



**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](http://www.kaba-mauer.de)

Email [info@kmh.kaba.com](mailto:info@kmh.kaba.com)

## 2

### **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](mailto: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](mailto: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](mailto:schluessel@kmh.kaba.com)

#### **Shipping**

Germany

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

Worldwide

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

#### **Service**

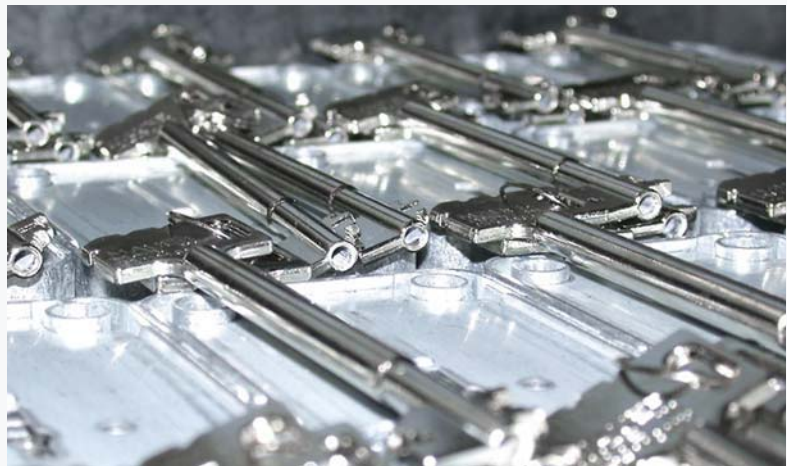
Phone +49 (0)2056/596-149, Fax +49 (0)2056/596-349, Email [service@kmh.kaba.com](mailto:service@kmh.kaba.com)

<b>Imprint</b>		2
<b>Table of Contents</b>		3
<b>Kaba Mauer GmbH</b>		4
<b>Technical Information</b>		6
	Mechanical Locks	6
	Installation Positions	7
	Electronic Locks	8
	CEN/VdS - Safe and Lock Classes	9
	Order Advice	9
 <b>Product Range</b>		
 <b>Safe Locks</b>		
	011 Mechanical Key Locks	10
	012 Electronically Controlled Key Locks	44
	013 Time Delay Key Locks	50
	014 Mechanical Combination Locks	58
	015 Electronic Combination Locks	64
 <b>Locks for Deposit Boxes &amp; Lockers</b>		
	021 Mechanical Deposit Locks	86
	022 Electronically Controlled Deposit Locks	98
	023 Locker Locks	104
 <b>Safe Components</b>		
	031 Bolt Works	112
	032 Safe Components & Accessories	122
 <b>Fittings</b>		
	041 Handles	138
	042 Escutcheons	154
	043 Dial & Ring Combinations	160
	044 Combined Fittings	168
 <b>General Conditions of Business</b>		174

## 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 theoretical 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.

### 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

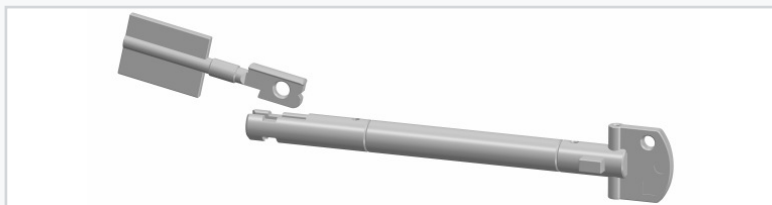


■ Rigid key

■ Foldable key

■ Detachable key

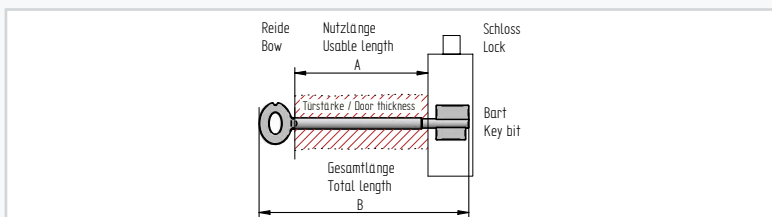
### Key carrier



■ 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.

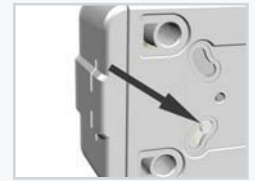
## Change methods



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.

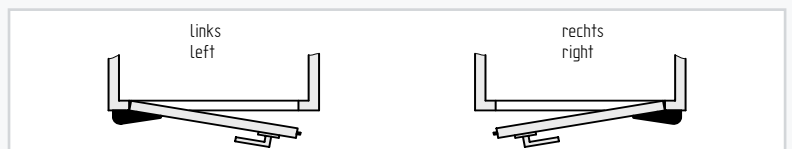
## Installation Positions

### 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

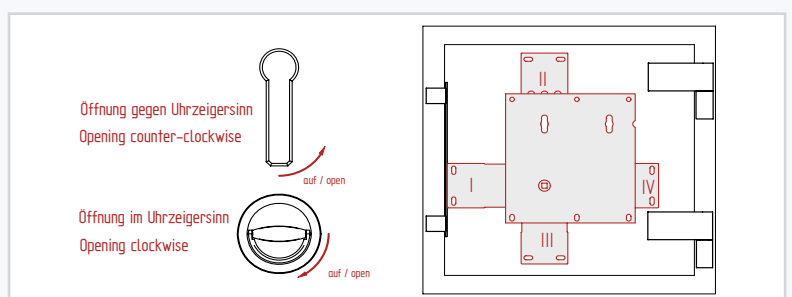
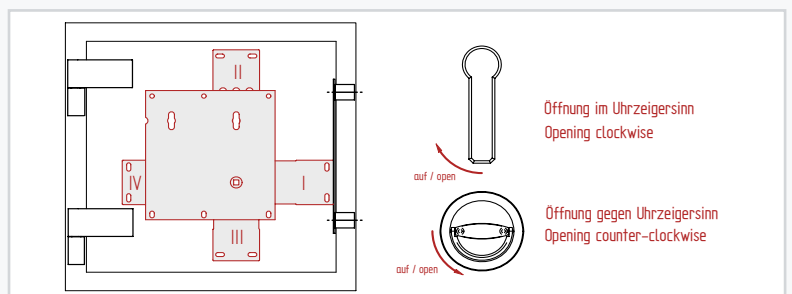
### Bolt works

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
	<b>Primus C</b> EN 1300 C, ECB-S, VdS 3, GOST C, IMP C, ICECON C 14 levers, standard footprint, dead bolt	70011	12
	<b>Variator B</b> EN 1300 B, ECB-S, VdS 2, CNPP a2p(E) Niv.B, GOST C, IMP B, ICECON C 11 levers, standard footprint, changeable, dead bolt	70076	14
	<b>Praetor B</b> EN 1300 B, ECB-S, VdS 2, CNPP a2p Niv.B, GOST C, IMP B, ICECON B <b>Praetor</b> Without any approvals/certificates 11 levers, standard footprint, dead bolt	70079 70087	16 16
	<b>Variator A</b> EN 1300 A, ECB-S, VdS 1, CNPP a2p Niv.A, DNV, GOST B, IMP A, UL 437, ICECON A 8 levers, standard footprint, changeable, dead bolt	70091	18
	<b>Convar F</b> 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
	<b>Convvar Flex</b> 8 levers, changeable, no change tool required, non key retaining, flat bolt	70095	22
	<b>Convvar B</b> CNPP a2p Niv.B or DNV (NB: locks are available either with CNPP or DNV certification) 8 levers, changeable, dead bolt	70096	24
	<b>Certus</b> 8 levers, latch bolt, lock opening by handle	71044	26
	<b>President A</b> EN 1300 A, ECB-S, VdS 1, CNPP a2p(E) Niv.A, GOST B, IMP A, UL 437, ICECON A <b>President</b> IMP A, UL 437 8 levers, standard footprint, dead bolt	71111 71113	28 28
	<b>Curator 100</b> 7 levers, dead bolt, 3-way closure, keyhole non concentric (opt.)	72016	30
	<b>Curator 80</b> For profile cylinder, dead bolt, 3-way closure (opt.), double-bitted locking (opt.)	72081	32
	<b>Tricontus A</b> EN 1300 A, ECB-S, VdS 1, GOST A, ICECON A <b>Tricontus</b> Without any approvals/certificates 8 levers, triple bolt	73042 73043	34 34
	<b>Vary</b> <b>Vary Flex</b> 8 levers, changeable, dead bolt	73071 73073	36 36
	<b>Centurio A</b> EN 1300 A, ECB-S, VdS 1, GOST A, IMP A, ICECON A <b>Centurio</b> Without any approvals/certificates 8 levers, flat bolt	74041 74043	38 38
	<b>Centurio A Plus</b> EN 1300 A, ECB-S, VdS 1, GOST A, IMP A, ICECON A <b>Centurio Plus</b> Without any approvals/certificates 8 levers, flat bolt, 3-way closure	74046 74047	40 40
	<b>Arator</b> EN 1300 A, ECB-S, VdS 1 (for use in safe deposit units), GOST A, ICECON A 7 levers, dead bolt, 2-way closure (opt.)	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.



12

### Basic Features

**Lock**  
**Primus C - standard**

#### Approvals/Certificates

EN 1300 C, ECB-S, VdS cl. 3, GOST cl. C, IMP cl. C, ICECON cl. 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
----------	---------------------	--------------------	---------

#### 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	75-305	Oval
---------------------	----------------------	--------	------

#### User double-bitted keys with detachable mechanism, nickel-plated

High-strength brass	130-360, Ø 5.6/5.8/7	75-305	Oval
---------------------	----------------------	--------	------

#### 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	-	-
---------------------	-----------------	---	---

**Option code**

DSS160

DSSxxx




DGSxxx

DESxxx

DUS071

## 70011 Primus C

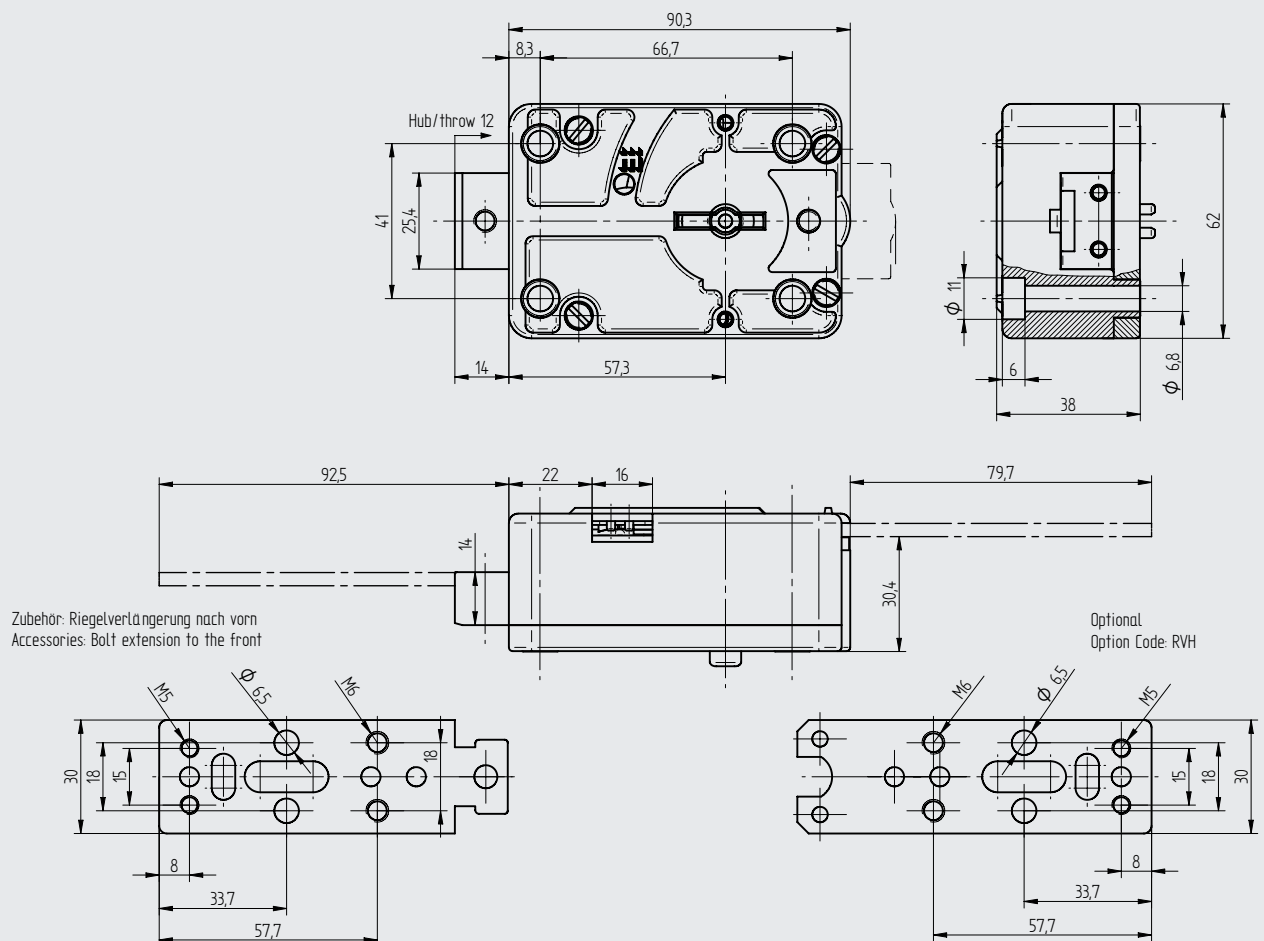


-  Lock and keys with oval bow
-  Detachable bit part with 94012 Servant R
-  Detachable bit part with 86124 Servant K



Scale 1:2

13



**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 cl. 2, CNPP a2p(E) Niveau B, GOST cl. C, IMP cl. B, ICECON cl. C

**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

**Order code**

70076

**Options & Accessories****Options**

Microswitch for bolt monitoring (2-way contact)

Lock case and bolt surface treated

Supplied in works locking mode

Bolt extension to the back

Left hand lock, opening counter-clockwise

**Option code**

RSK

SRO

AWS

RVH

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

**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

-

-

70075W0001

70075Wxxxx

**Order number**

Change activators

70090S0070

70090S0055




70090S0038

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

#### User double-bitted keys, nickel-plated

Die-cast	120, Ø 6/7	70	Mauer
Die-cast	150, Ø 6/7	100	Mauer
Die-cast	164, Ø 6/7	114	Mauer
High-strength brass	150, Ø 5.9/7	100	Oval
High-strength brass	80-360, Ø 5.9/7	30-310	Oval

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

High-strength brass	120-360, Ø 5.9/7	70-310	Oval
---------------------	------------------	--------	------

#### User double-bitted keys with detachable mechanism, nickel-plated

High-strength brass	120-360, Ø 5.9/7	70-310	Oval
---------------------	------------------	--------	------

#### Detachable bit part, nickel-plated (only for use in conjunction with 86124 Servant K)

High-strength brass	63, Ø 5.6/5.8/7	-	-
---------------------	-----------------	---	---

#### Option code

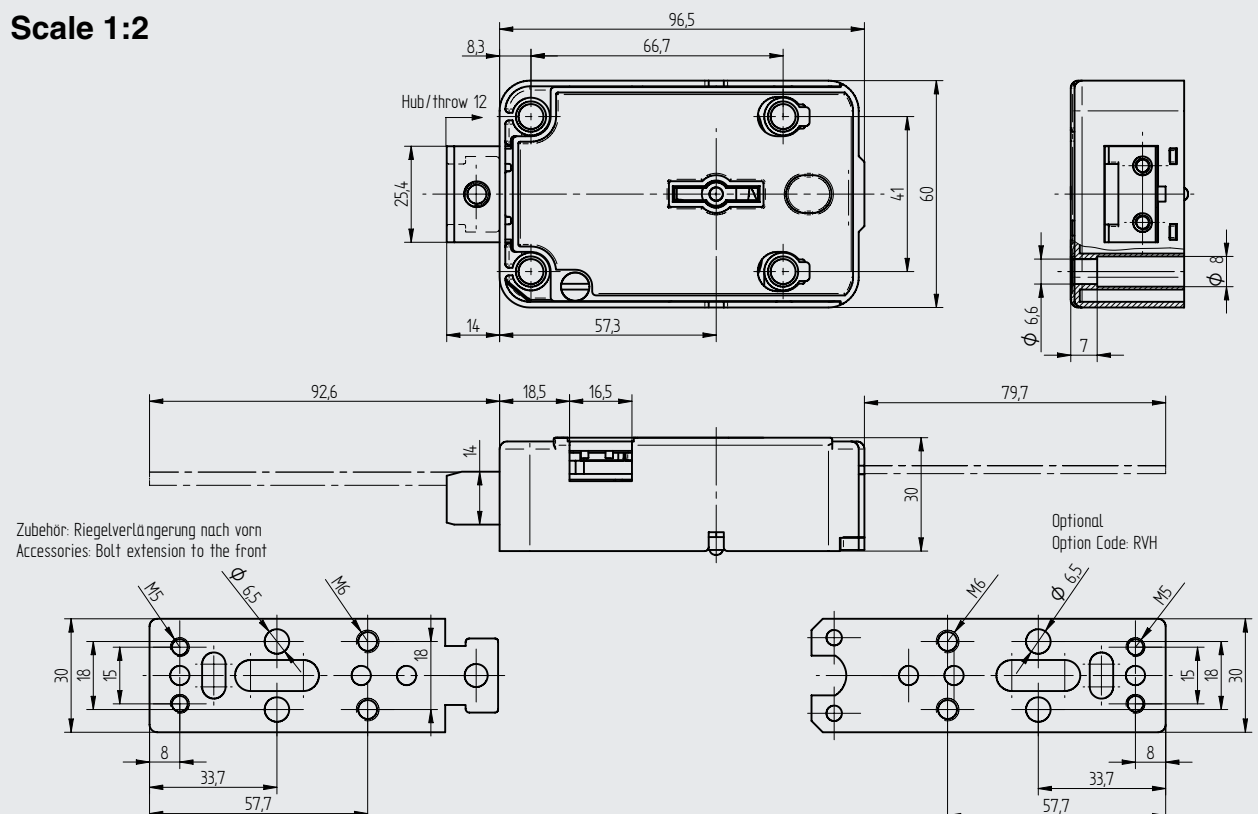
DSD120  
DSD150  
DSD164  
DSS150  
DSSxxx

DGSxxx

DESxxx

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 cl. 2, CNPP a2p Niveau B, GOST cl. C, IMP cl. B, ICECON cl. B

#### Order code

70079

#### Lock

**Praetor - standard**

Without any approvals/certificates, additional option available

#### Order code

70087

### Options & Accessories

#### Options

Microswitch for bolt monitoring (2-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
----------	---------------------	--------------------	---------

#### User double-bitted keys, nickel-plated

Die-cast	120, Ø 6/7	70	Mauer
Die-cast	150, Ø 6/7	100	Mauer
Die-cast	164, Ø 6/7	114	Mauer
High-strength brass	150, Ø 5.9/7	100	Oval
High-strength brass	80-360, Ø 5.9/7	30-310	Oval

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

High-strength brass	120-360, Ø 5.9/7	70-310	Oval
---------------------	------------------	--------	------

#### User double-bitted keys with detachable mechanism, nickel-plated

High-strength brass	120-360, Ø 5.9/7	70-310	Oval
---------------------	------------------	--------	------

#### Detachable bit part, nickel-plated (only for use in conjunction with 86124 Servant K)

High-strength brass	63, Ø 5.6/5.8/7	-	-
---------------------	-----------------	---	---

#### Option code

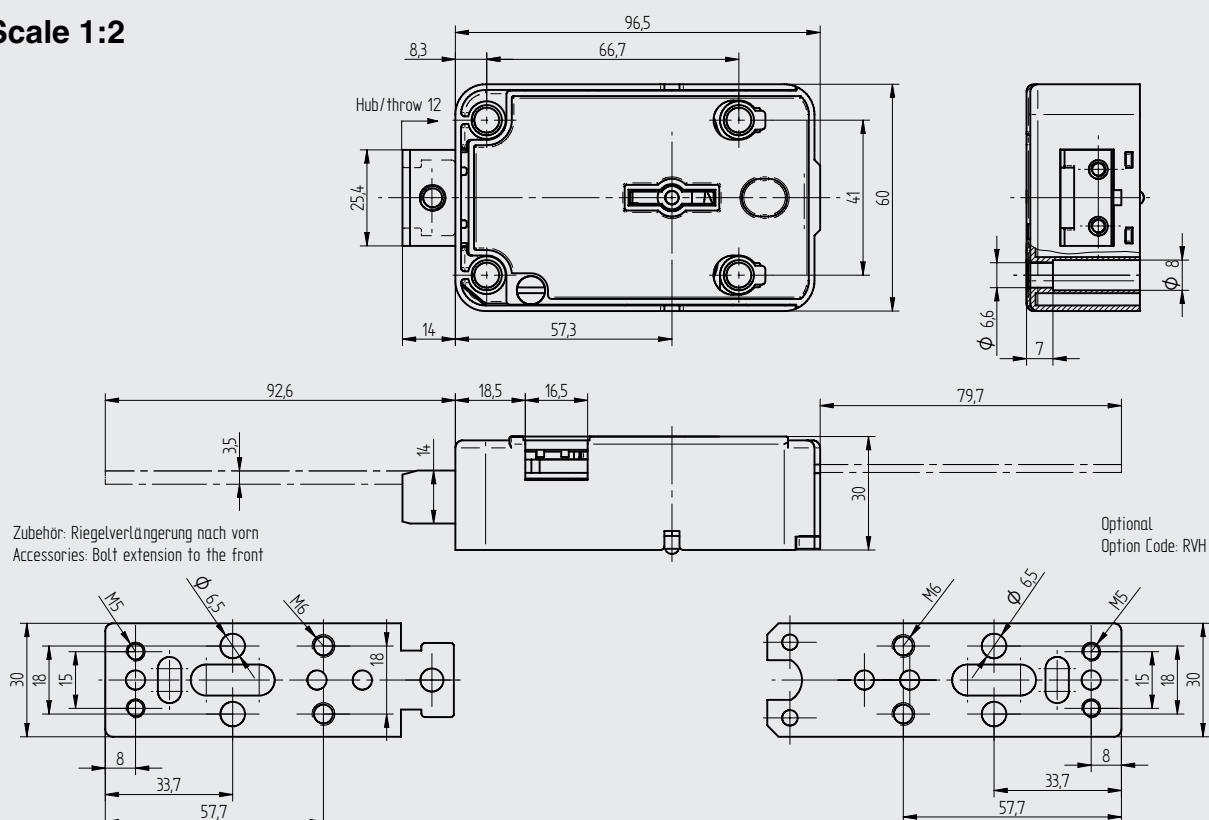
DSD120  
DSD150  
DSD164  
DSS150  
DSSxxx

DGSxxx

DESxxx

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 cl. 1, CNPP a2p Niveau A, DNV, GOST cl. B, IMP cl. A, UL 437, ICECON cl. A

#### 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 (2-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

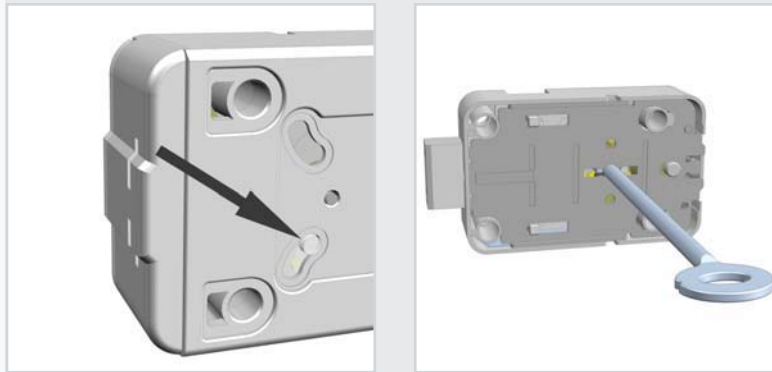
#### Accessories




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  
3 118 000 300  
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
---------------------	----------------	--------	------

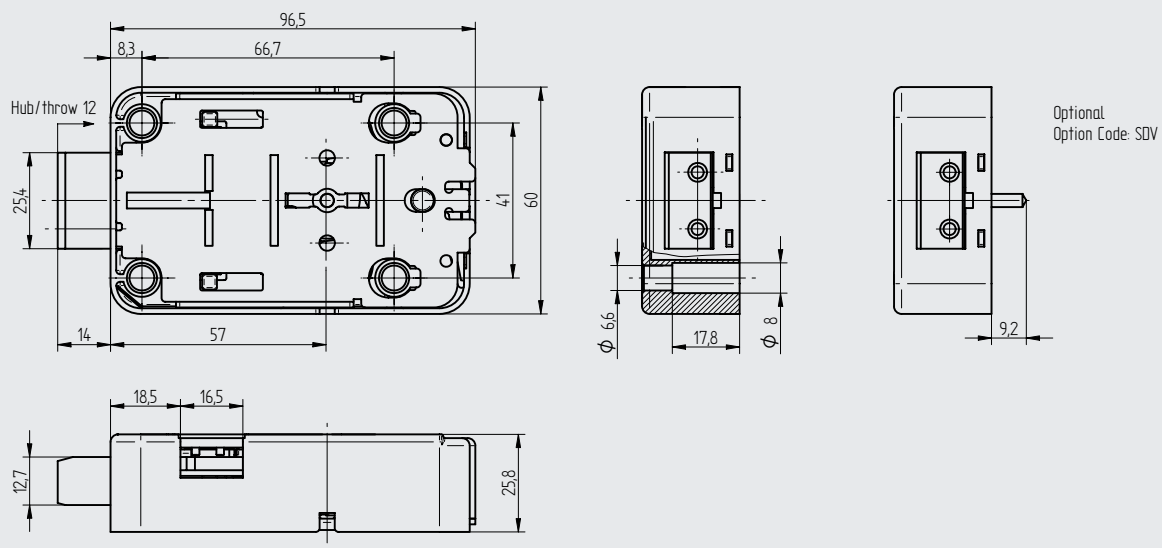
### Option code

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.



