Suitable for Kaba Ilco Spline
Weight approx. 420 g

Scale 1:2





Fittings: Combined Fittings

For high-quality safes we recommend combined fittings. They combine the functional components for lock openings with a handle for bolt works in an elegant design.

Overview



Aduno S

Combined fitting: handle/escutcheon

Polished aluminium EV1 anodised, dimensions 270 x 75 x 14 mm, square spindle 8 mm



Aduno K

Combined fitting: handle/dial & ring combination, front reading

Polished aluminium EV1 anodised, dimensions 270 x 75 x 14 mm, square spindle 8 mm



Aduno G

Combined fitting: handle/dial & ring combination, top reading

Polished aluminium EV1 anodised, dimensions 270 x 75 x 14 mm, square spindle 8 mm

Order code

P

96003

170

96071

170

96073

170

96003 Aduno S
96071 Aduno K
96073 Aduno G

The fittings combine the functional components for lock openings with a handle for bolt works.

Three different versions are available.



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Basic Features

Combined fitting: handle/escutcheon
Aduno S - standard

Polished aluminium EV1 anodised
 Plate 270 x 75 x 14 mm, 2 cover stoppers, plastic
 Escutcheon mounted, external diameter 63 mm, keyhole vertical, bits in the same length
 Handle mounted, 143 mm, square spindle □ 8 mm, projecting 116 mm, steel tin coated
 Mounting position vertical or horizontal
 Weight approx. 720 g

Order code
 96003

Combined fitting: handle/dial & ring combination, front reading
Aduno K - standard

Polished aluminium EV1 anodised
 Plate 270 x 75 x 14 mm, 2 cover stoppers, plastic
 Conical dial & ring combination mounted, external diameter 60 mm, front reading,
 spindle with thread UNS 5/16"-40, brass, dial splined on 50
 Handle mounted, 143 mm, square spindle □ 8 mm, projecting 116 mm, steel tin coated
 Mounting position vertical or horizontal
 Weight approx. 760 g

Order code
 96071

Combined fitting: handle/dial & ring combination, top reading
Aduno G - standard

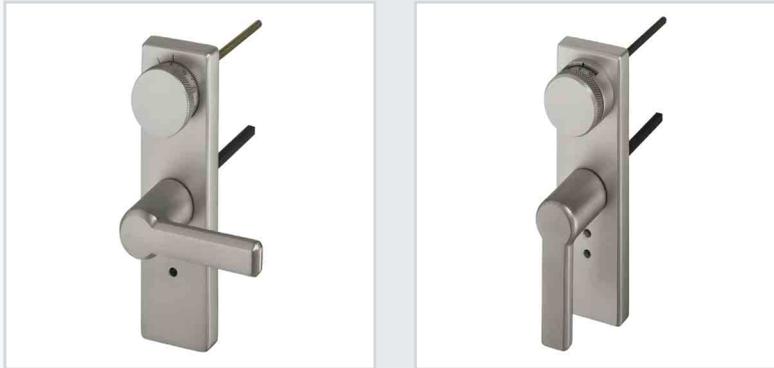
Polished aluminium EV1 anodised
 Plate 270 x 75 x 14 mm, 2 cover stoppers, plastic
 Conical dial & ring combination mounted, external diameter 60 mm, top reading,
 spindle with thread UNS 5/16"-40, brass, dial splined on 50
 Handle mounted, 143 mm, square spindle □ 8 mm, projecting 116 mm, steel tin coated
 Mounting position vertical or horizontal
 Weight approx. 810 g

Order code
 96073

Options

Options	96003	96071	96073	Option code
Square spindle □ 11 mm, steel blank	✓	✓	✓	VKS011
Square spindle in other lengths, steel blank (minimum order 100 units)	✓	✓	✓	VKVxxx
Spindle projecting 43 mm (43 mm effective thread)		✓	✓	SPV043
Spindle projecting 200 mm (110 mm effective thread)		✓	✓	SPV200
Spindle projecting 300 mm (110 mm effective thread)		✓	✓	SPV300