20

### 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



**Order code**  
70094

### 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

**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



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

DETxxx

Technical drawing of a 100mm x 100mm x 100mm ball bearing unit. The drawing includes three views: a top view, a side view, and a front view. The top view shows a central bearing with a hub/throw of 12. The side view shows the unit's profile with a total height of 105mm and a width of 24.5mm. The front view shows the unit's length with a total length of 155mm and a central bearing diameter of 12mm. The drawing also includes a table with dimensions and a version number.

Range / Length X	Version
18	Standard
10	Option UFV010

## 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 use in conjunction with option RUS007)  
Change guide projecting 10 mm (only for use in conjunction with option USW)  
Supplied in works locking mode

#### Accessories

Change activator, phosphate steel, 130 mm (only for use in conjunction with option USW)

**Order code**  
70095

**Option code**  
RUS007  
USW

UFV010  
AWS

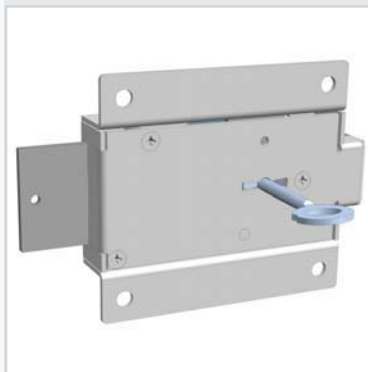
**Order number**  
3 110 200 000

#### 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

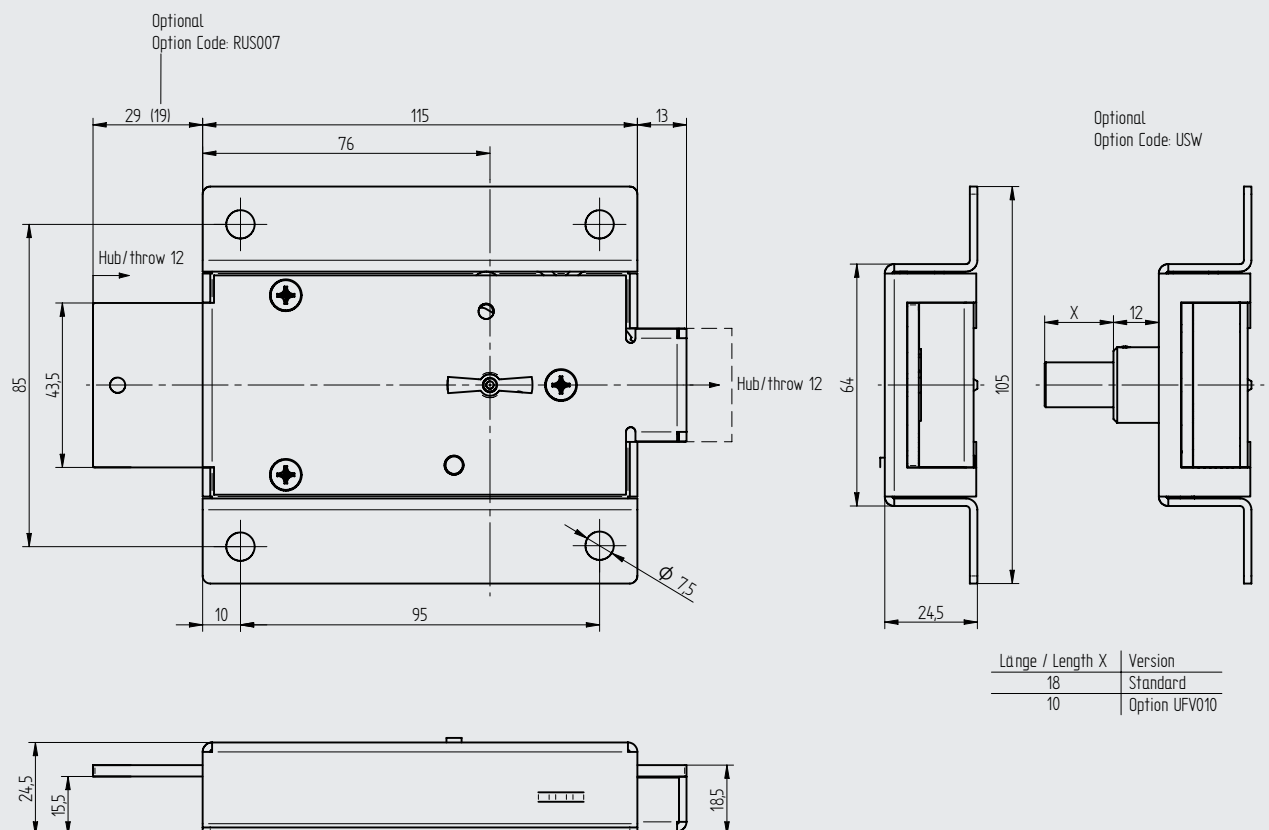
- DST075
- DST120
- DSTxxx

DGTxxx

DETxxx

23

**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



**Order code**  
70096

### 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

**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

## 25

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**

Technical drawing of a mechanical component, Scale 1:2. The drawing includes three views: front, side, and top.

**Front View Dimensions:**

- Overall width: 115
- Distance from left edge to center: 76
- Overall height: 105
- Distance from top edge to center: 85
- Distance from bottom edge to center: 43.5
- Distance from left edge to mounting hole: 12
- Distance from right edge to mounting hole: 12
- Distance from center to mounting hole: 10
- Overall length: 95
- Mounting hole diameter:  $\phi 7.5$

**Side View Dimensions:**

- Overall width: 24.5
- Overall height: 64

**Top View Dimensions:**

- Overall width: 47.6
- Distance from left edge to center: 12
- Distance from right edge to center: 20
- Distance from top edge to center: 10
- Distance from bottom edge to center: 8.5

**Table:**

Länge / Length X	Version
18	Standard
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.



26

### 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
<b>User double-bitted keys, nickel-plated</b>			
Brass	145, Ø 6/7	98	Oval
High-strength brass	145, Ø 6/7	98	Oval

**Option code**

DSM145  
DSS145



## 71044 Certus

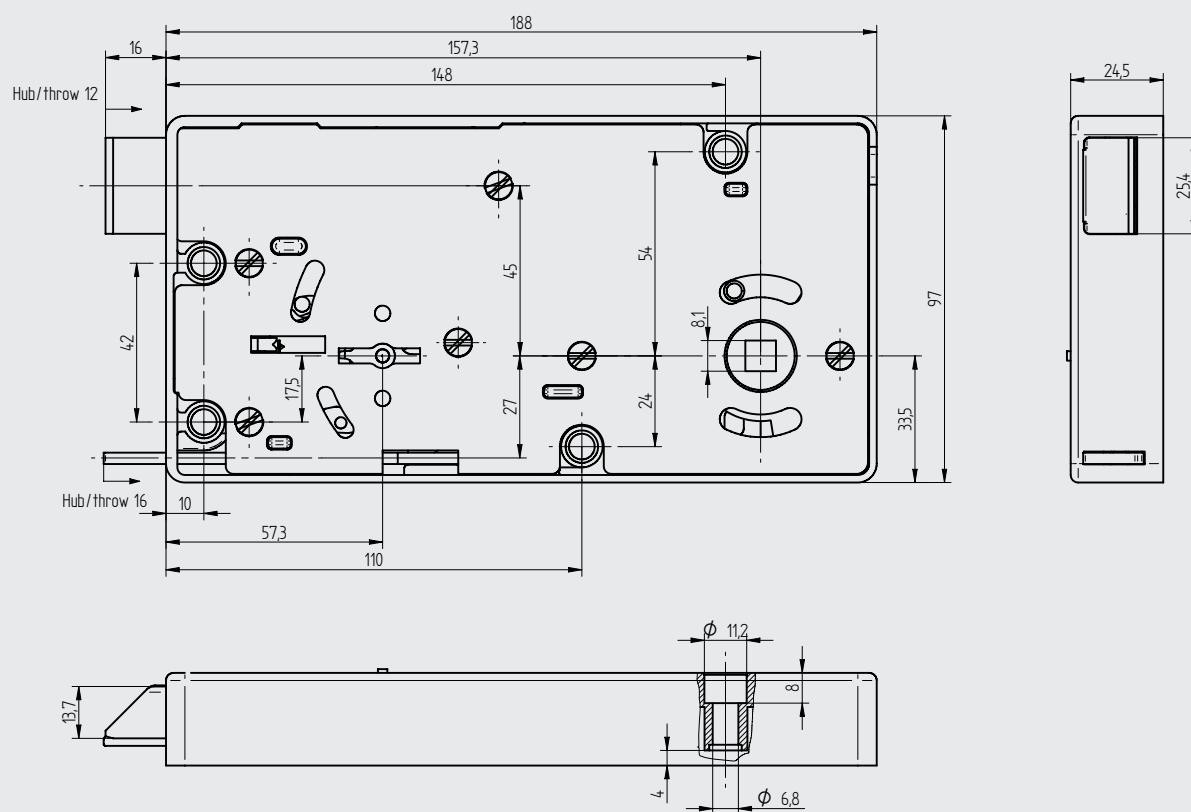


Lock and keys with oval bow

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.



28

### 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, VdS cl. 1, CNPP a2p(E) Niveau A, GOST cl. B, IMP cl. A, UL 437, ICECON cl. A

#### Order code

71111

#### Lock

**President - standard**

Approvals/certificates IMP cl. A, UL 437, additional options available

#### Order code

71113

### Options & Accessories

#### Options

Microswitch for bolt monitoring (2-way contact)  
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



71111	71113
✓	✓
✓	✓
✓	✓
✓	✓
	✓
	✓
✓	✓

#### Option code

RSK  
RGW2x4  
SDV  
SRO  
GSL  
SAB  
RPP  
SLG

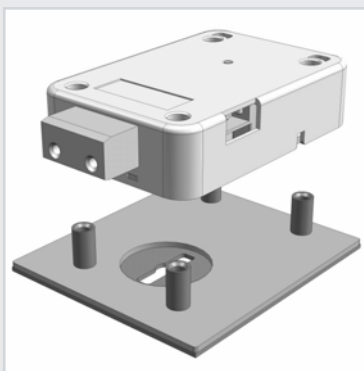
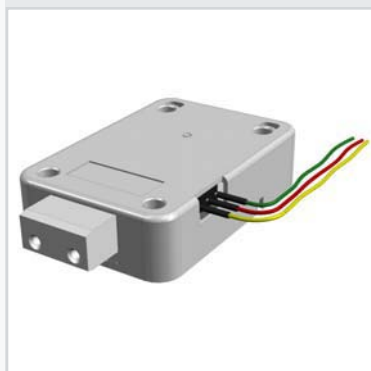
#### Accessories




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

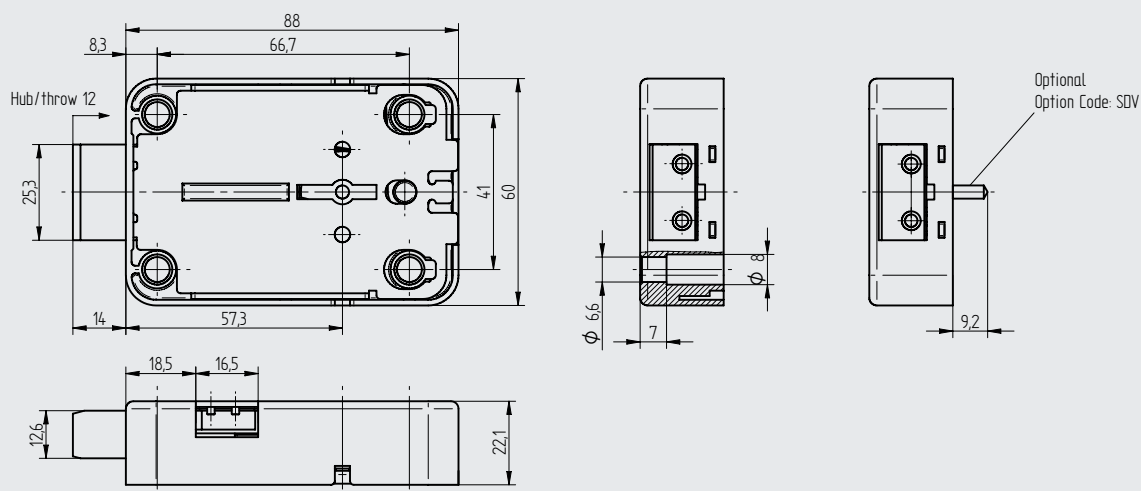
### Keys

Keys Material	Length, Ø stem [mm]	Usable length [mm]	Key bow
<b>User double-bitted keys, nickel-plated</b>			
Die-cast	65, Ø 6	20	Mauer
Die-cast	90, Ø 6/7	45	Mauer
Die-cast	90, Ø 6	45	Oval
Die-cast	105, Ø 6/7	60	Oval
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	120, Ø 6/7	75	Mauer
Brass	145, Ø 6/7	100	Oval
Brass	160, Ø 6/7	115	Oval
High-strength brass	120, Ø 6/7	75	Oval
High-strength brass	145, Ø 6/7	100	Oval
High-strength brass	150-360, Ø 6/7	105-315	Oval
<b>User double-bitted keys with foldable mechanism, nickel-plated</b>			
High-strength brass	120-360, Ø 6/7	75-315	Oval
<b>User double-bitted keys with detachable mechanism, nickel-plated</b>			
High-strength brass	120-360, Ø 6/7	75-315	Oval

### Option code

DSD065  
DSD090-M  
DSD090-O  
DSD105  
DSD120  
DSD150  
DSD164  
DSM070  
DSM090  
DSM120  
DSM145  
DSM160  
DSS120  
DSS145  
DSSxxx  
  
DGSxxx  
  
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.



30

### 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
<b>User double-bitted keys with lock and permutation number, nickel-plated</b>			
Brass	55, Ø 5.5	18	Oval
Brass	70, Ø 5.8	33	Oval
Steel	55, Ø 6	18	Oval

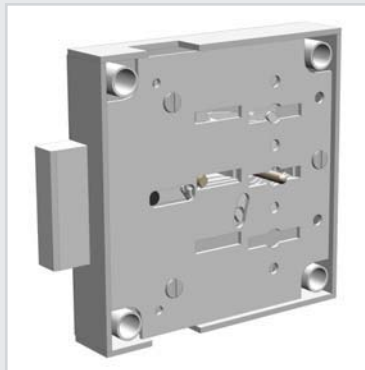
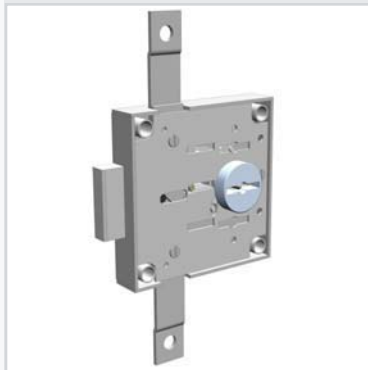
#### User double-bitted keys with lock and permutation number, nickel-plated




Brass	55, Ø 5.5	18	Oval
Brass	70, Ø 5.8	33	Oval
Steel	55, Ø 6	18	Oval

#### Option code

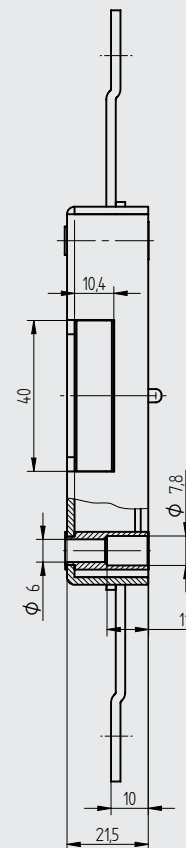
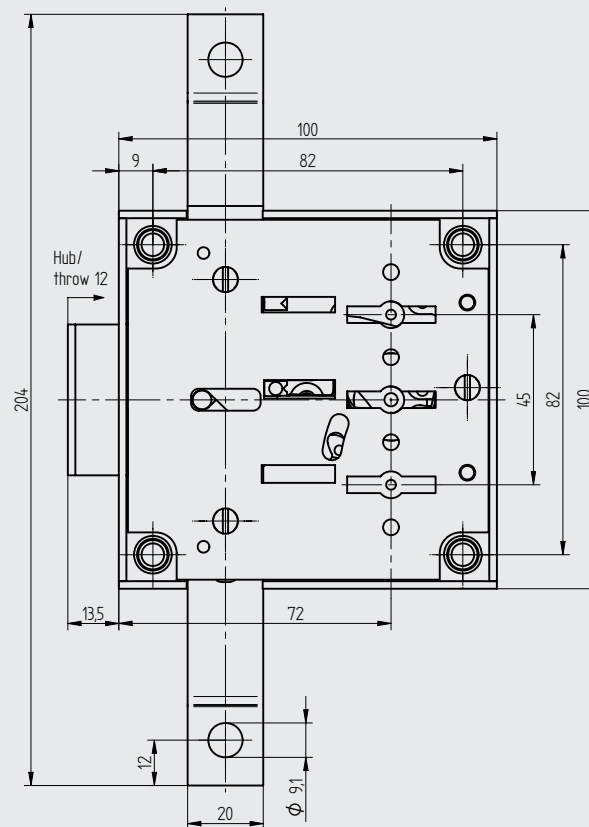
DSM055  
DSM070  
DST055

## 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.



32

### 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 use in conjunction with 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**  
3 118 000 600  
2 130 001 280

#### Keys (\* only for use in conjunction with option SDB)

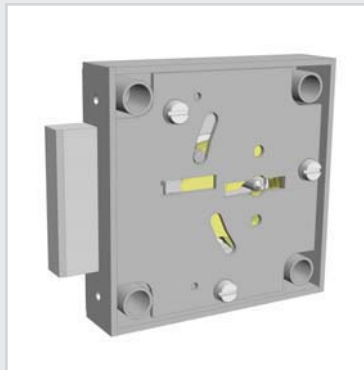
Material	Length, Ø stem [mm]	Usable length [mm]	Key bow
<b>User double-bitted keys with lock and permutation number, nickel-plated</b>			
Brass*	55, Ø 5.5	18	Oval
Steel*	55, Ø 6	18	Oval




**Option code**

DSM055\*  
DST055\*



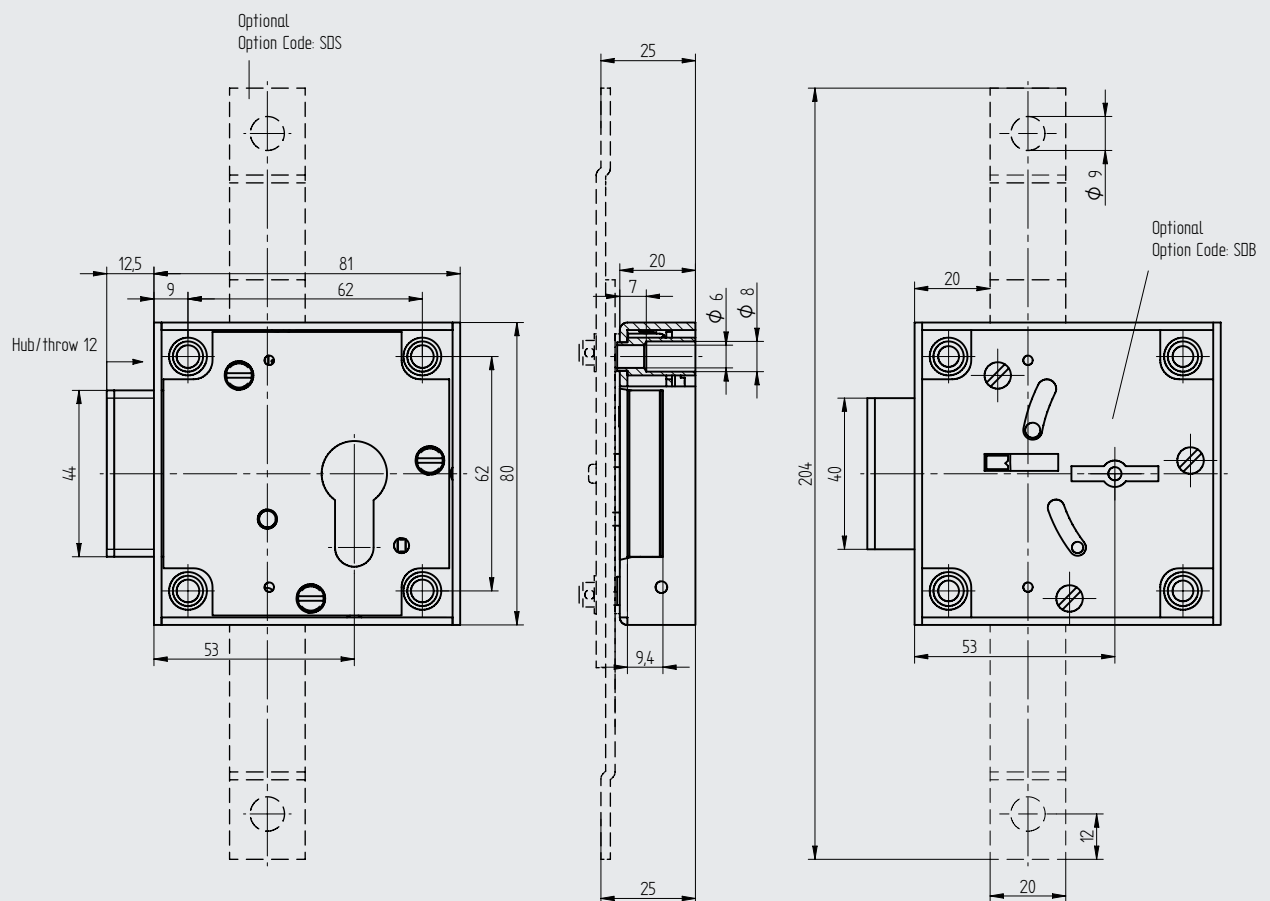
## 72081 Curator 80



-  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.



34

### 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**

#### Order code

73042

#### Approvals/Certificates

EN 1300 A, ECB-S, VdS cl. 1, GOST cl. A, ICECON cl. A

#### Lock

**Tricontus - standard**

#### Order code

73043

Without any approvals/certificates, additional options available

### 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**

✓

✓

✓

✓

#### 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
<b>User double-bitted keys with lock and permutation number, nickel-plated</b>			
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

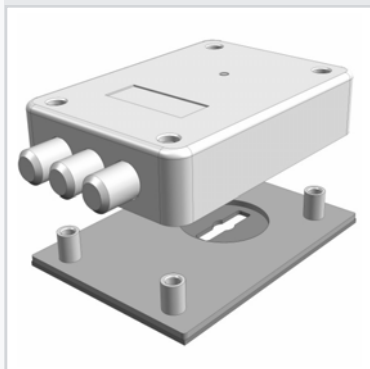
DSD090

DSD105

DSM070

## 73042 Tricontus A

## 73043 Tricontus

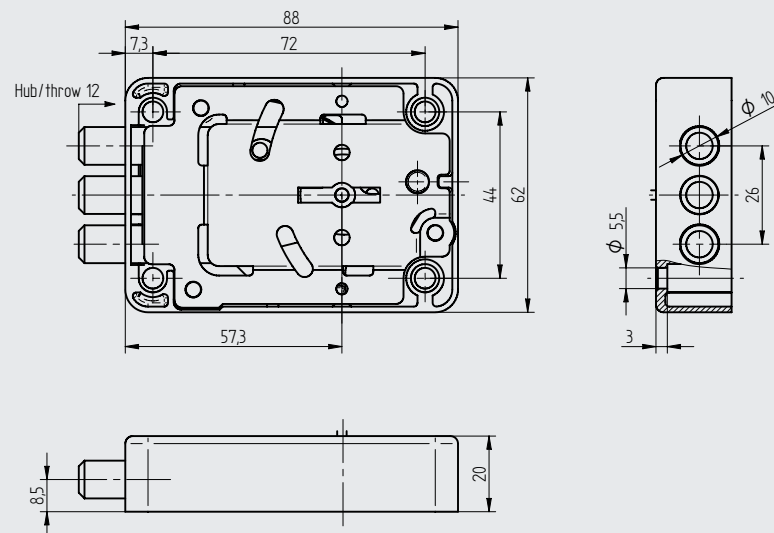


Lock and keys with Mauer bow

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  
Key marked with permutation number  
Supplied in works locking mode

#### Option code

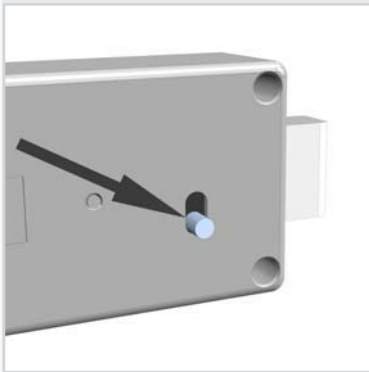
RGW2x5  
RPP  
AWS

#### 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



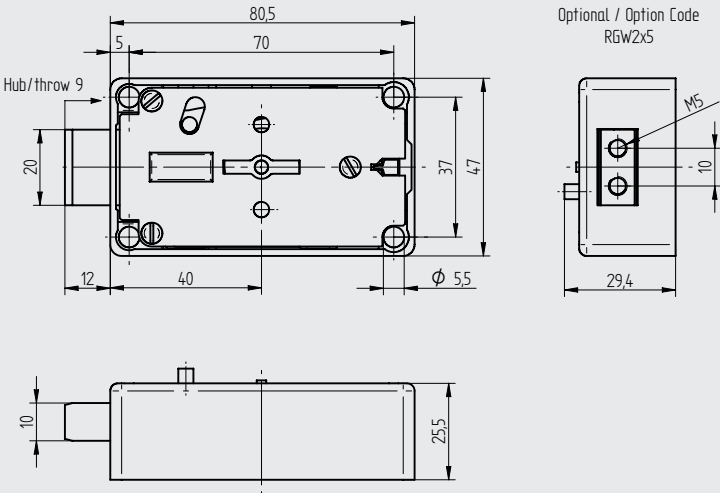
73071 Vary  
73073 Vary Flex

- 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

Scale 1:2



## 74041 Centurio A

## 74043 Centurio

Lock with flat bolt 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 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 cl. 1, GOST cl. A, IMP cl. A, ICECON cl. A

#### Lock

**Centurio - standard**

#### Order code

74043

Without any approvals/certificates, additional options available

### Options

#### Options

Loose mounting plate (lock cover) 2 mm thick, with 4 M5 threaded bushings, screws and securing rings  
Manganese steel plate 1.5 mm thick, spot welded under mounting plate (lock cover)  
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



#### 74041 74043

✓ ✓  
✓ ✓  
✓ ✓  
✓ ✓  
✓ ✓

#### Option code

MPL

BPL

GSL

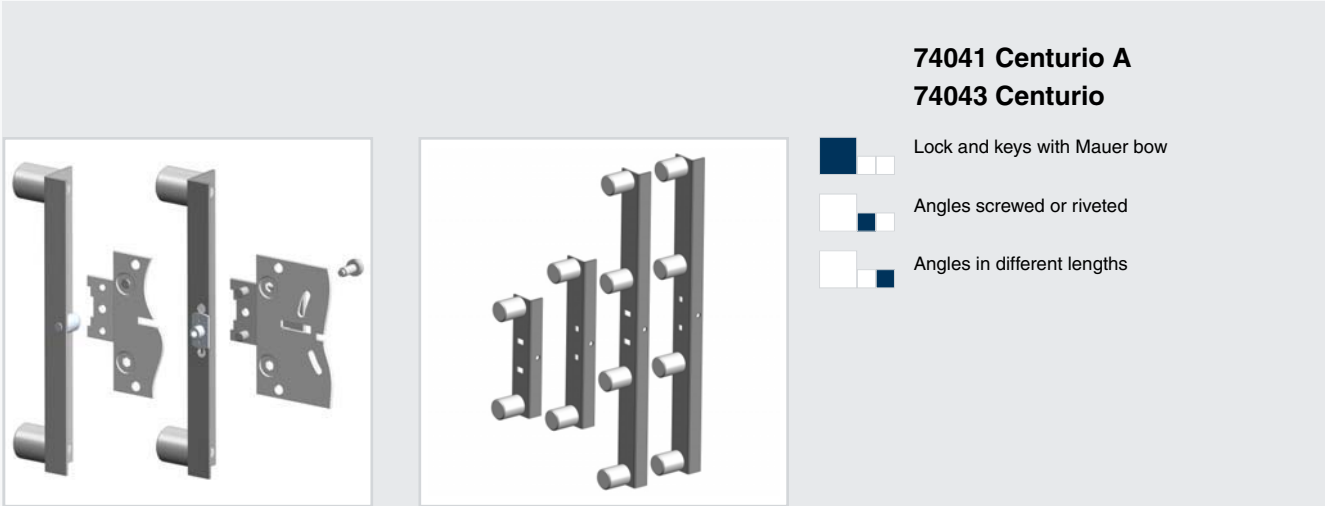
SAB

RPP

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



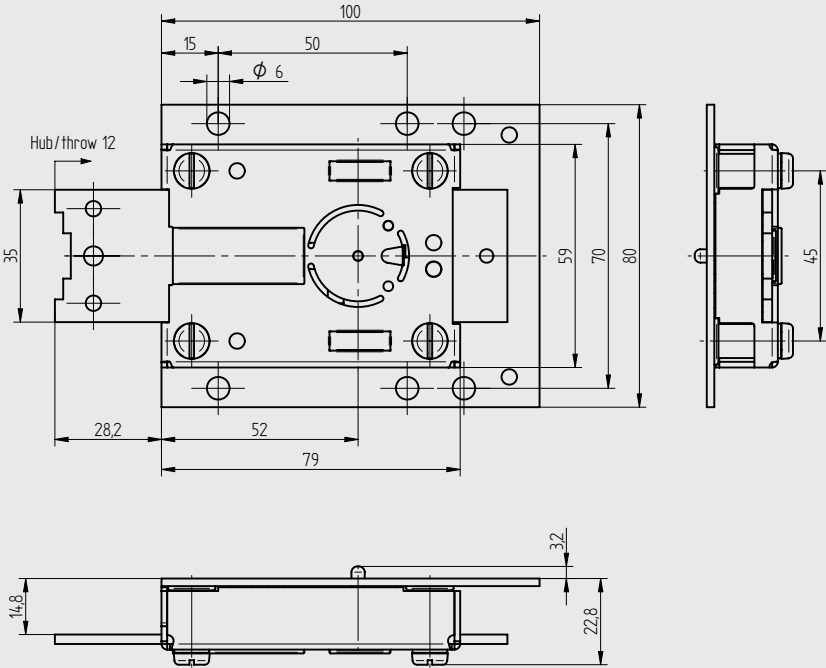
Keys

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

Option code

DSD065  
DSD090  
DSD120  
DSM070  
DSM090  
DSM120  
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 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. 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 cl. 1, GOST cl. A, IMP cl. A, ICECON cl. A

#### Lock

**Centurio Plus - standard**

#### Order code

74047

Without any approvals/certificates, additional options available

### Options

#### Options

Loose mounting plate (lock cover) 2 mm thick, with 4 M5 threaded bushings, screws and securing rings  
Manganese steel plate 1.5 mm thick, spot welded under mounting plate (lock cover)  
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



#### 74046

✓

✓

✓

#### 74047

✓

✓

✓

✓

✓

✓

#### Option code

MPL

BPL

GSL

SAB

RPP

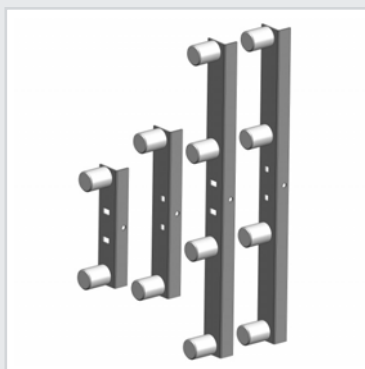
SLG




#### 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



## 74046 Centurio A Plus 74047 Centurio Plus



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

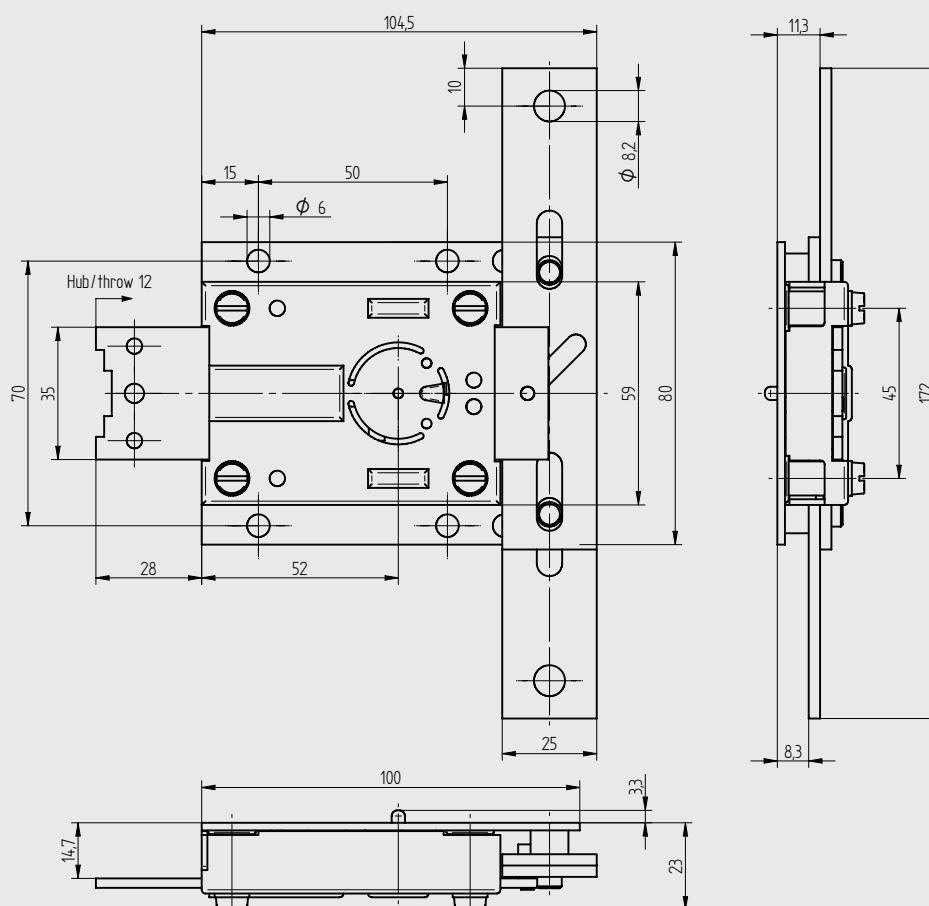
### Keys

Keys Material	Length, Ø stem [mm]	Usable length [mm]	Key bow
<b>User double-bitted keys, nickel-plated</b>			
Die-cast	65, Ø 5.9	39	Mauer
Die-cast	90, Ø 6/7	64	Mauer
Die-cast	120 Ø 6/7	94	Mauer
Brass	70, Ø 5.8	44	Oval
Brass	90, Ø 6	64	Oval
Brass	120, Ø 6/7	94	Mauer
High-strength brass	120, Ø 6/7	94	Oval

### Option code

DSD065  
DSD090  
DSD120  
DSM070  
DSM090  
DSM120  
DSS120

### Scale 1:2



## 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

EN 1300 A, ECB-S, VdS cl. 1 (for use in safe deposit units), GOST cl. A, ICECON cl. A

#### 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

#### 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

**Option code**  
SRO  
SZS

**Order number**  
3 118 000 180  
3 118 000 170

#### Keys

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

**Option code**

DSD055  
DSD090

## 78091 Arator

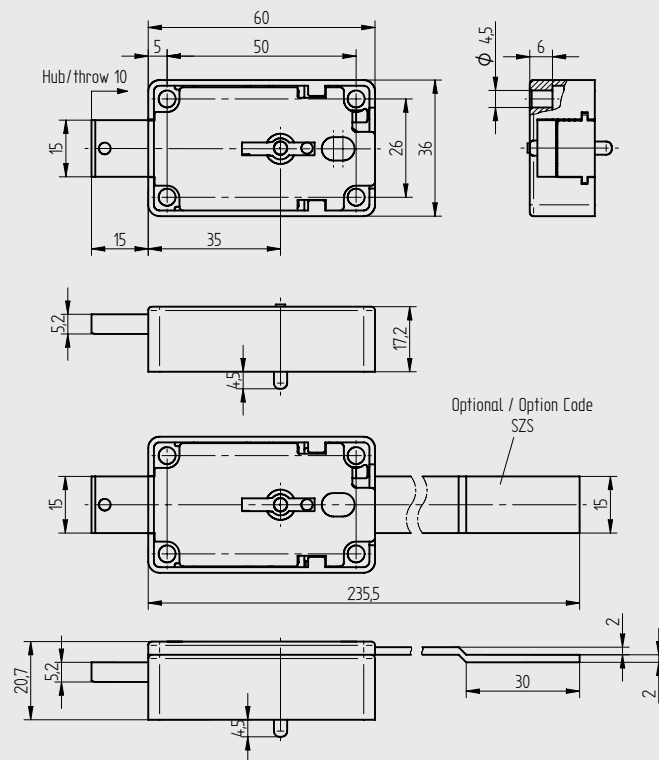


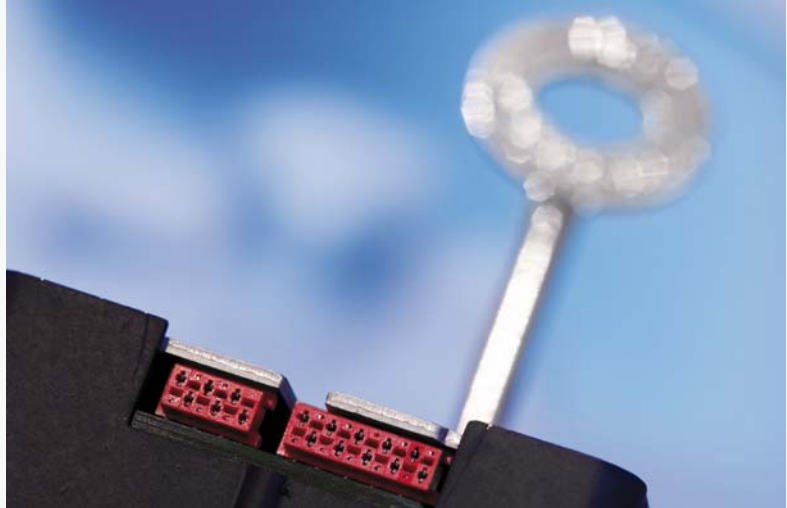
Lock and keys with Mauer bow

Lock with 2-way closure and keys

Scale 1:2

43





### **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 2, GOST B

11 levers, standard footprint, changeable, dead bolt

#### Order code

P

70171

46

70172

46

70211

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, Umin=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

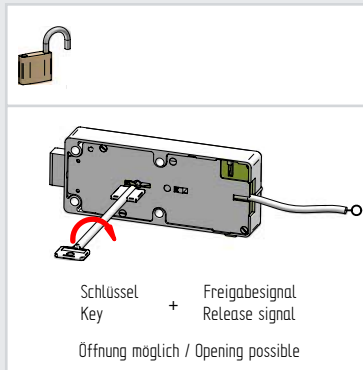
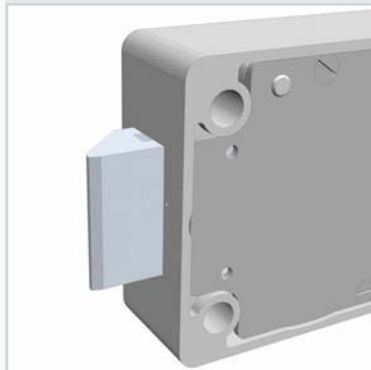
#### Options




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
<b>User double-bitted keys, nickel-plated</b>			
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

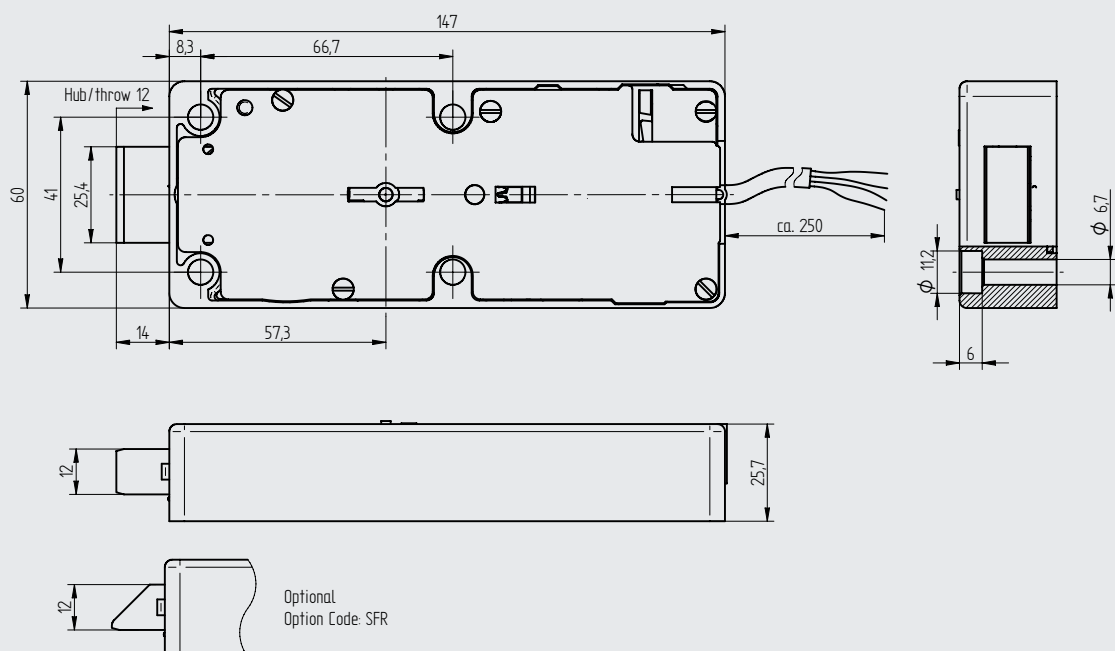
### Order number

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 cl. 2, GOST cl. 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
Input	Solenoid for release
Output	Microswitch for key monitoring
Output	Microswitch for bolt monitoring

**Specification**  
563 Ohm,  $U_{min}=5$  V DC  
  
Change-over contact,  
100 mA, 30 V DC  
Change-over contact,  
100 mA, 30 V DC

**Operating time (OT)**  
5-12 V: 100% OT,  
24 V: 87% OT

**Order code**  
70211

### Options & Accessories

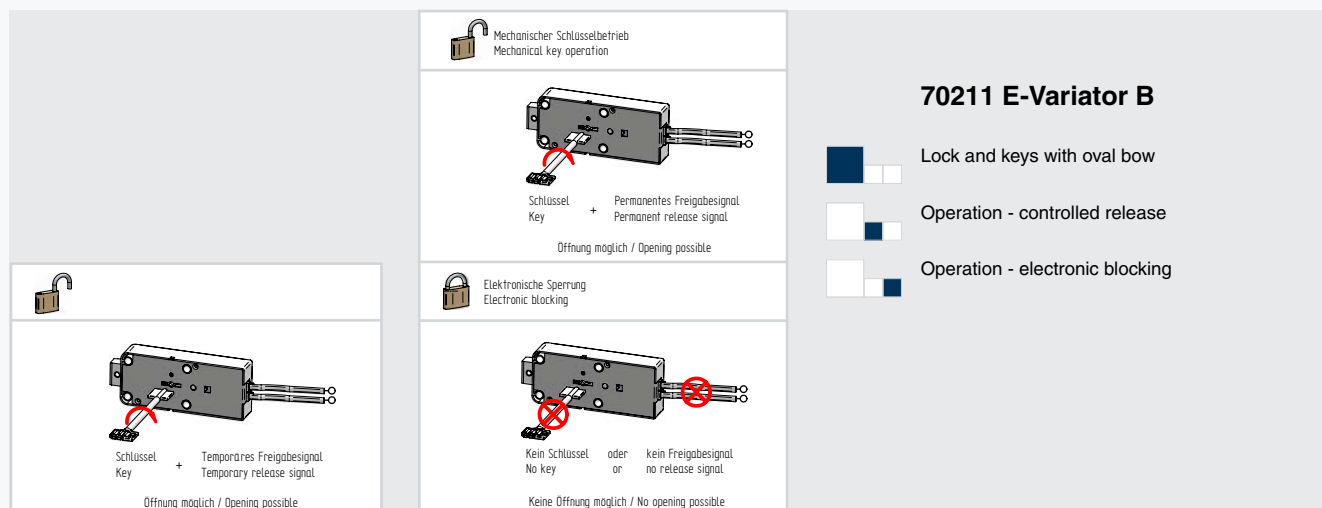
**Options**  
Lock case and bolt surface treated  
Supplied in works locking mode