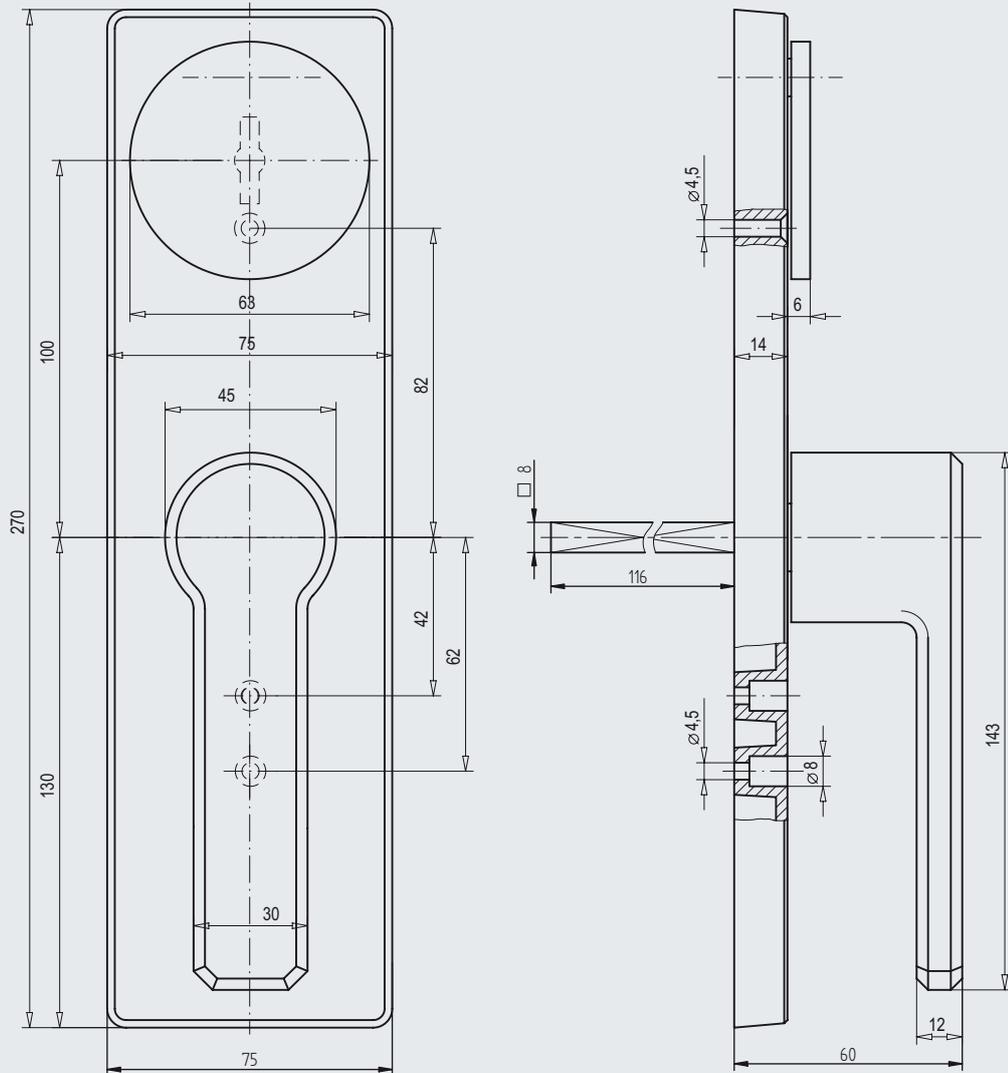
96003 Aduno S
96071 Aduno K
96073 Aduno G



-  Aduno S - handle/escutcheon
-  Aduno K - handle/dial & ring combination
-  Aduno G - handle/dial & ring combination

Scale 1:2

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1. Scope of Applicability

These general conditions of business GCB are valid for all deliveries and other services including those performed in the future. Any conditions deviating from this require our explicit written confirmation.

If the order is placed or confirmed through our contractual partner solely on the basis of their own conditions of sale, then these are hereby contradicted. We are only committed to them if we have recognised them in writing.

2. Completion of the Contract

Offers on our part are requests to place an order and remain subject to change without notice and without obligation pending our written confirmation. Any order including any placed verbally or by telex/telefax is only deemed as having been accepted after we have duly confirmed it in writing. Our written confirmation of the order is authoritative with regard to the scope of the delivery. Any supplementation, additional agreements or any other undertakings require our written confirmation. Rights deriving from the contract are not transferable without our explicit agreement. The customer or firm ordering the goods is committed to the order placed for up to four weeks after our having received this order. No claims for indemnification can be raised in respect of the order not being accepted. Obvious errors, such as printing, spelling and calculation errors are not binding on us and do not constitute any right to their fulfilment or indemnification. We reserve the right to subsequently reject an order completely or partially should the manufacture thereof prove to be particularly difficult or impossible. In such cases the ordering party cannot make any claim on us in this respect.