**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



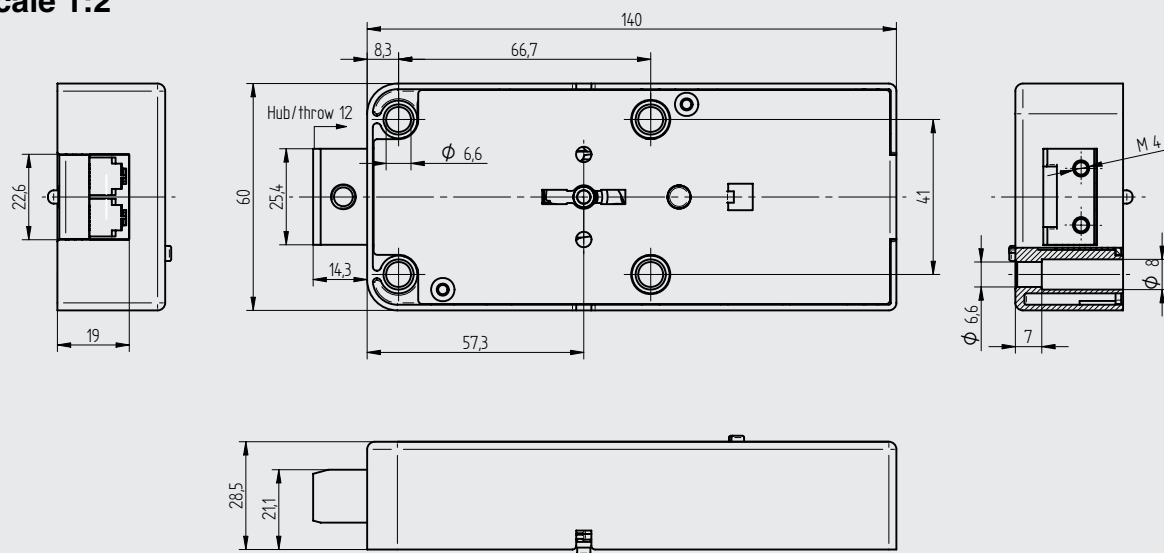


Works keys and change activators, nickel-plated				Order number Works keys	Order number Change activators
Material	Length [mm]	Usable length [mm]	Key bow		
High-strength brass	150	100	Oval	70075W0001	70075S0032
High-strength brass	80-360	30-310	Oval	70075Wxxxx	70075Sxxxx

## Keys

Keys Material	Length, Ø stem [mm]	Usable length [mm]	Key bow	Option code
<b>User double-bitted keys, nickel-plated</b>				
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
<b>User double-bitted keys with foldable mechanism, nickel-plated</b>				
High-strength brass	120-360, Ø 5.9/7	70-310	Oval	DGSxxx
<b>User double-bitted keys with detachable mechanism, nickel-plated</b>				
High-strength brass	120-360, Ø 5.9/7	70-310	Oval	DESxxx
<b>Detachable bit part, nickel-plated (only for use in conjunction with 86124 Servant K)</b>				
High-strength brass	63, Ø 5.6/5.8/7	-	-	DUS063

## Scale 1:2





### **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

85074

56

51

## 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 (battery not included in delivery)

**Fitting**  
Aluminium EV1 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

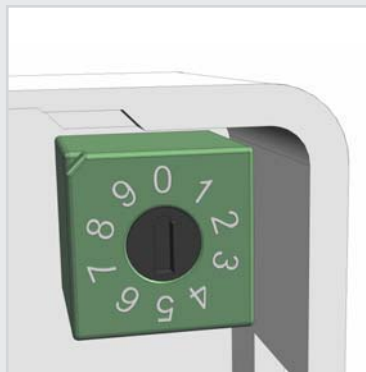
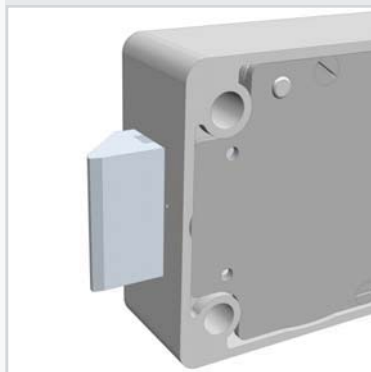
**Options**  
Lock with latch bolt  
Supplied in works locking mode




**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			
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

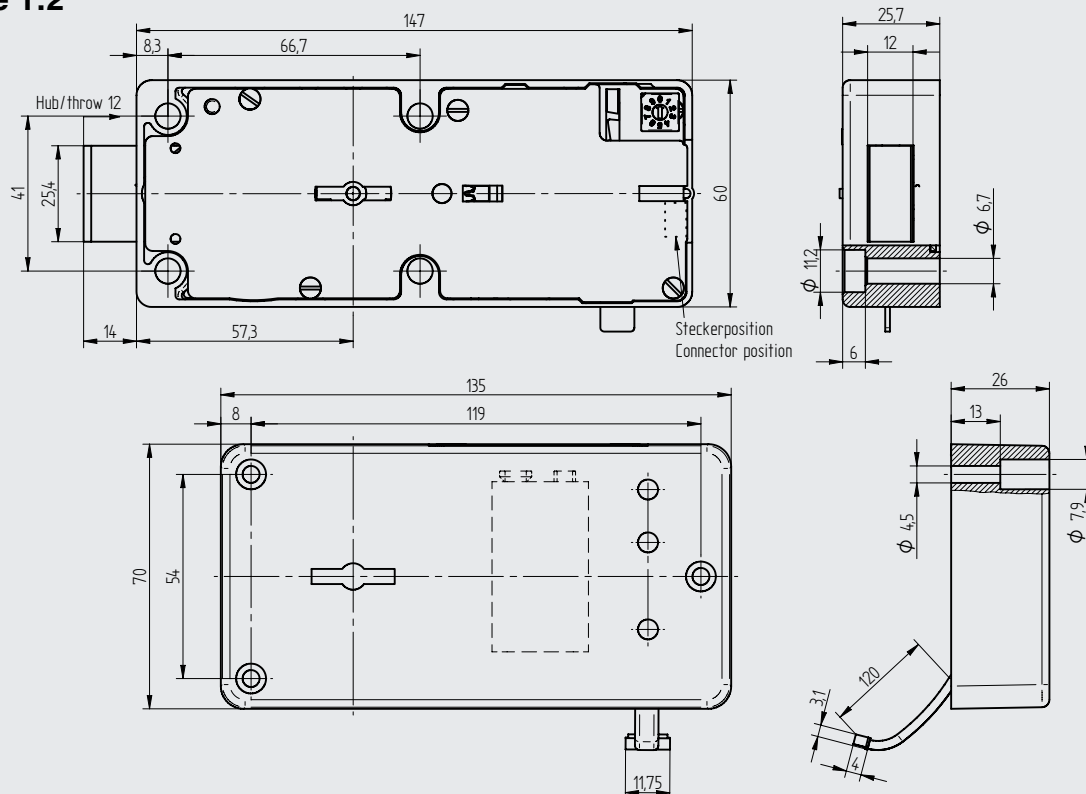
### Order number

70160S0015  
70160S0013

### Option code

DSM090  
DSM135  
DSM150

### 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 EV1 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



#### Order code

82161

### 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

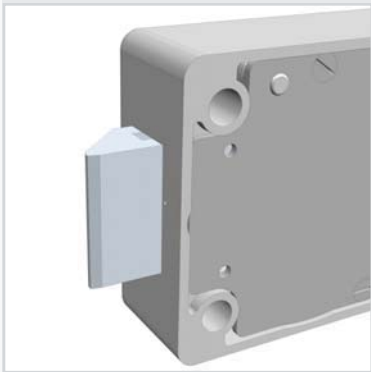
#### Option code




SFR  
AWS  
SBS

#### Order number

3 118 000 120  
0 516 000 000

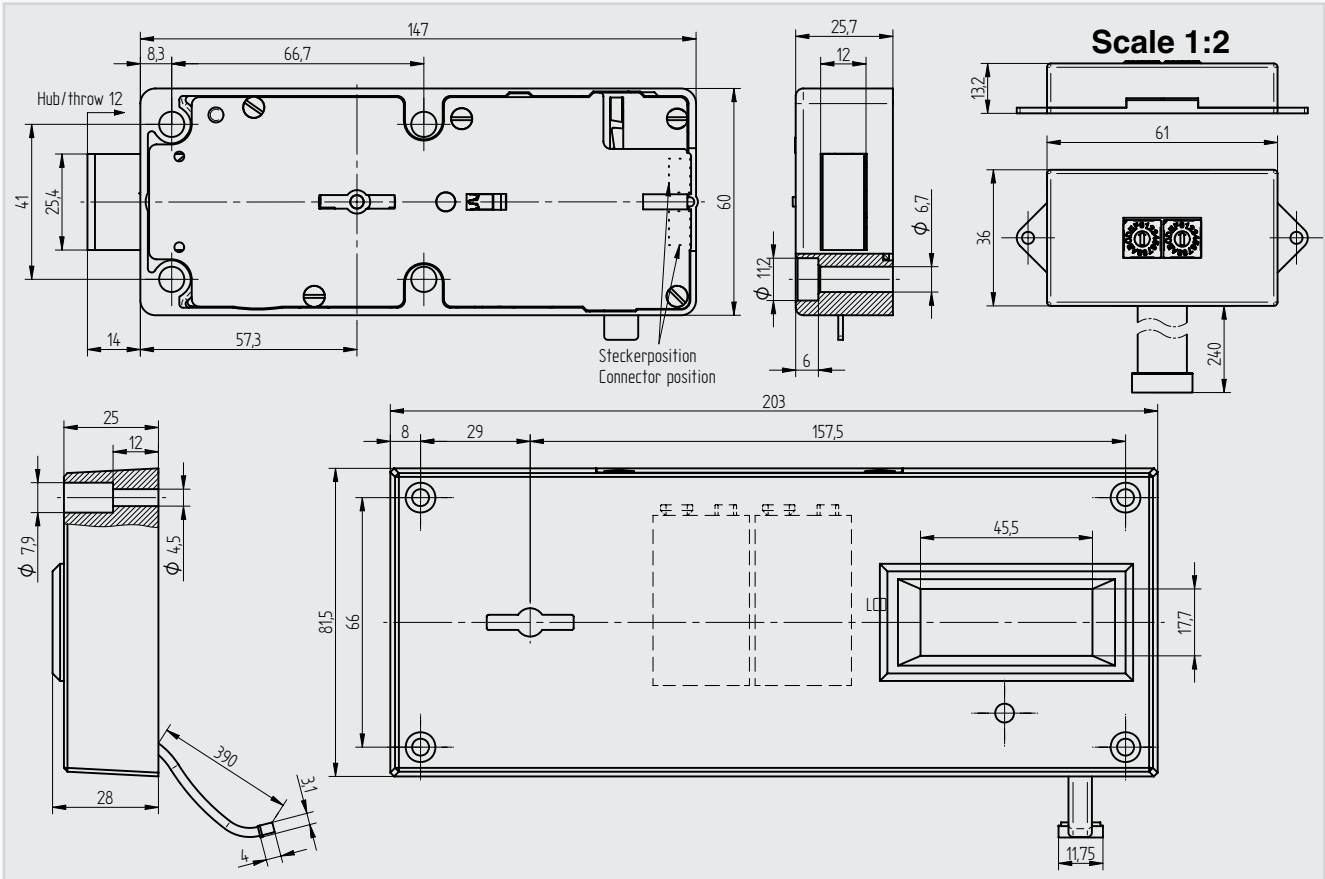
82161 Varios TD-LCD



-  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  $\pm$  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,  $\varnothing$  29 mm

Key guide projecting 20 mm, brass, nickel-plated,  $\varnothing$  29 mm

Key guide projecting 30 mm, brass, nickel-plated,  $\varnothing$  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, $\varnothing$ stem [mm]	Usable length [mm]	Key bow
<b>User double-bitted keys, nickel-plated</b>			
Steel	75, $\varnothing$ 5.5	36	Oval

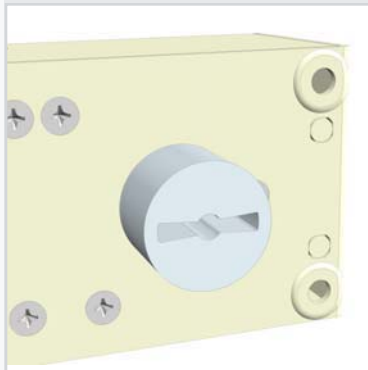
Keys in other lengths on request




#### Option code

DST075



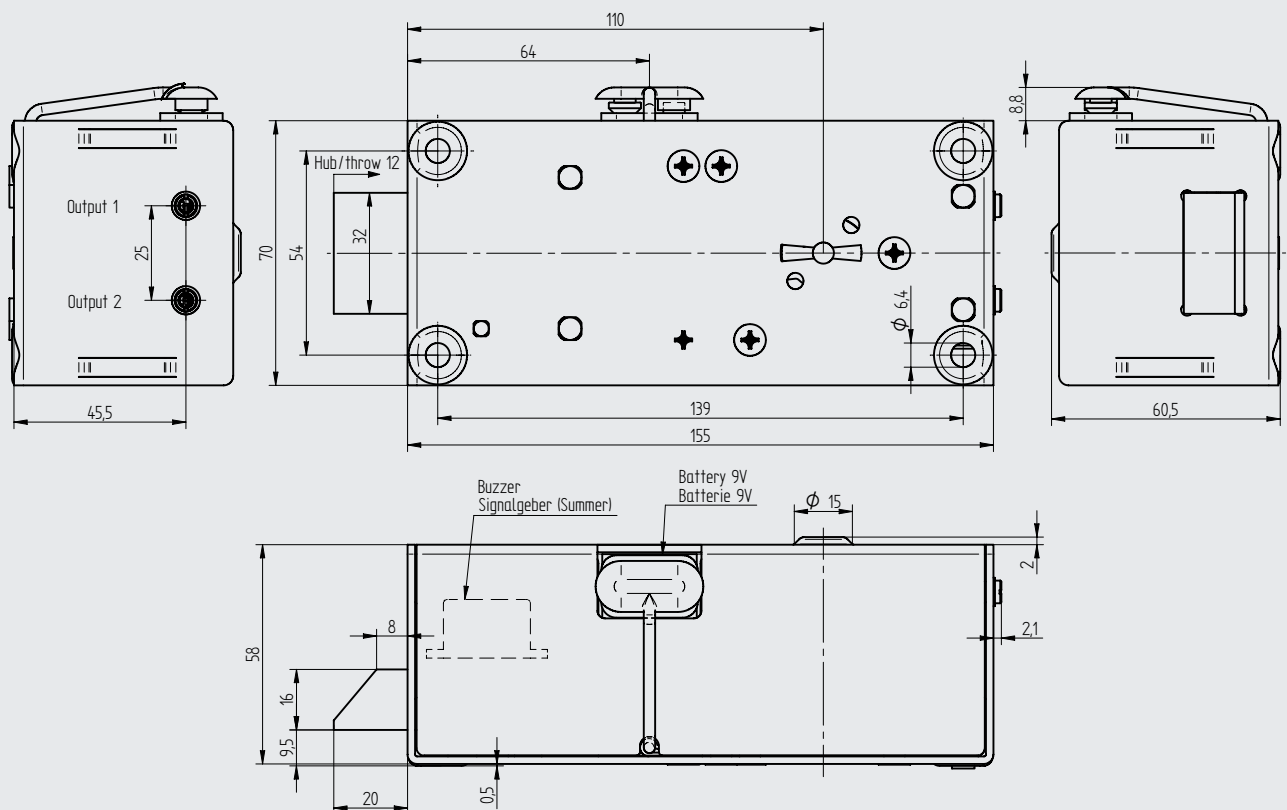
## 85074 Novum TD



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

Scale 1:2





57





### **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		Order code	P
	<b>Ilco A 673</b> EN 1300 A, VdS 1, UL 2 - 3 wheel combination lock Standard footprint, changeable, dead bolt, die-cast bolt and drop lever	80041	60
	<b>Ilco 673</b> EN 1300 A, VdS 1, UL 2 - 3 wheel combination lock Standard footprint, changeable, dead bolt, bolt and drop lever brass	80042	61
	<b>Ilco 685</b> EN 1300 B, VdS 2, UL 2M - 3 wheel combination lock Standard footprint, changeable, dead bolt, bolt and drop lever brass	80044	62
	<b>Ilco 684</b> EN 1300 B, VdS 2, UL 2M - 4 wheel combination lock Standard footprint, changeable, dead bolt, bolt and drop lever brass	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 cl. 1, UL Group 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



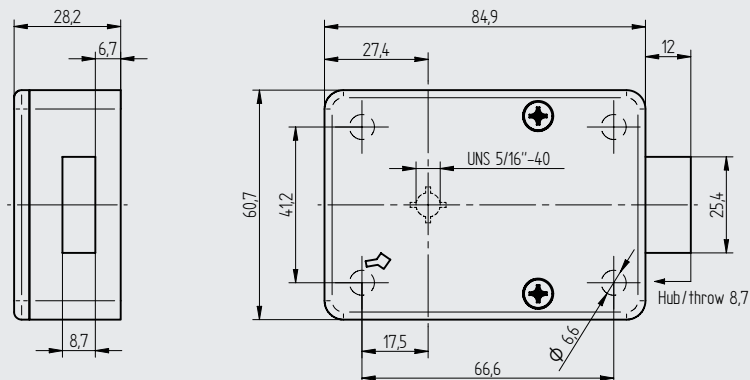
**Order code**  
80041

### 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 cl. 1, UL Group 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



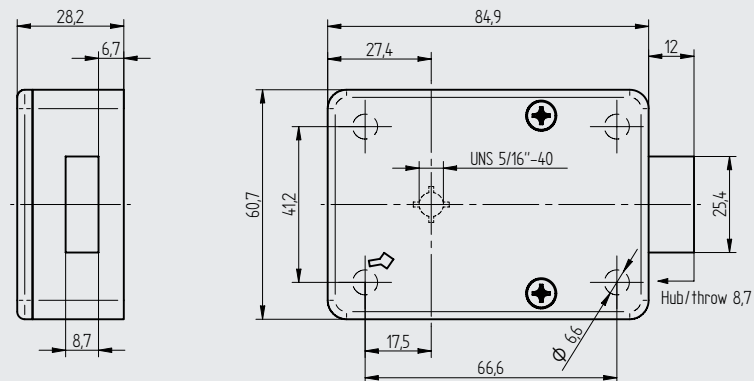
### Options

**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 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.

## 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 cl. 2, UL Group 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



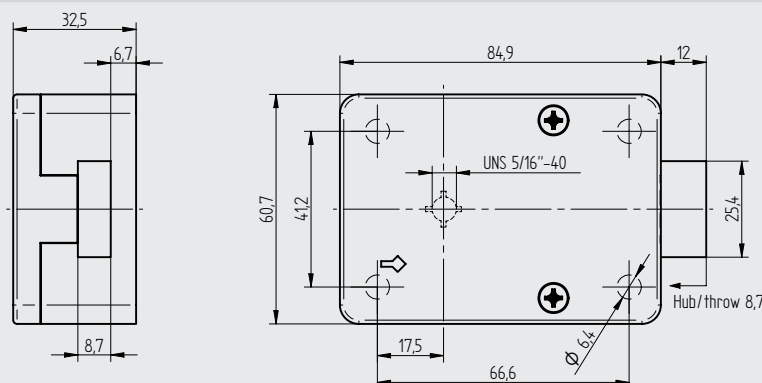
**Order code**  
80044

### 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.



## 80051 Ilco 684

Changeable 4 wheel combination lock with dead bolt for safes CEN 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 cl. 2, UL Group 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



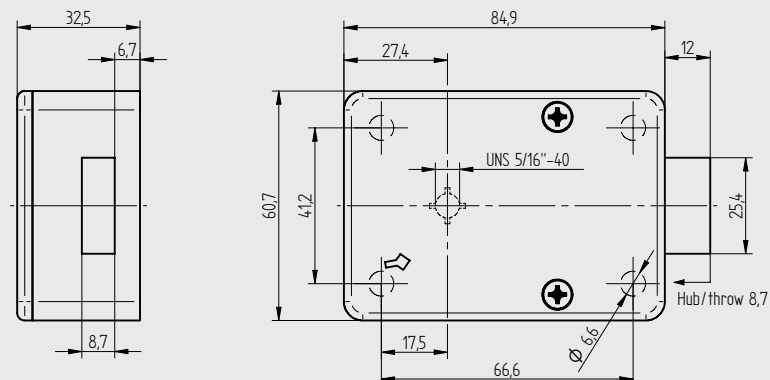
### Options

**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.



		Order code	P
          	<b>Overview</b>		
	<b>Paxos® compact</b> EN 1300 B/C/D, ECB-S, VdS 2/3/4, BSI 7500, UL 1 Motor bolt, 26 users, full redundancy, time delay, audit 870 events	82751	66
	<b>Questor</b> EN 1300 B*, ECB-S*, VdS 2*, CNPP a2p(E) Niv. B, UL 1* (* approvals pending) Motor bolt, 3 operation modes, 18 users, unlimited OTCs, audit 4,800 events	82705	70
	<b>SL 525/SL 523</b> EN 1300 B, ECB-S, VdS 2, CNPP a2p(E) Niv. B, UL 1* (* approval pending) Motor bolt, 18 users, time lock functions, audit > 1,200 events	82701	72
	<b>Cencon System 2000®</b> EN 1300 B, ECB-S, VdS 2, DNV, UL 1, cULus 3 modes, 30 users, unlimited OTCs, SmartKeys, audit 956 events, no batteries	82511	74
	<b>Auditcon® 552</b> EN 1300 B, VdS 2, DNV, UL 1 94 (99) users, time lock functions, audit 400 events, no batteries	82522	76
	<b>Auditcon® 252</b> EN 1300 B, VdS 2, DNV, UL 1 17 (20) users, time lock functions, audit 100 events, no batteries	82542	76
	<b>Code-Combi B</b> EN 1300 B, ECB-S, VdS 2, GOST B, IMP B, ICECON B 2 users, time delay, mechanical redundancy	82132	78
	<b>52 Series</b> EN 1300 B, VdS 2, DNV, UL 1 2 users, no batteries, time delay (opt.)	82563	81
	<b>Code-Combi K</b> EN 1300 A, ECB-S, VdS 1, IMP A, ICECON A 2 users, time delay (opt.)	82021	82
	<b>Code-Combi KL</b> 1 user/1 master, coin or activation-key function (opt.)	82011	82
	<b>LC Series</b> EN 1300 A, ECB-S, VdS 1, DNV, UL 1 2 users, slide bolt, time delay (opt.)	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 cl. 2/3/4, VdS Blocking Element for IDS cl. C, VdS Switching Unit ("Blockschloss") for IDS cl. C, BSI 7500, SSV safes of directory I + II, SSV strongroom doors type II, UL Type 1