The appearance, the dimensions and the weight may deviate slightly from the catalogue specifications or drawings in so far as no main function of the product is impaired by this. We reserve the right to carry out alterations serving to further the technical development of the product. We are entitled to effect partial deliveries should no agreement specifically to the contrary have been reached.

Deviations in quantity up to 10% (10 per hundred) of the amount ordered are admissible should no other agreement have been concluded in writing to the contrary.

3. Technical Documents, Proprietary Rights

All the documents and/or drawings, sketches and plans placed at the disposal of the customer or prospective customer remain our property and may not be used for other purposes or passed on to third parties without our explicit written approval.

4. Prices

The prices are valid ex works. They do not include value added tax and the packaging costs. The prices applicable on the day of the delivery will be charged. All the other ancillary costs such as insurance, certification, inspections, customs duties, fees etc. are to be borne by the customer.

The right to adjust the agreed prices as a result of altered costs for raw materials, wages, taxes and the like is explicitly reserved.

5. Terms of Payment

The amount invoiced falls due net within 10 days of the date of the invoice with a 2% cash discount applying, or within 30 days. No deduction of a discount is permissible if any other demands are overdue.

Amounts invoiced up to a sum of € 100,- are payable immediately without any deduction.

Minimum order volume amount to € 65,-.

We accept bills of exchange eligible for rediscount and on which tax has been properly paid as due payment if this has been explicitly agreed. Credit entries / notes in respect of bills of exchange and cheques occur subject to receipt and due deduction of the expenses. No discount is granted for payment by bill of exchange. Any set-off against us can only occur in respect of undisputed or unappealable (*res judicata*) demands.

Deliveries made abroad are effected as a matter of principle on the basis of a letter of credit should nothing to the contrary have been agreed in writing.

In the case of the deadline for payment being exceeded, we are entitled to charge interest at least in the amount of 4% above the official discount rate of the German Federal Bank (Deutsche Bundesbank) with effect from the date on which payment fell due. We retain the right to make claims for a further loss due to the late payment.

If the customer does not comply with the terms of payment or if we become aware of circumstances likely to reduce the customer's credit-worthiness, all our demands fall due immediately irrespective of the agreed period for payment. We are also entitled to effect outstanding deliveries only on receipt of advance payment, or if this is not implemented to withdraw from the contract or to demand compensation for non-fulfilment thereof.

6. Delivery and Acceptance Deadlines

The delivery dates cited in our order confirmation are not deemed as being fundamentally binding. Revocation of the contract or any claims for compensation for non-adherence to the delivery dates is ruled out, unless the delay in delivery is based on deliberate intent or gross negligence. If we have agreed to a binding delivery date in writing, after the statutory extension of the original term by at least 14 days has expired, the customer can demand indemnification for the delay in the amount of ½% for every full week commencing with the expiry of the subsequent statutory extension. This is however limited to 5% of that part of the overall delivery which was not at their disposal in time. The customers have in every such case to prove in a credible manner that they have sustained a loss due to the delay in the delivery.

Incidents resulting from force majeure, such as war, strikes etc. release us from any claims for compensation.

If the customers fall behind with taking delivery (*mora accipiendi*), we are entitled to claim the purchase price or to withdraw from the contract or to demand compensation for non-fulfilment. If we demand compensation for non-fulfilment we are entitled to claim 15% of the price agreed as indemnification without any proof being required.

Delivery of goods ordered on call has to be taken within six months, unless agreement has been made to the contrary.

Otherwise we are entitled to the rights specified above in respect of failure to take delivery of the specific part of the order on demand.

7. Dispatch and Transfer of Risk

Dispatch will be effected even in the case of carriage paid deliveries at the expense of the buyer. The risk is transferred to the buyer as soon as the merchandise has been placed at their disposal or handed over to the forwarding agent or haulage contractor, or at the very latest on leaving the supplying works. If the dispatch is delayed due to circumstances for which we are not liable, the risk is transferred to the buyer with effect from the date on which the notice of readiness for shipment is received.

In all cases in which no specific instructions have been issued for the dispatch and accepted by us, dispatch will be effected to the best of our judgement without this entailing obligation to ensure the cheapest carriage of the goods. Insurance will only be taken out at the express wish of the customer and at their expense.