**Order code****82751**

Code	Function	Opening
<b>1 Master</b>	Programming	No
<b>1 Sub-Master "Code Management" (Mutation)</b>	Programming of codes	No
<b>1 Sub-Master "Time Management" (Time )</b>	Programming of time functions	No
<b>26 Users</b>	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)

**Audit**

Record of 870 events

**Time lock functions**

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

**Power supply**

6 x 1.5 volt Alkaline batteries LR6/AA

**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)

**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)



## 82751 Paxos® compact



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

## Options &amp; Accessories

## Options input unit

**Key pad version**

Precondition for: VdS cl. 2, ECB-S cl. 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 cl. 3/4, ECB-S cl. C/D, EN 1300 C/D

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

## Options lock

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

**Type D**, precondition for: VdS cl. 4, ECB-S cl. 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

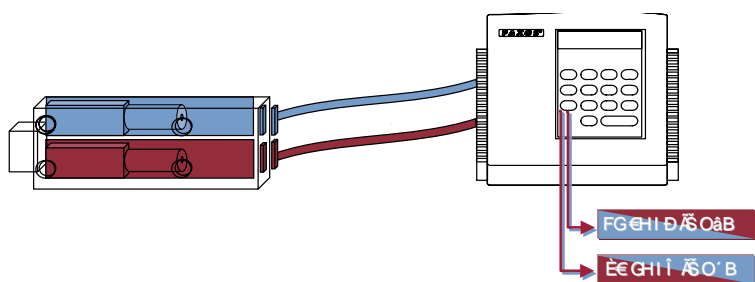
82751Z0005

82751Z0032

82751Z0022

## 82751 Paxos® compact

■ Redundant technology



68

### Blocking element VdS

For combined use as a numeric combination code 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)

### Order code

#### 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.

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

### Order code

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

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

82751Z0108

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

82751Z0109

**Door-position and door-bolt interface**, 0.5 m

82751Z0105

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

82751Z0510

**Transponder badge standard**, Paxos design, 10 pieces

82751ZM981

**Transponder badge white**, blank, 10 pieces

82751ZM980

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

82751Z0024

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

82751Z0119

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

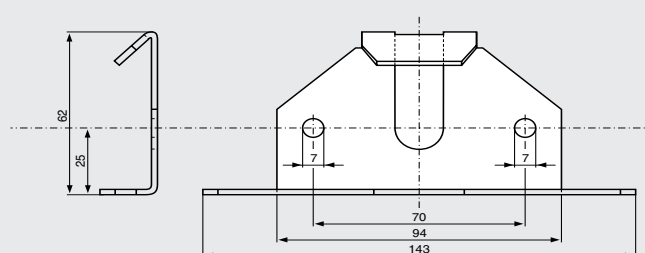
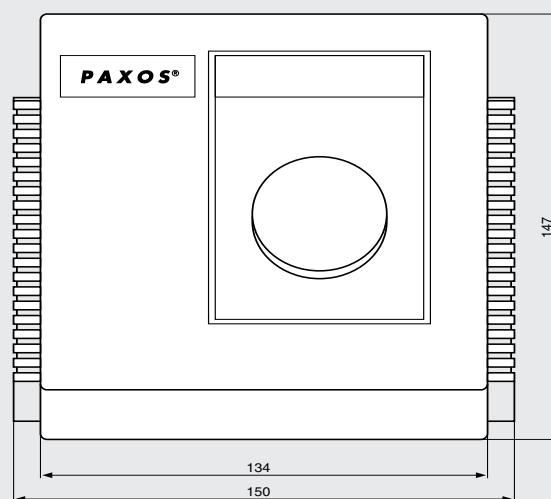
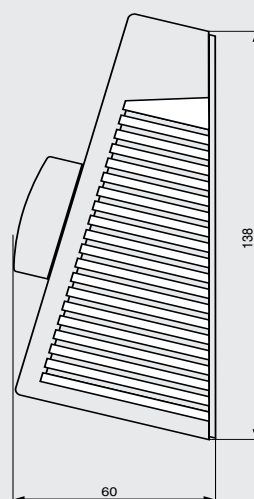
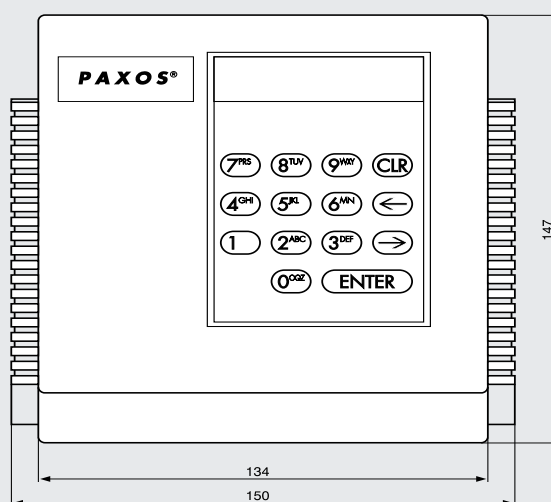
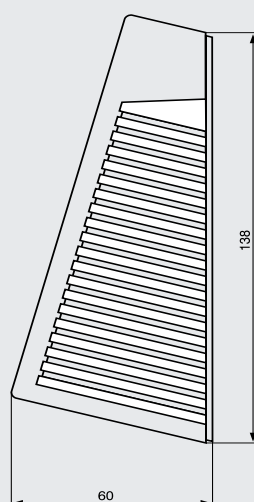
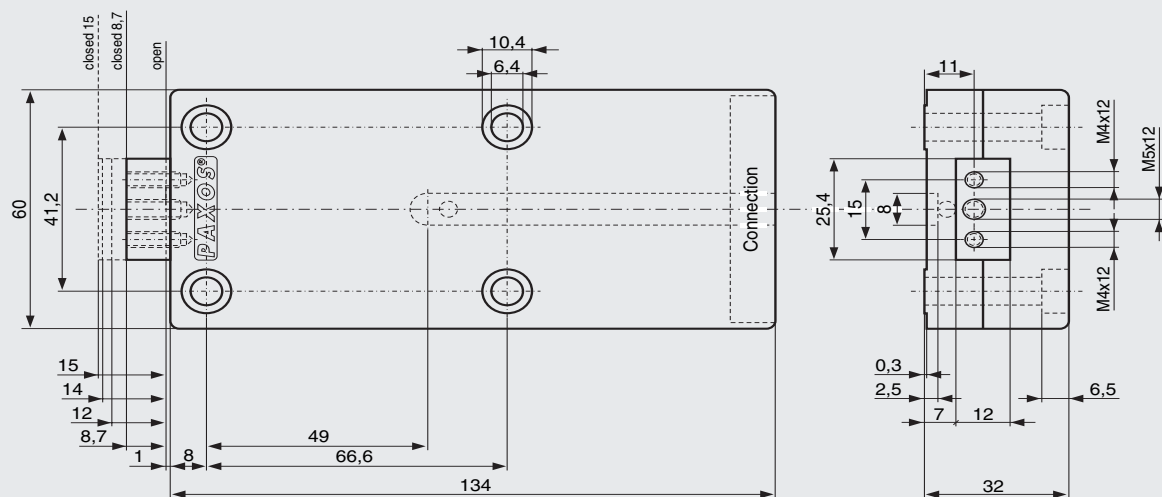
82751Z0025

**Paper roll (DP 24)**

82751Z0026

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

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 cl. 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
<b>Unlimited OTCs</b>	OTC	One time operation (opening)	Yes**
<b>1 Master</b>	OTC / OTQ / standard	Programming, managing, shelve	Yes***
<b>2 Managers</b>	Standard	Programming	No
<b>18 Users</b>	Standard	Operation	Yes
<b>1 Courier</b>	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.

**72****General Features****Approvals/Certificates (\* pending)**

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

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

<b>Code functions</b> 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)	<b>Supplementary functions</b> Low voltage detection Battery status display Non-erasable opening counter Error diagnosis, recognition and display Remote/alarm disabling Operator selectable display language: D   E   F   GB     HU   I   NL   PL    
--	--

<b>Time lock functions</b> 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	<b>Audit</b> 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	BEST.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.

**74****Basic Features****Lock****Cencon System 2000® - standard****Approvals/Certificates**

EN 1300 B, ECB-S, VdS cl. 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

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

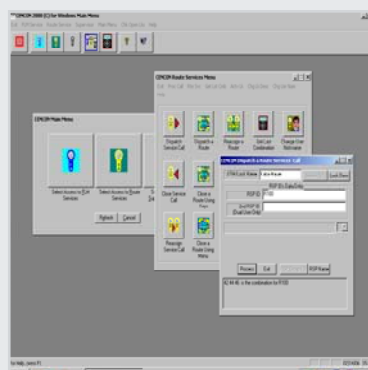
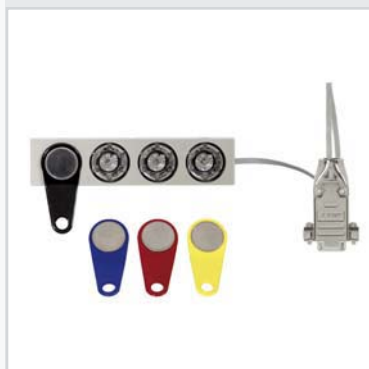
*NB: A user needs both a code (OTC or programmed code) and a SmartKey to access the lock.*




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

**Order code****82511**

## 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.

**76****General Features****Approvals/Certificates**

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

Codes	Auditcon® 552	Auditcon® 252	Functions	Opening
<b>Super Master</b>	1	1	Shelve	No
<b>Master</b>	1	1	Programming, managing, shelve	No
<b>Manager (Supervisor)</b>	5	3	Programming, managing	No
<b>User</b>	94 (99)*	17 (20)*	Operation	Yes
<b>Courier **</b>	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
<b>Events</b>	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**

✓

✓

✓

**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

✓

✓

✓

✓

✓

✓

✓

✓

**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

✓

✓

**Order number**

82510Z0033

**Auditcon software update**

✓

✓

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.



78

### Basic Features

#### Lock

**Code-Combi B - standard**

#### Approvals/Certificates

EN 1300, ECB-S, VdS cl. 2, GOST cl. B, IMP cl. B, ICECON cl. 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

✓

\* 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".

#### Option code

##### BAS\*

TR

TL

TO

TU

W

S

##### BAK\*

##### BAH\*

TRL

TRL

TOU

VKV116

VKV124



VKV136

VKV144



## 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

### Plastic input unit\*

#### Mounting position input unit/lock

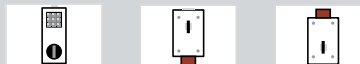
Input unit horizontal (key pad right)  
Lock horizontal (bolt left)



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)



\* 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
135	88.5	94
175	128.5	134
190	143.5	149
235	188.5	194

#### Accessories

Cheese-head screw galvanised, DIN 84 - BSW 1/4" x 29 mm - 4.8, with securing ring  
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

#### Keys

Material	Length, Ø stem [mm]	Key bow	Max. usable length [mm] for aluminium input unit	Max. usable length [mm] for plastic input unit
Die-cast	120, Ø 6/7	Mauer	59	66
Die-cast	150, Ø 6/7	Mauer	89	96
Die-cast	164, Ø 6/7	Mauer	103	110
High-strength brass	150, Ø 6/7	Oval	89	96
High-strength brass	160, Ø 6/7	Oval	99	106
High-strength brass	190, Ø 6/7	Oval	129	136

IBF

BKS\*

TRL

TLR

TOS

TUS

#### Option code

BEW135  
BEW175  
BEW190  
BEW235

#### Order number

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

#### Option code

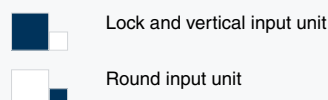
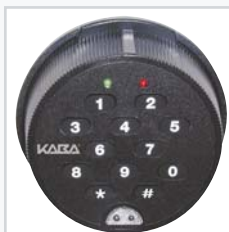
DSD120  
DSD150  
DSD164  
DSS150  
DSS160  
DSS190





## 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.



### Basic Features

**Lock**  
52 Series - standard

**Approvals/Certificates**  
EN 1300 B, VdS cl. 2, DNV, UL Type 1

**Order code**  
82563

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

#### 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

#### 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



### 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)

**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 cl. 1, GOST cl. A, IMP cl. A, ICECON cl. A

#### Specifications

2 user codes  
Single mode (1 x 6 digits)

#### Order code

82021

#### Lock

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

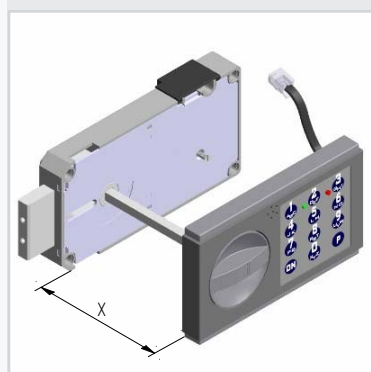
#### Specifications

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




*Please specify option code "adhesive label".*

#### Order code























82011



### 82021 Code-Combi K 82011 Code-Combi KL

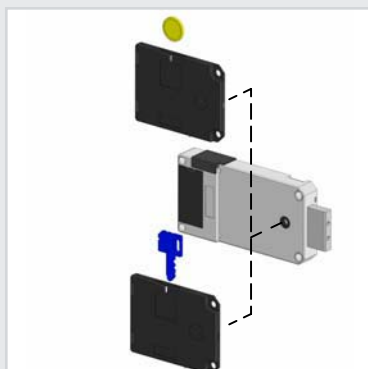
-  Lock and input unit
-  Mounting situation: max. usable length (x)
-  Battery clip for emergency power supply

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

84

## 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

- ✓
- ✓
- ✓
- ✓
- ✓

### 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 cl. 1, DNV, UL Type 1

Code	Function	Opening
<b>1 Super master</b>	Shelve	No
<b>2 Users</b>	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 renter levers, 2 keyholes, dead bolt



### Deposit 10

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



### E-lo-safe M

5 bank/8 renter 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

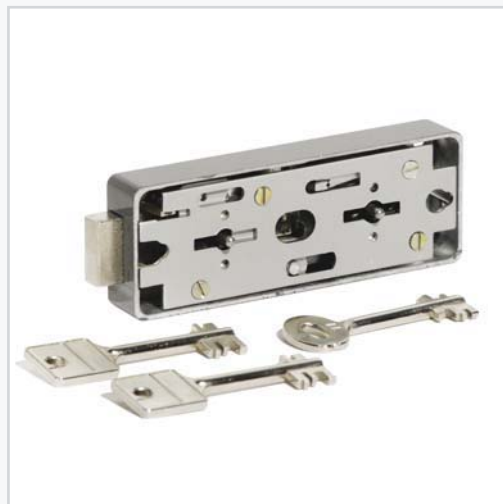
96

## 78011

### Deposit 20

Safe deposit lock with dead bolt.

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



88

### 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
<b>Bank double-bitted keys with permutation number, nickel-plated</b>			
Steel	60, Ø 5	21	Oval

**Order number**

78011B0001

#### Keys

Material	Length, Ø stem [mm]	Usable length [mm]	Key bow
<b>Renter double-bitted keys, nickel-plated</b>			
Die-cast	62.5, Ø 5.1	24	Square

**Option code**

DSD063



## 78011 Deposit 20



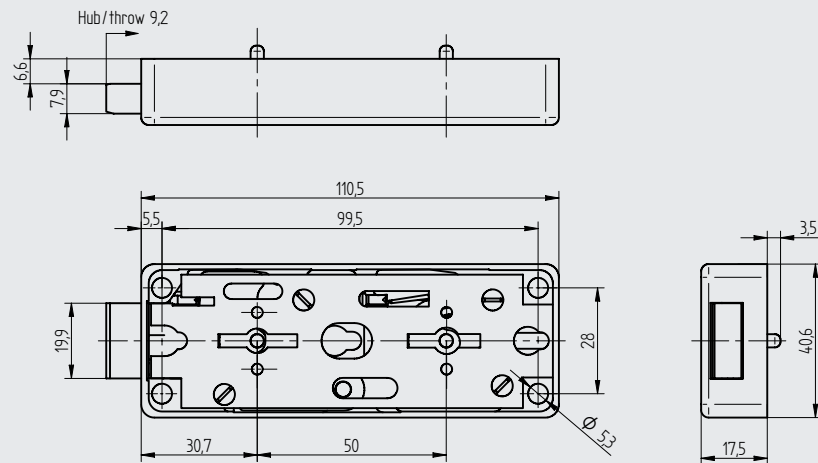
Lock and bank/renter keys

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.



90

### 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
<b>Bank double-bitted keys with permutation number, nickel-plated</b>			
Steel	60, Ø 5	12	Oval
Steel	120, Ø 5	72	Oval

#### Bank double-bitted keys with permutation number, nickel-plated

Steel	60, Ø 5	12	Oval
Steel	120, Ø 5	72	Oval

#### Order number

78051B0001

78051B0002

#### Keys

Material	Length, Ø stem [mm]	Usable length [mm]	Key bow
<b>Renter double-bitted keys, nickel-plated</b>			
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

#### 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

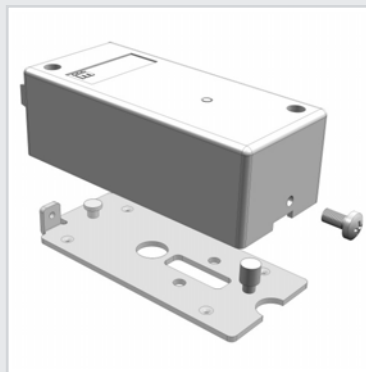
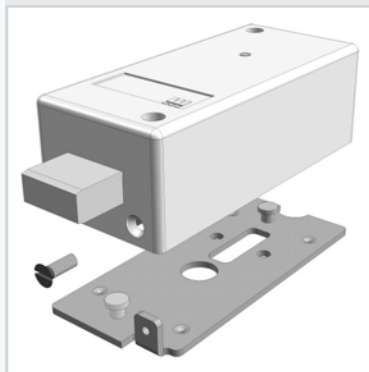
#### Option code




DSD063

DSD126

DSM060

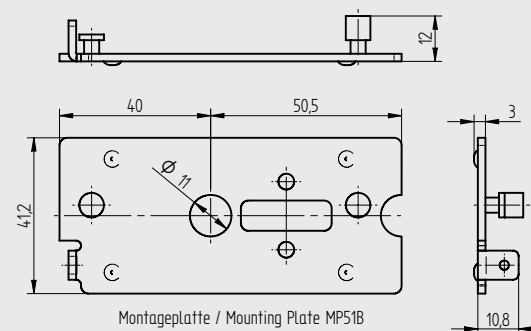
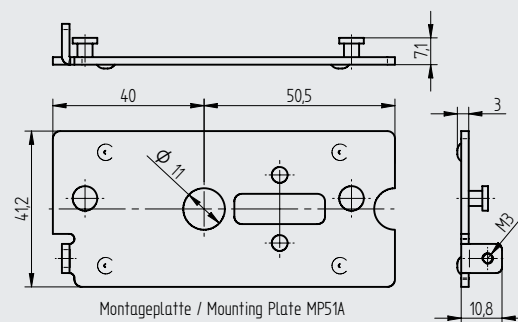
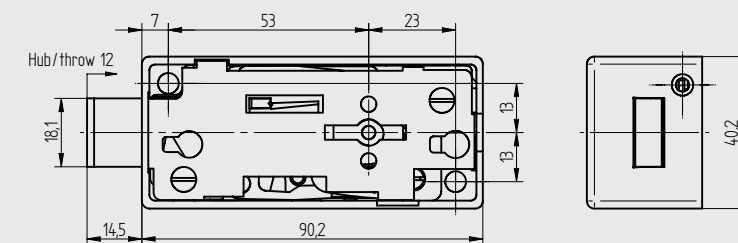
## 78051 Deposit 10



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

Scale 1:2

91



## 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				Order number	Order number
Material	Length [mm]	Usable length [mm]	Key bow	Works keys	Change activators
Brass	62.5	9	Oval	78054WB001	-
Brass	60	6.5	Oval	-	78054A0001

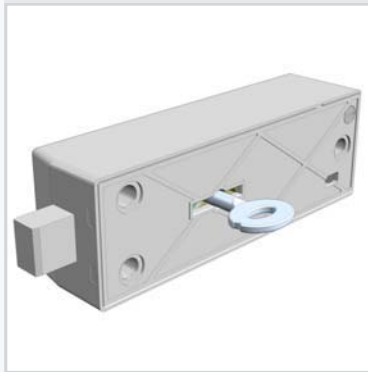
  




Keys				Order number
Material	Length, Ø stem [mm]	Usable length [mm]	Key bow	
Bank double-bitted keys with permutation number, nickel-plated				
Brass	60, Ø 5.1	6.5	Oval	78056B0001

Keys				Option code
Material	Length, Ø stem [mm]	Usable length [mm]	Key bow	
Renter double-bitted keys, nickel-plated				
Die-cast	55.5, Ø 5	10	Mauer	DSD056

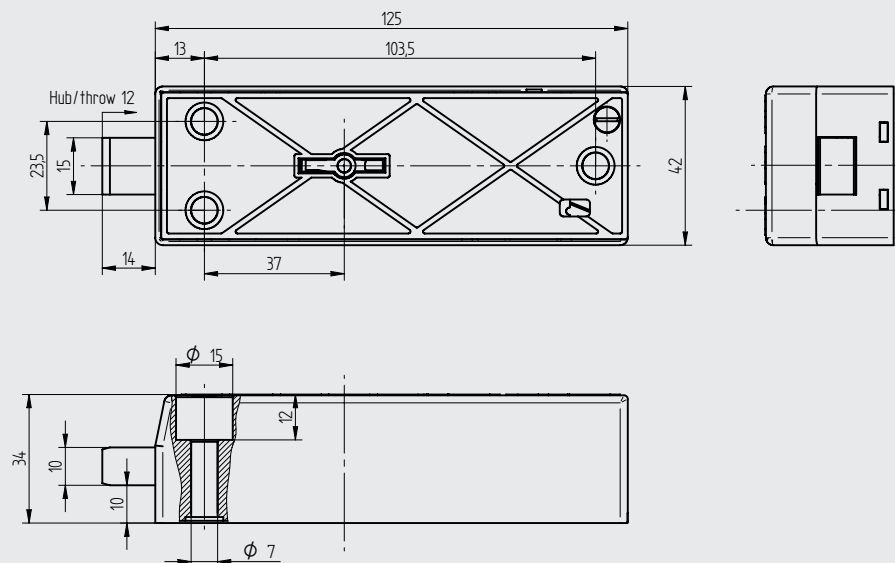
**78056 E-lo-safe M**



- |   |   |
|---|---|
|  | 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

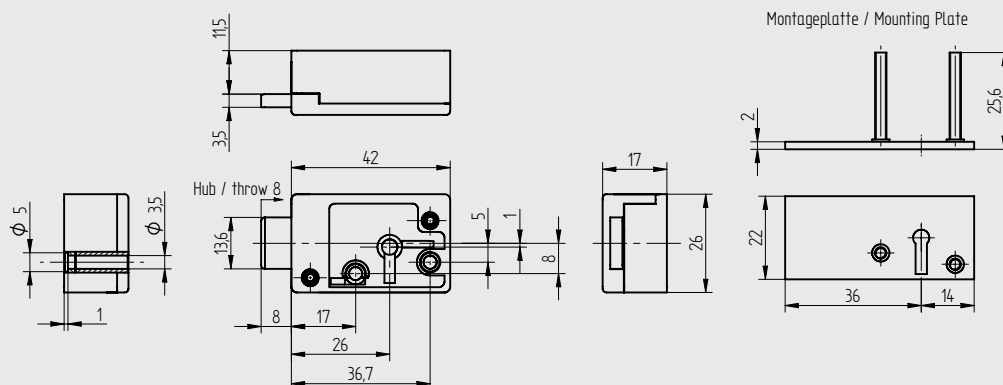
#### Keys

Material	Length, Ø stem [mm]	Usable length [mm]	Key bow
<b>Renter single-bitted keys, nickel-plated</b>			
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**  
3 102 900 030

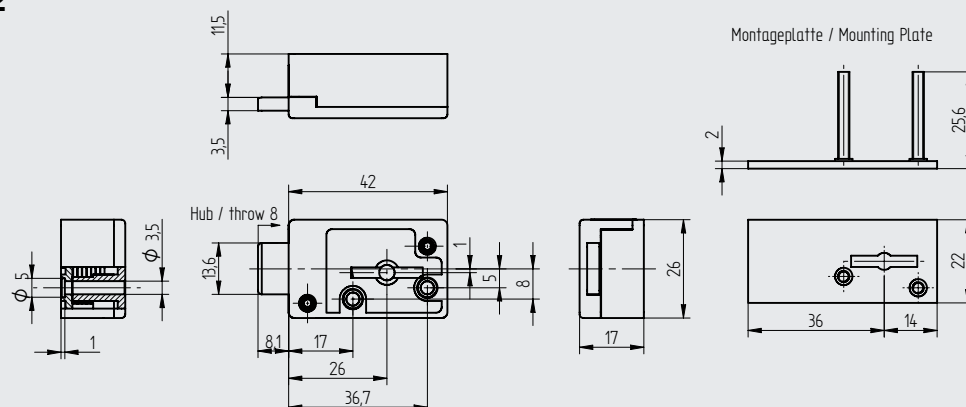
#### Keys

Material	Length, Ø stem [mm]	Usable length [mm]	Key bow
<b>Renter double-bitted keys, nickel-plated</b>			
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 7-15 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

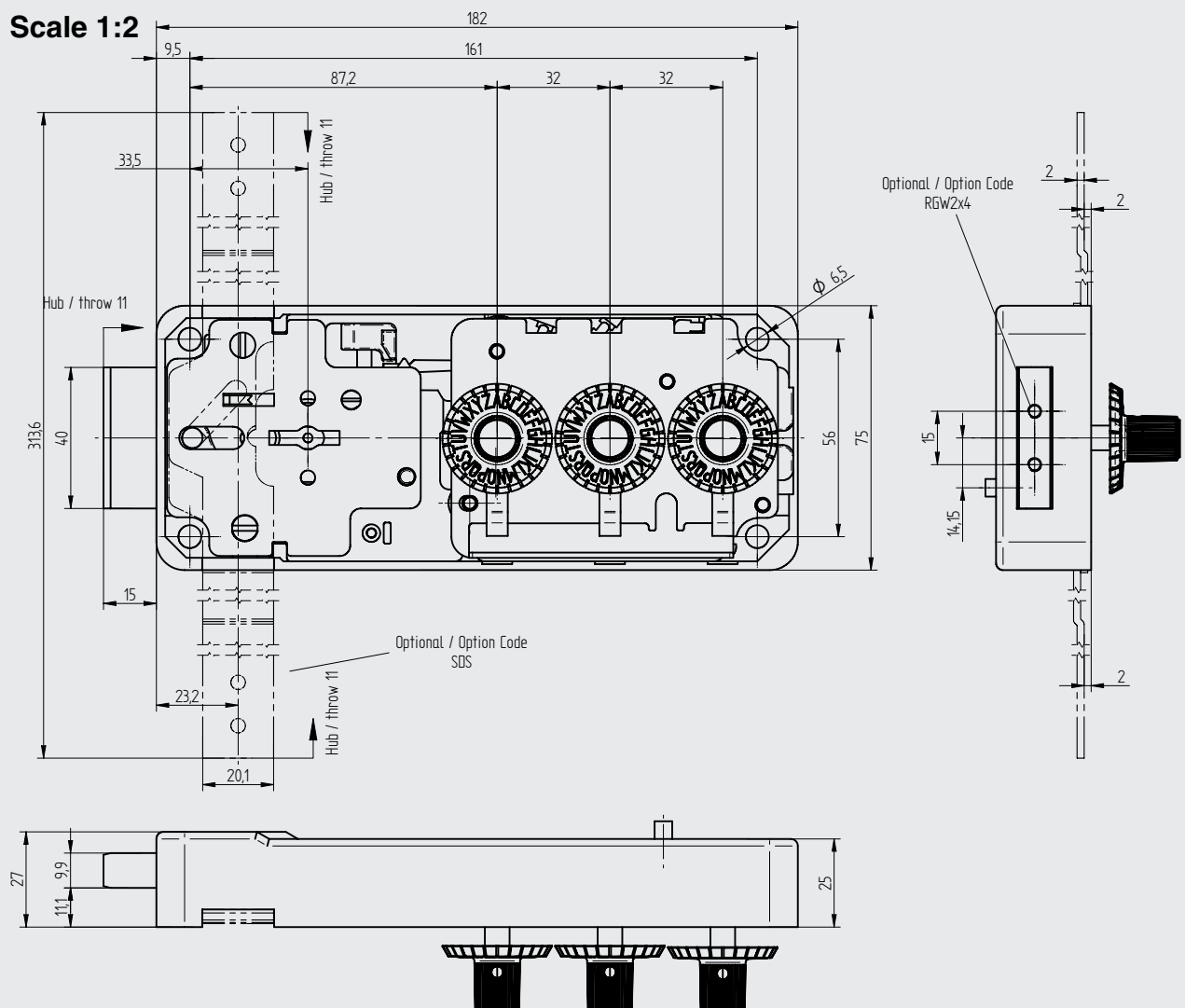
## Keys

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

97





### **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

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 <sub>min</sub> =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
<b>Renter double-bitted keys, nickel-plated</b>			
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 and door thickness)

Turning knob, for door thickness from 3-33 mm  
Turning knob, for door thickness from 34-54

**Option code**  
DKA  
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	Round
-------	----	-----	-------

**Option code**

ZST051

## Options

### Options

Tamper switch  
Lock case and bolt surface treated  
Connector

**Option code**  
AHK  
SRO  
MTA156

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	

FSK005

### Alternative operating voltage (resistance solenoid)

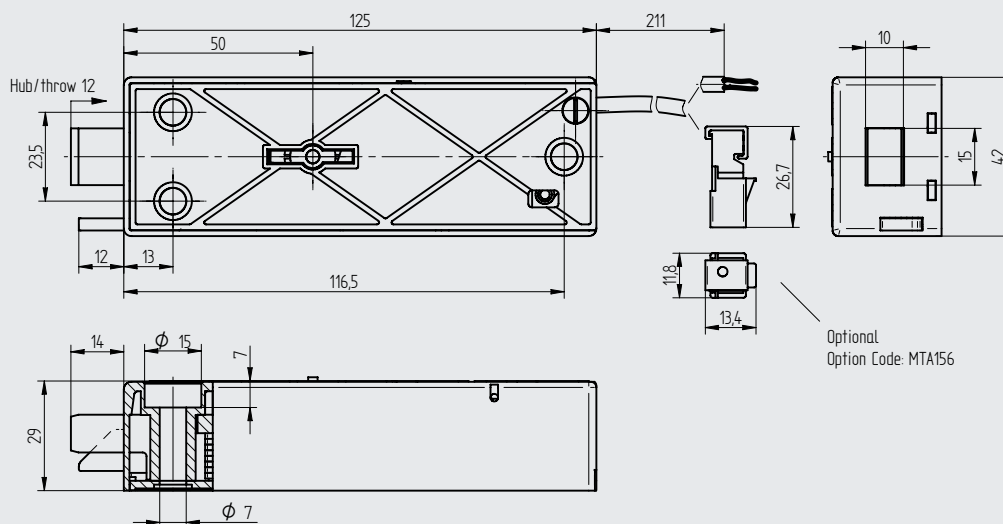
Interface	Function element	Specification	Operating time (OT)
Input	Release solenoid	148 Ohm, Umin=5 V DC	6 V: 100% OT, 12 V: 87% OT, 24 V: 15% OT
Input	Release solenoid	563 Ohm, Umin=20 V DC	24 V: 87% OT

OHM148

OHM563

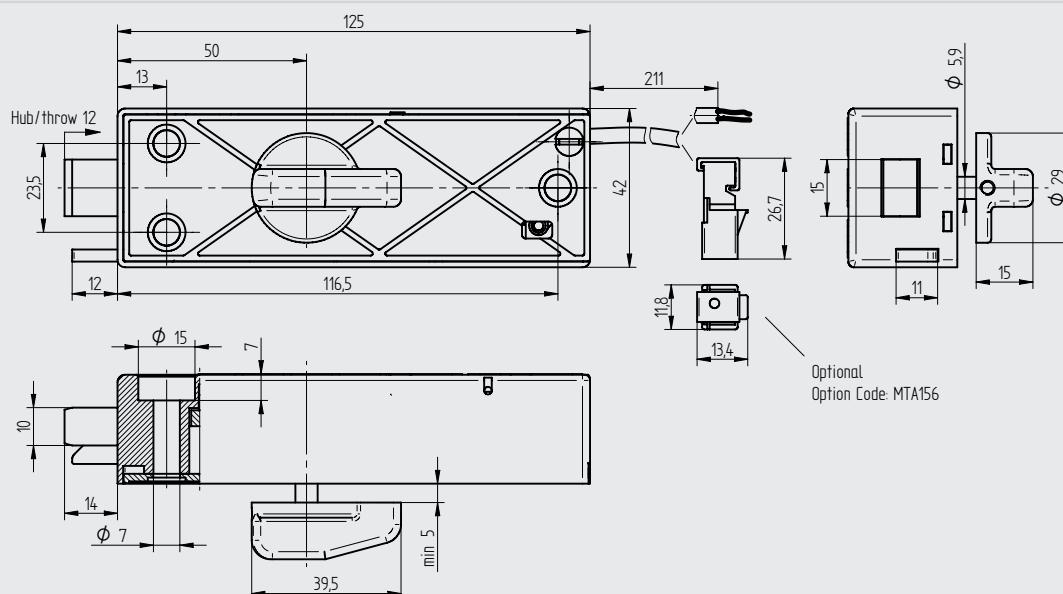
Cables in other lengths on request

Scale 1:2



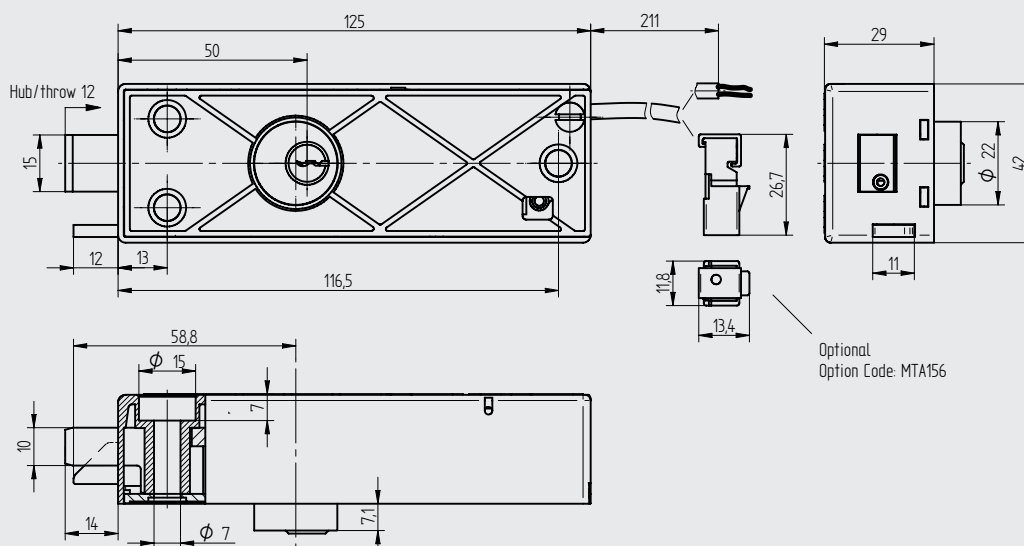
79101 E-lo-safe S

Scale 1:2



79106 E-lo-safe D

Scale 1:2



79111 E-lo-safe C

### Notes



## 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

P

73081

106

81021

108

## 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
<b>User double-bitted keys, rigid, nickel plated</b>			
Die-cast	61	20	Mauer
<b>Master double-bitted keys, rigid, nickel plated</b>			
Die-cast	72	30	Mauer

#### User double-bitted keys, rigid, nickel plated

#### Master double-bitted keys, rigid, nickel plated




#### Order number

73080W0002

73080W0001

73081 Key-so-flex



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

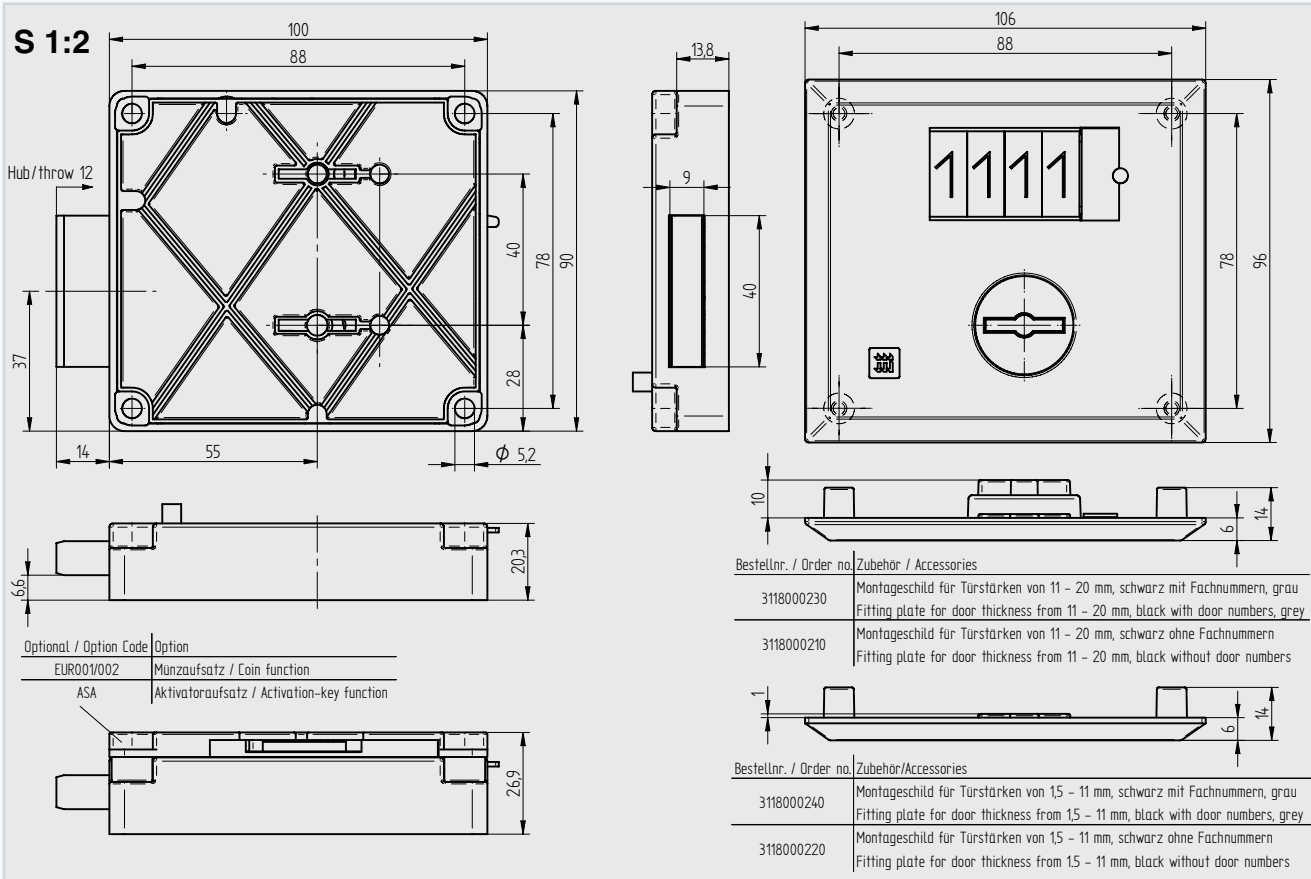
Keys

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

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.

Order number

- 73080S0003
- 73080S0006
- 73080S0005
- 73080S0004



## 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



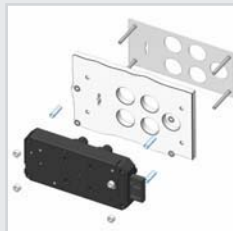
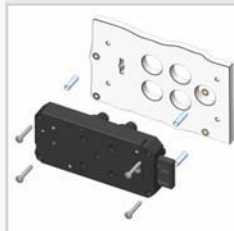
Mounting method: direct screwing



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

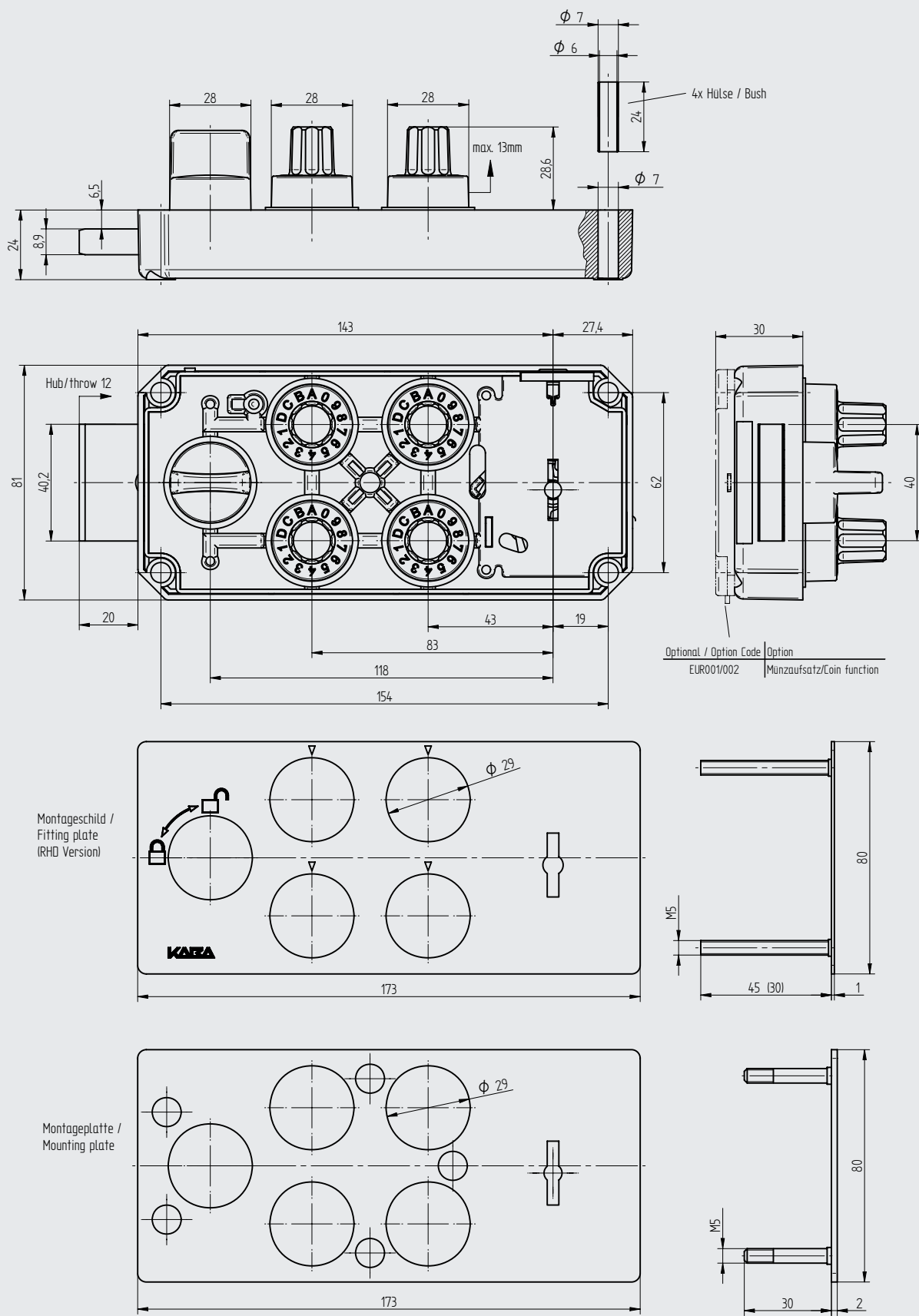
Die-cast 71

Mauer

81020S0016

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

### Scale 1:2



## Notes








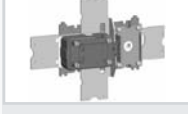

111



## 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.



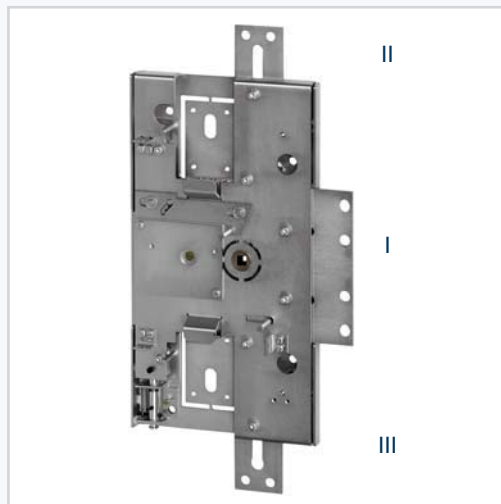
		Order code	P
        	<b>Overview</b>		
	<b>Defender 710</b> 224 x 353 mm, 2-lock operation, 1-/2-/3-/4-sided, front shaft support, integrated relockers, prepared for glass plate, gear drive	83421	114
	<b>Defender 720</b> 325 x 415 mm, 2-lock operation, 1-/2-/3-sided, front shaft support, integrated relockers, manganese steel stripes, gear drive	83501	115
	<b>Defender 520</b> 210 x 200 mm, 2-lock operation, 2-/3-/4-sided, gear drive	84011	116
	<b>Defender 510</b> 210 x 120 mm, 1-lock operation, 2-/3-/4-sided, gear drive	84012	116
	<b>Defender 520S</b> 300 x 102 mm, 2-lock operation, 2-/4-sided, gear drive	84013	117
	<b>Defender Univers</b> 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
	<b>Defender 210</b> 182 x 11 mm, 1-lock operation, 4-sided, gear drive	84041	119
	<b>Defender Module 1</b> 163 x 104 mm, 1-lock operation, 4-sided, bolt protection, crimped base plate, eccentric drive	84081	120
	<b>Defender Module 2</b> 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 CEN 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.