8. Complaints and Warranty

Any shortcomings in respect of incorrect or incomplete delivery, or failure to comply with the promised characteristics are to be notified in writing immediately after being ascertained and any processing or assembly work suspended. Evident faults are to be notified in writing within 8 days of receiving the goods. In the case of concealed faults the legal provisions apply with regard to the requirement to give notice of defects.

We provide a warranty for the function and material supplied within 24 months. The time-limit begins with the date of the transition of the risk.

No guarantee is provided for faults due to incorrect or inappropriate use, faulty assembly or commencement of operations by the customer or a third party, or for natural wear and tear, faulty or negligent treatment. The same applies to the consequences of inappropriate alterations or putting into operation work and repairs carried out by the customer or a third party without our approval.

We are only liable in the amount of the compensation to which our suppliers are committed towards us for those products and parts supplied which do not derive from our own production.

The guarantee extends to our obligation to provide carriage paid replacement free of charge or to carry out rectification whichever we choose on return of the faulty item(s). We can refuse to effect the guarantee as long as the customer has not paid for that part of the delivery not subject to any complaint.

Any further demands are ruled out. This applies particularly to indemnification of damage not occurring to the merchandise itself (consequential costs of the defect) in so far as the damage was not caused deliberately or grossly negligently either by managerial employees or organs of the company. In the case of features having been promised to the customer, we are liable in so far as this assurance pursued the objective of protecting the buyer specifically against consequential damage deriving from the defect.

9. Reservation of Proprietary Rights

The merchandise delivered remains our property until such time as complete payment of all the existing present and future demands deriving from the business relationship with the customer has been made, irrespective of the legal basis.

Should we have entered into a bill of exchange commitment with the settlement of the invoice, then the reservation of the ownership rights remains in effect until such time as the bill of exchange is honoured.

The buyer is entitled to use our goods in the proper course of business and in accordance with the intended use as per instructions, to process them, as well as to supply and sell them as a retailer. The buyer is not entitled to any other disposition. If our products are connected with other objects either by us on the instructions of the customer or by the customer to form a single unit, it is agreed that the customer grant us proportional co-ownership in compliance with § 947 item 1 BGB (Bürgerliches Gesetzbuch - Civil Code) and put the item in safe-keeping. In the case of goods to which we have rights of ownership, as per the above provision, being transferred, the customer immediately assigns irrevocably that proportion of his entire residual demands deriving from the contract of sale up to the amount of the remaining demands still owing to us. The customers are entitled to the collection of those debts as long as they have completely fulfilled all their commitments to us.

The customers are to notify us without delay by registered letter of any levy of distraint, seizure or any other orders effected by a third party, and at their own expense to take all the measures required to safeguard our rights.

At the customers' request we may as an option undertake to hand over the safeguards to which we are entitled in the amount that their value exceeds 25% of the debt thus secured. In the case of current invoices the reservation of ownership constitutes a safeguard for the outstanding balance. During the period in which these proprietary rights are reserved, the customers undertake to maintain the sales article in a proper condition and insure it against fire and theft and to furnish us with proof of the insurance having been duly concluded, as well as to assign their claims against the insurers to us at our request.

10. Forms, tools and devices

We charge proportional costs for the manufacture or procurement of molds or tools effected in compliance with the customers' order. Unless agreements have been made to the contrary, we remain the owners of such forms or tools and are able to dispose of them without restriction. In the case of revocation or annulment of a contract whilst still in the development stage or whilst in production, we reserve the right to charge for the entire costs incurred for molds, tools and devices in addition to our claim for compensation in respect of their failing to fulfil the contract.

11. Place of performance, venue for litigation, law applicable

The place of performance for both parties is 42579 Heiligenhaus.

The venue for litigation is at our choice 42549 Velbert (in so far as legally admissible) or the customers' principal place of business. The same applies to documents, bills of exchange and cheque proceedings. German law is exclusively valid.

The application of the standardized laws governing the international sale of movable items as well as the conclusion of international contracts of sale in respect of movable property is ruled out.

Should any provision in these conditions or in the additional agreements reached be or become invalid, then both we and the customers are obliged to replace the invalid provision with a regulation which is equivalent to it in terms of economic outcome, whilst the other provisions in the contract remain unaffected.

KABA[®]
MAUER

Kaba Mauer GmbH
Frankenstraße 8-12
D-42579 Heiligenhaus
Germany

Phone +49 (0)2056/596 - 0
Fax +49 (0)2056/596 - 139

Internet www.kaba-mauer.de
Email info@kmh.kaba.com