114

### 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

#### Option code

SES

SZS

SVS

ESB

REI

SLG

#### 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

#### Order number

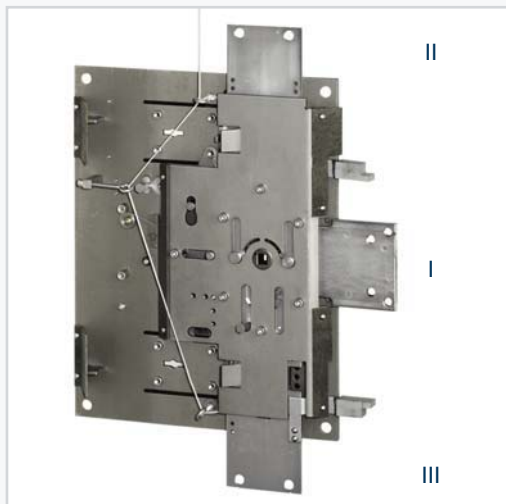
1 260 400 137

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

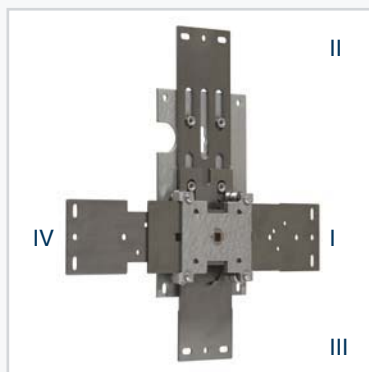
**Order number**  
1 260 400 137  
2 140 000 010  
3 118 000 080  
3 118 000 090

## 84011 Defender 520

## 84012 Defender 510

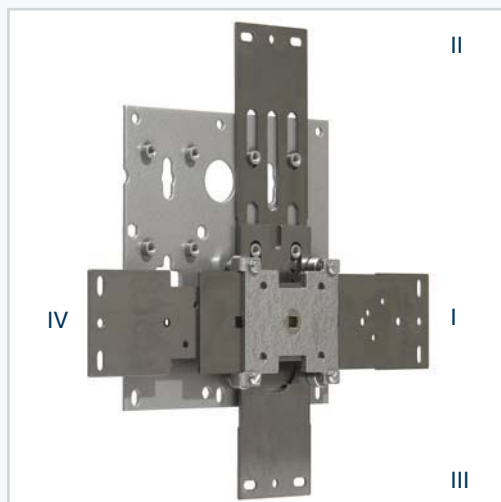
The 4-sided bolt work family is characterised by its smooth running gear wheel and its solid construction.

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 ☐



116

### 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

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

Shafts galvanised blue

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.*

#### 84011

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

#### 84012

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

#### Option code

SDS

SZS

HUB020

HUB025

SVG

VSD

ZRA011

MNB1.5

MNB003

APF

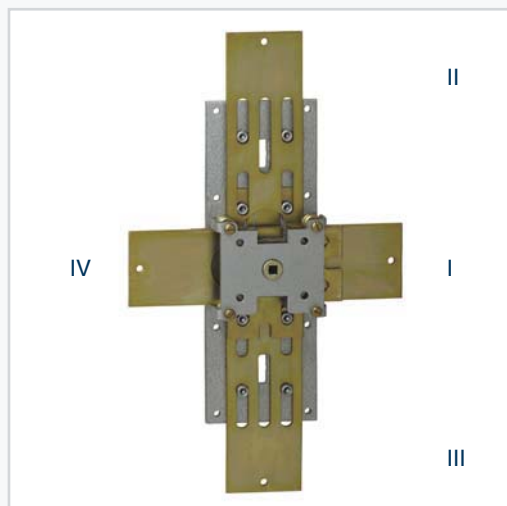
FSD

OZN

SRI

SLG

SLI



## 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, 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 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 (I, IV)

2-sided (II, III)

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)

Shafts galvanised blue

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

SZS001

SZS002

HUB020

HUB025

VSD

ZRA011

MNB1.5

MNB003

OZN

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 22 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 ¼" 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, shafts 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 ¼" 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

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

**Order code**  
84041

**Option code**  
SVG  
PSO  
MNB1.5  
SRI  
SLG  
SLI

## 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

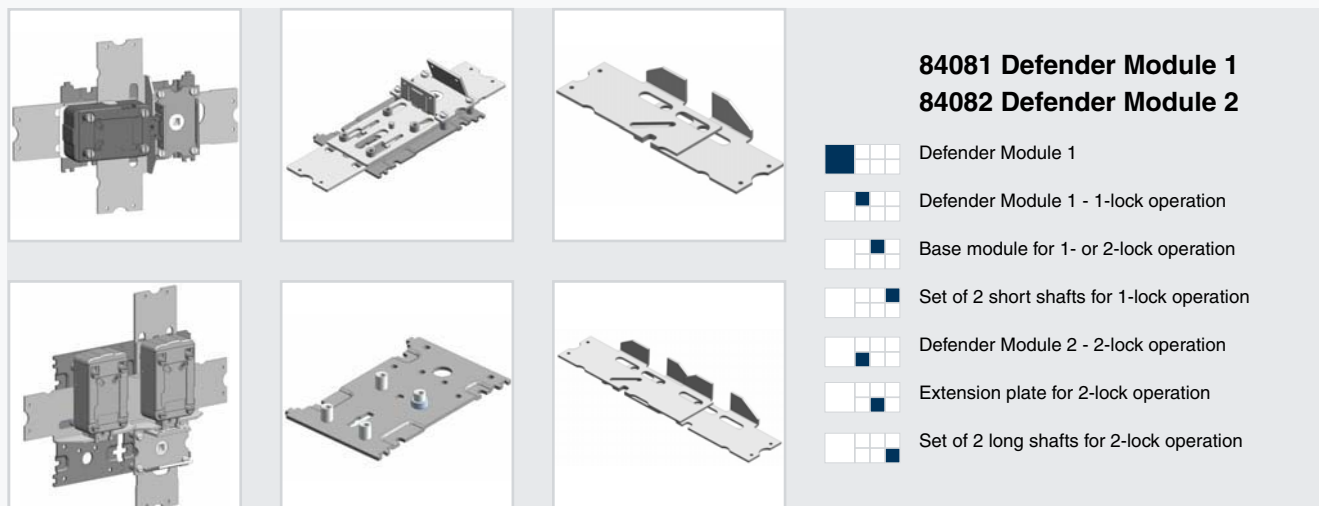
84082

#### Option code

ESE

ESZ





## 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
<b>Installation applications</b>						
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)	✓	✓ *			✓	✓ *
<b>Manipulation protection</b>						
Bolt protection with doubled manganese steel plate	✓	✓	✓			
Base module/extension plate with spot welded manganese steel plate 1.5 mm thick	✓	✓	✓	✓		
Without bolt protection	✓	✓	✓			
<b>Material/surface</b>						
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

### Option code

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
<b>Hinges</b>			
	<b>Relino 181</b> Strap hinge/bearing, height approx. 181 mm With radial and axial spherical plain bearings, adjustable	86006	125
	<b>Relino 131</b> Strap hinge/bearing, height approx. 131 mm Self-lubricating bearing bushes, adjustable thrust bearing/lead-through for cables (opt.)	86012	126
	<b>Relino 131 A</b> Strap hinge/bearing, height approx. 131 mm False hinge with lead-through for cables	86014	126
	<b>Relino 131 K</b> Bearing/bearing, height approx. 131 mm Self-lubricating bearing bushes, adjustable thrust bearing/lead-through for cables (opt.)	86017	128
	<b>Relino 71</b> Strap hinge/bearing, height approx. 71 mm Self-lubricating bearing bushes (opt.)	86023	129
	<b>Relino 106</b> Strap hinge/bearing, height approx. 106 mm Self-lubricating bearing bushes, adjustable thrust bearing/lead-through for cables (opt.)	86022	130
	<b>Relino 106 K</b> Bearing/bearing, height approx. 106 mm Self-lubricating bearing bushes, adjustable thrust bearing/lead-through for cables (opt.)	86027	130
<b>Key Guides</b>			
	<b>Vecto</b> For double-bitted keys with stem up to Ø 7 mm Drawn steel section blank, spot welded	86101	132
	<b>Vecto N</b> For key carriers 86124 and 94012 (for key retaining keys) Drawn steel section blank, spot welded	86102	132
	<b>Vecto A</b> For key carrier 86124 (for non key retaining keys) Drawn steel section blank, spot welded	86103	132
<b>Blocking Bolts</b>			
	<b>Relocker B</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

### 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

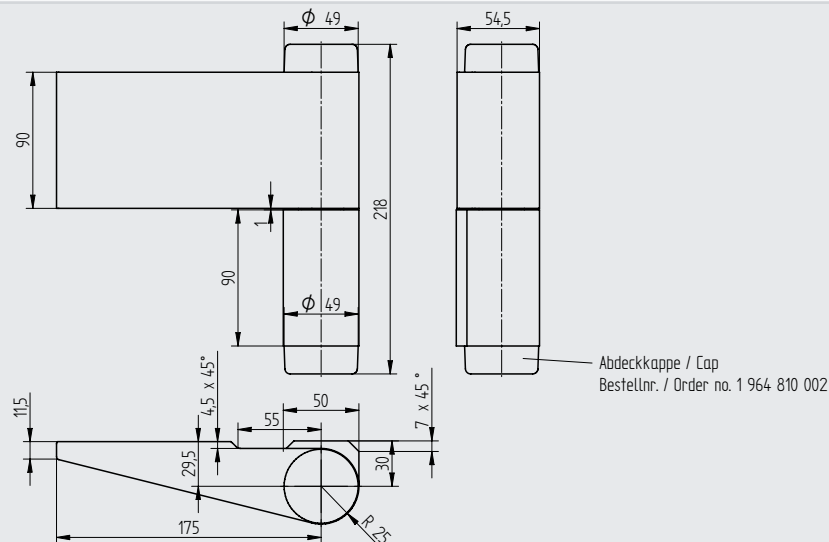
125

**Order code**  
86006

**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 (not for use in conjunction with option ASL008)	✓	
Upper hinge: movable bearing with lift blocking M8 (not for use in conjunction with option KBL)	✓	
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

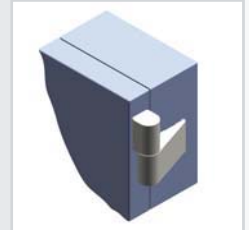
## 86012 Relino 131 86014 Relino 131 A



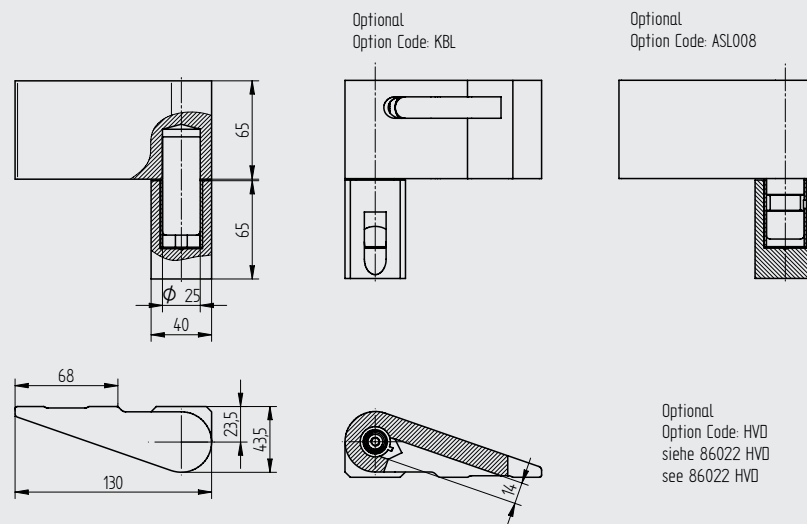
Relino 131 with aluminium caps

Relino 131 A with aluminium caps

**Installation applications**  
Plane (left)  
Docked (right)

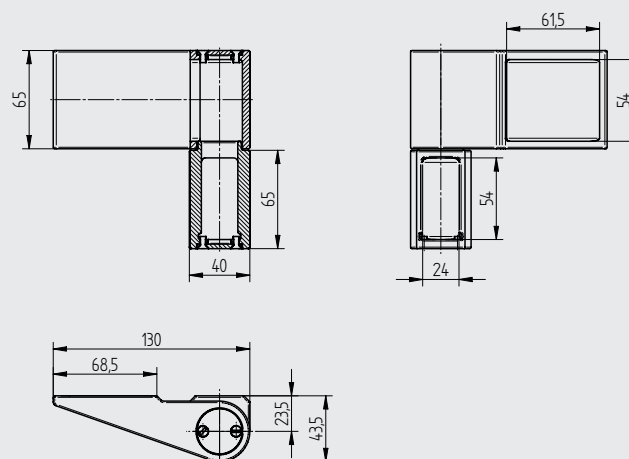


**Scale 1:5**



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 (not for use in conjunction with option ASL008)  
Upper hinge: movable bearing with lift blocking M8 (not for use in conjunction with option KBL)  
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.*

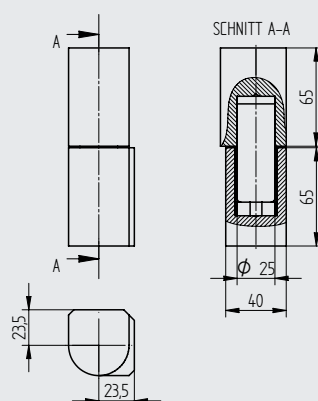
**Option code**  
KBL  
ASL008  
HVD\*  
AAX038

#### Accessories

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

**Order number**  
1 483 380 000

### Scale 1:5



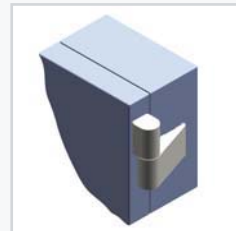




## 86023 Relino 71

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

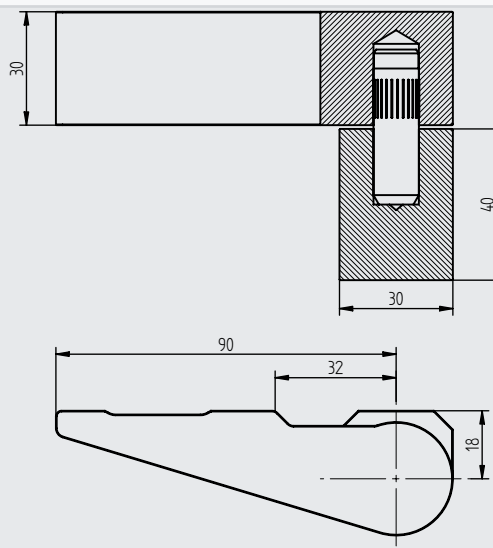
**Order code**  
86023

### 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 (not for use in conjunction with option ASL008)	✓	✓
Upper hinge: movable bearing with lift blocking M8 (not for use in conjunction with option KBL)	✓	✓
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	✓	✓

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

**Option code**  
KBL

ASL008

HVD\*  
GSH101  
SRL  
EUK

EAL  
AKG028  
AKC028  
AAX028

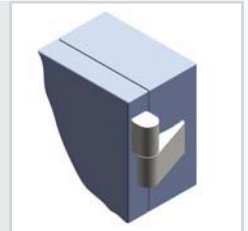
## 86022 Relino 106 86027 Relino 106 K

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

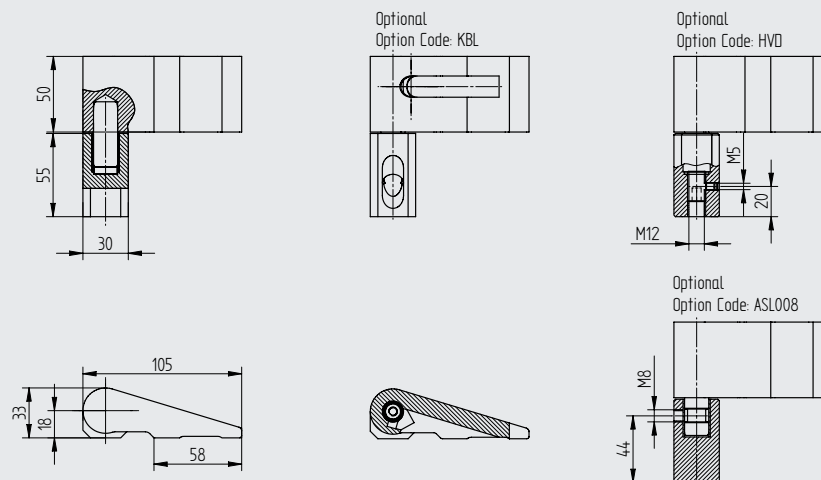
- 1 cap, plastic, gold coloured, Ø 28 mm
- 1 cap, plastic, satin chrome, Ø 28 mm
- 1 cap, aluminium EV1 anodised, Ø 28 mm

### Order number

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

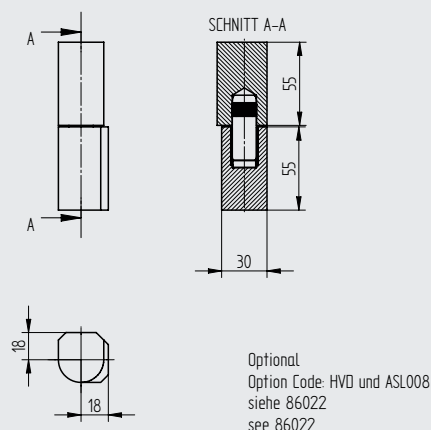
131

## Scale 1:5



86022 Relino 106

## Scale 1:5



86027 Relino 106 K

## 86101 Vecto

## 86102 Vecto N

## 86103 Vecto A

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.

Vecto



Vecto N



Vecto A



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

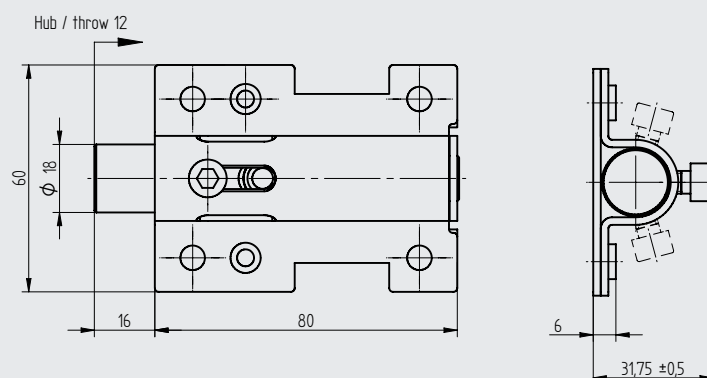
#### Specifications

Blocking bolt Ø 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

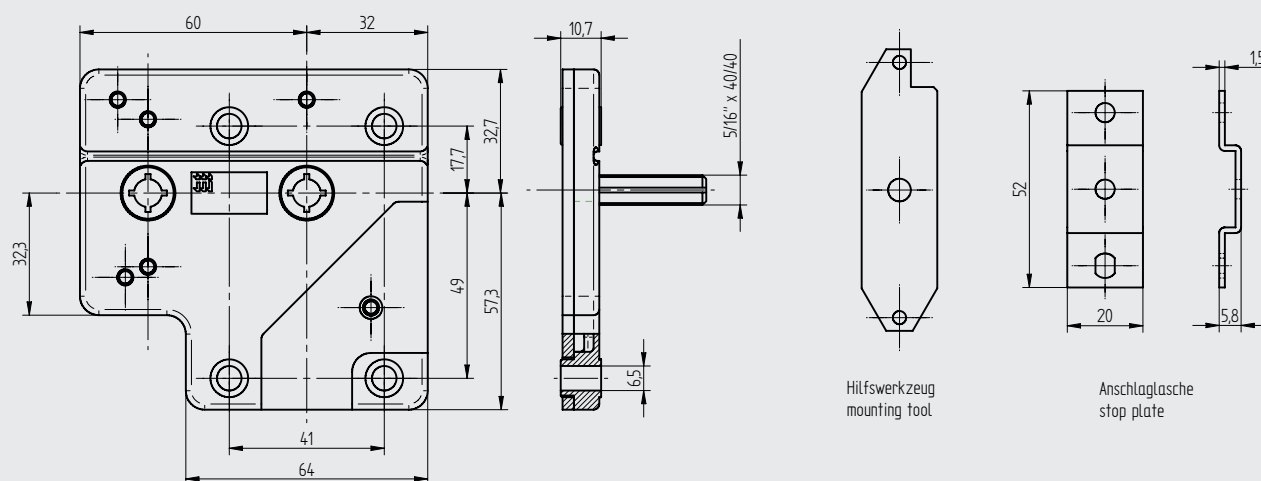
**Order code**  
86301

### 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

**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

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

**Order code**  
87011

**Order code**  
87016

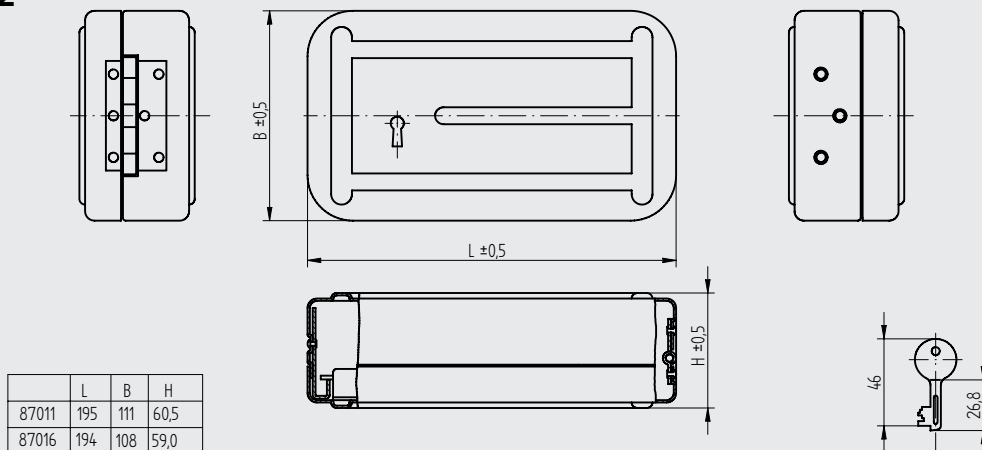
**Option code**

EFT048

EGT050

135

### Scale 1:2



## 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

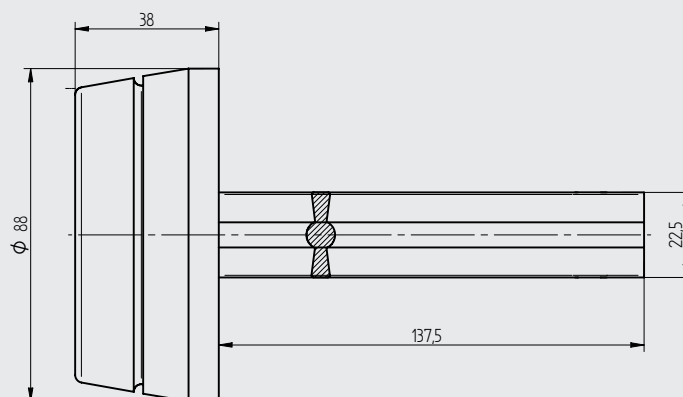
**Order code**  
94011

### Options

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

**Option code**  
PSB

### Scale 1:2









## 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



### Medos 205

Handle, polished aluminium EV1 anodised  
Length 205 mm, square spindle □ 11 mm



### Taloz 210

Handle, polished aluminium EV1 anodised,  
Length 210 mm, square spindle □ 11 mm, push-on rosette (opt.)



### Taloz 150

Handle, polished aluminium EV1 anodised  
Length 150 mm, square spindle □ 8 mm (□ 11 mm opt.), screw-on rosette (opt.)



### Taloz 125

Handle, polished aluminium EV1 anodised  
Length 125 mm, square spindle □ 8 mm (□ 11 mm opt.)



### Ceres 143

Handle, polished aluminium EV1 anodised  
Length 143 mm, square spindle □ 8 mm (□ 11 mm opt.), screw-on/push-on rosette (opt.)



### Ceres 163

Handle, polished aluminium EV1 anodised  
Length 163 mm, square spindle □ 8 mm (□ 11 mm opt.), screw-on/push-on rosette (opt.)



### Alea

Handle, polished aluminium EV1 anodised  
Ø 97 mm, square spindle □ 8 mm



### Alea K

Handle, polished aluminium EV1 anodised  
Ø 97 mm, square spindle □ 8 mm



### Alea B

Handle, polished aluminium EV1 anodised  
Ø 97 mm, square spindle □ 8 mm



### Ilos

Handle, polished aluminium EV1 anodised  
Length 156 mm, interior width 100 mm



### Pallas

Handle, die-cast, coated, black  
Ø 100 mm, square spindle □ 8 mm



### Univers

Handle  
Length 98 mm, 2-colour plastic, square spindle □ 8 mm

## Order code

## P

90027

143

90029

144

90030

144

90032

144

90035

146

90037

146

91063

148

91065

148

91080

148

92041

150

91037

151

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

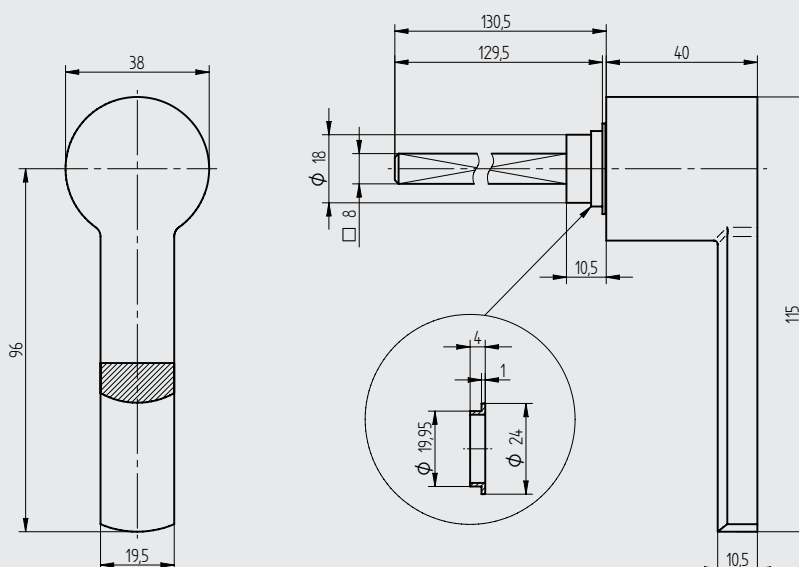
**Order code**  
**90005**

## 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





**90011**  
**Idas 135**

## Basic Features

**Handle**  
**Idas 135 - standard**

### Specifications

Handle 135 mm

Polished aluminium EV1 anodised

Square spindle  $\square$  8 mm, projecting 119.5 mm, steel tin coated

Two part screw-on rosette with anti-removal catch, external diameter 65 mm, polished aluminium EV1 anodised, integrated bearing bush, brass

Weight approx. 350 g

**Order code**  
**90011**

## Options

### Options

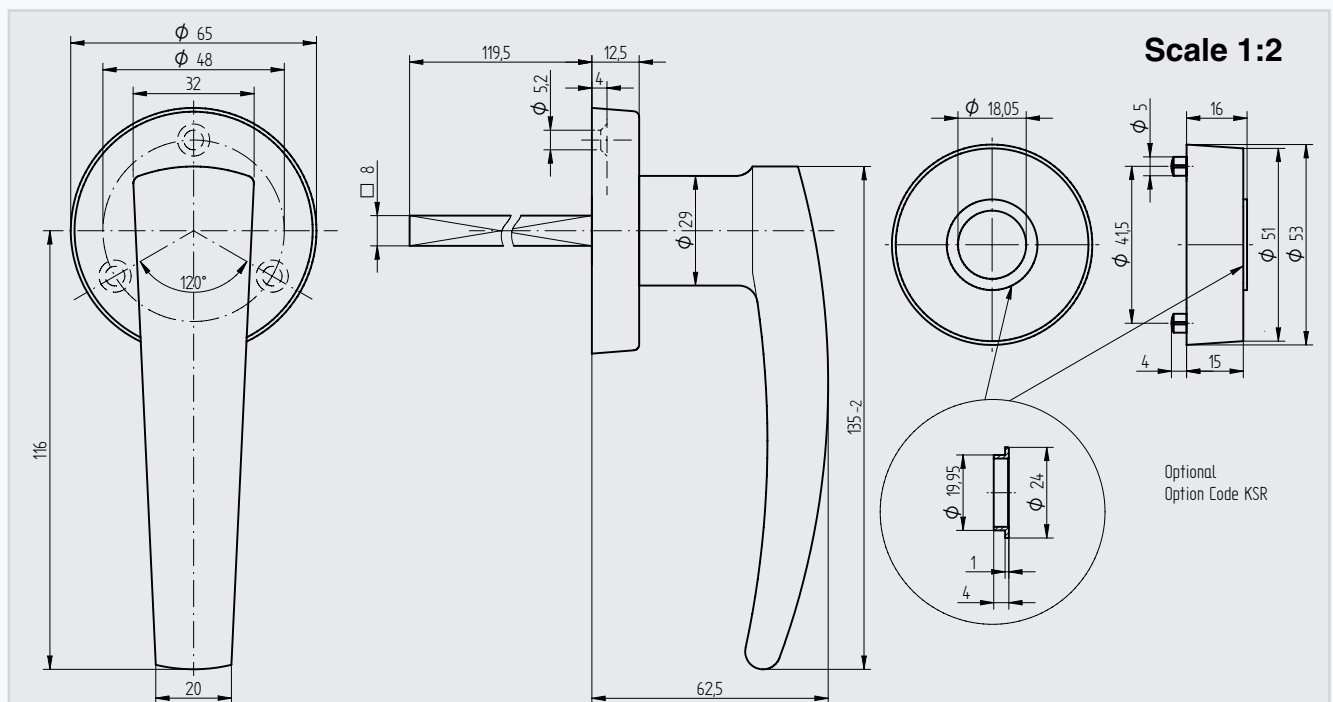
Square spindle  $\square$  11 mm, steel blank

Square spindle in other lengths, steel blank (minimum order 100 units)

Coated, black

Conical push-on rosette instead of screw-on rosette,  $\varnothing$  51/53 x 16 mm, polished aluminium EV1 anodised, 2 slotted pins, integrated bearing bush, brass

**Option code**  
**VKS011**  
**VKVxxx**  
**OKS**  
**KSR**



## 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

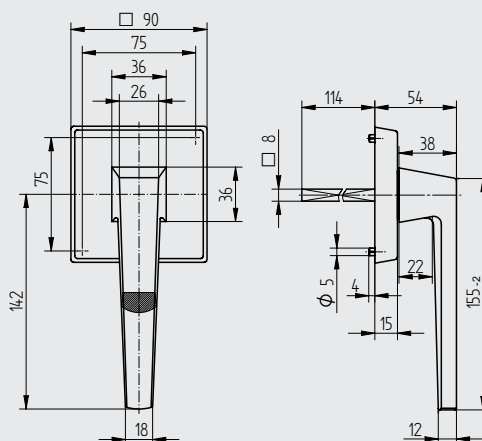
**Order code**  
90023

### 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

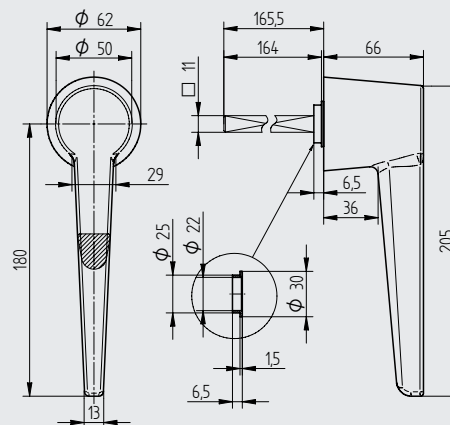
**Options**  
Square spindle in other lengths, steel blank (minimum order 100 units)  
Coated, black

**Order code**  
90027

**Option code**  
VKVxxx  
OKS

143

## 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

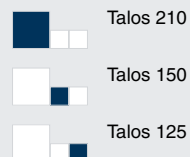
VKS011

VKVxxx

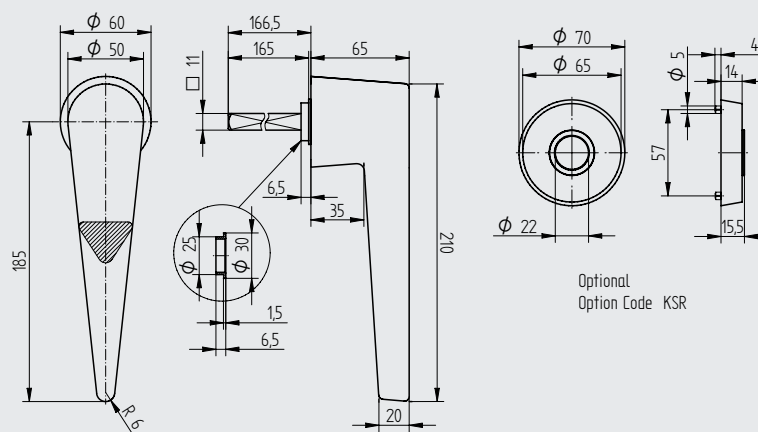
OKS



**90029 Talos 210**  
**90030 Talos 150**  
**90032 Talos 125**

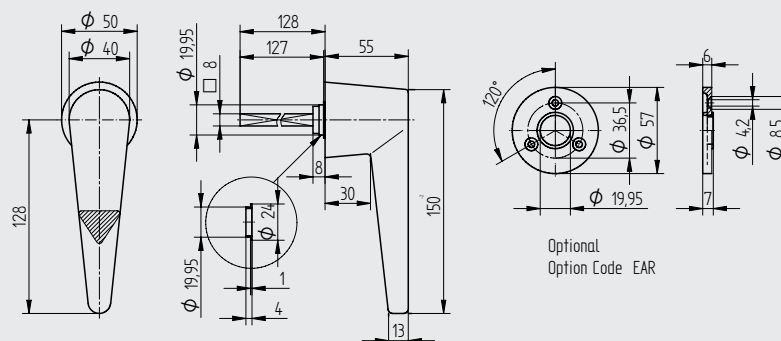


**Scale 1:5**



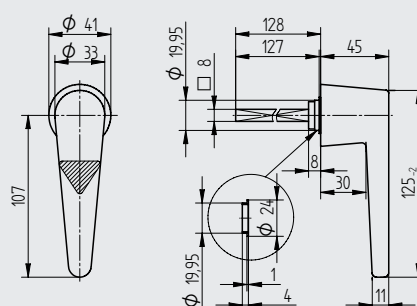
90029 Talos 210

**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

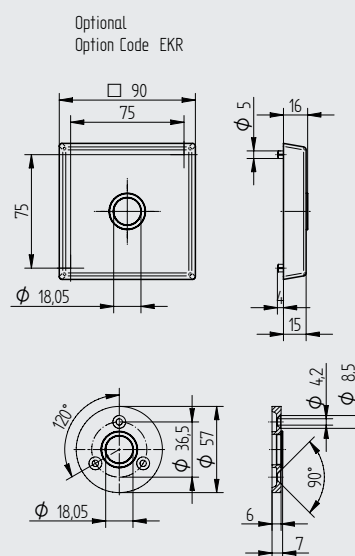
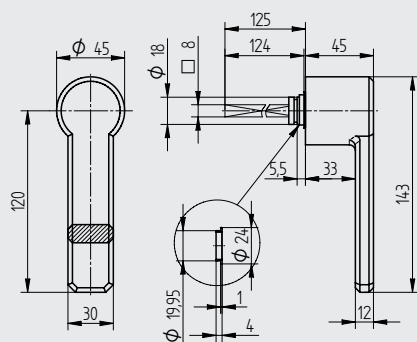
## 90035 Ceres 143

## 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

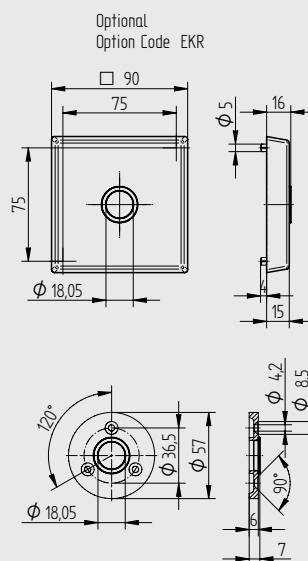
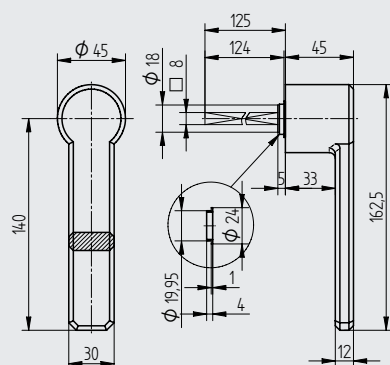


Optional  
Option Code EKR

Optional  
Option Code EAR

90035 Ceres 143

### Scale 1:5



Optional  
Option Code EKR

Optional  
Option Code EAR

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

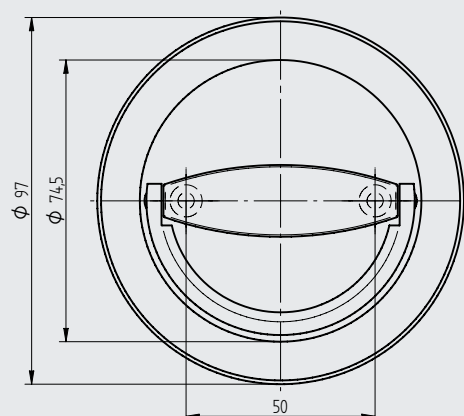
Square spindle □ 11 mm, steel blank  
 Square spindle in other lengths, steel blank (minimum order 100 units)  
 Coated, black

**Option code**  
 VKS011  
 VKVxxx  
 OKS

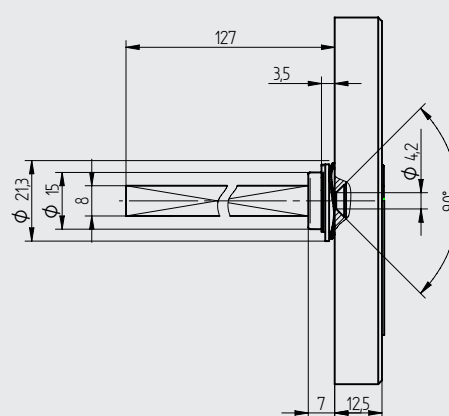
## 91063 Alea 91065 Alea K 91080 Alea B



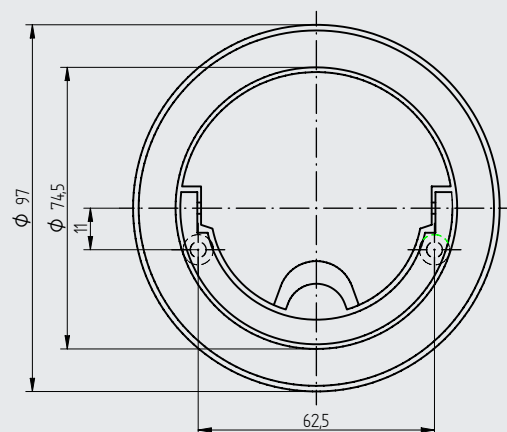
Scale 1:2



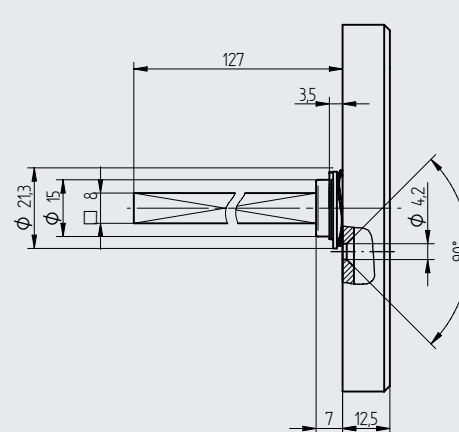
91063 Alea



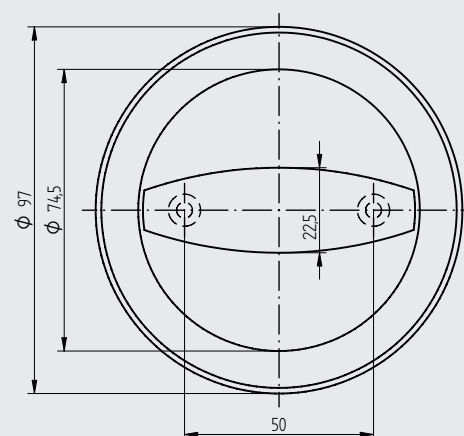
Scale 1:2



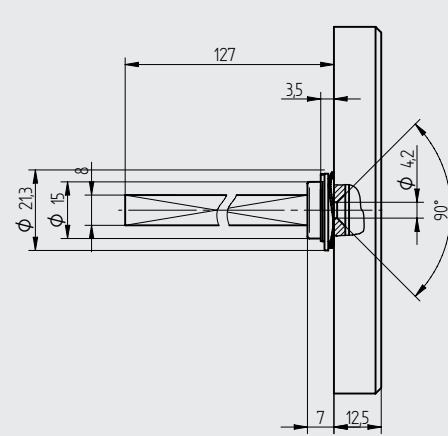
91065 Alea K



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

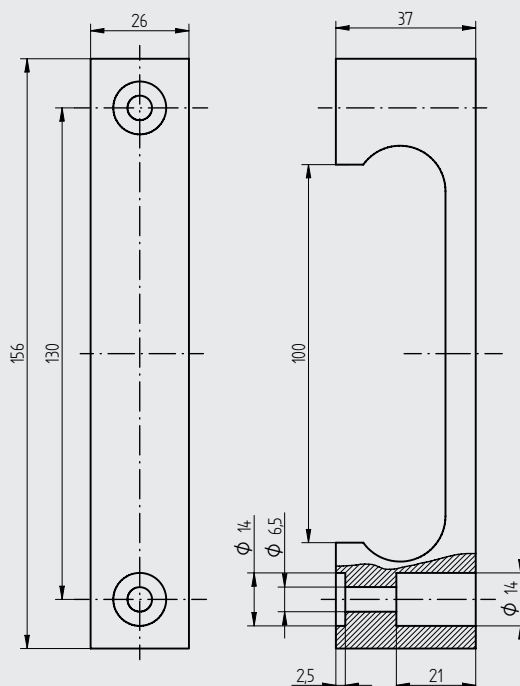
**Order code**  
92041

### 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

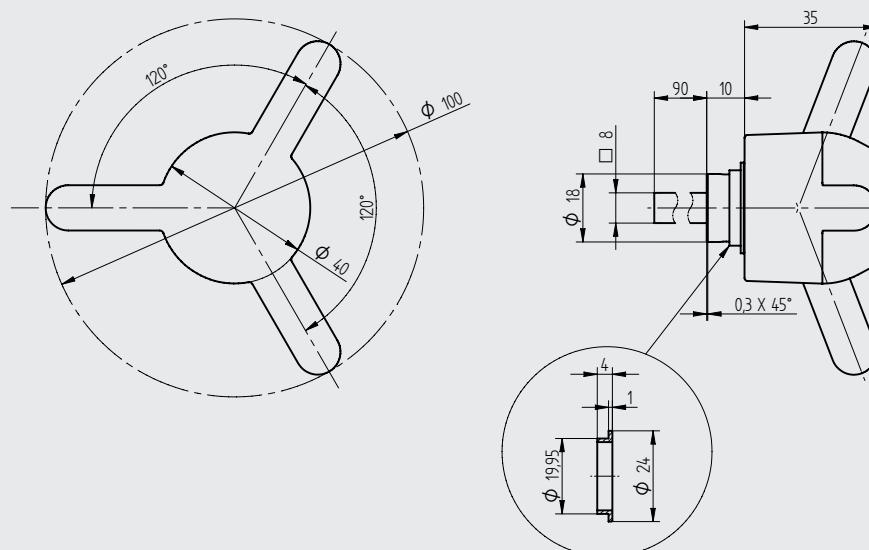
**Options**  
Square spindle in other lengths, steel blank (minimum order 100 units)  
Other coatings on request

**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

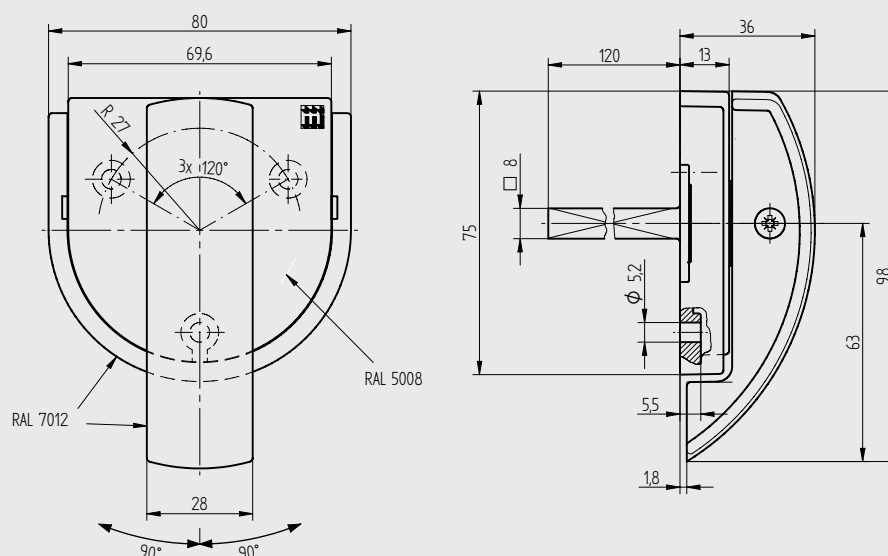
Delivery as loose components

Weight approx. 160 g

#### Order code

90045

### Scale 1:2















### Fittings: Escutcheons

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

		Order code	P
     	<b>Overview</b>		
	<b>Stega 50</b> Escutcheon Ø 50 mm, polished aluminium EV1 anodised, keyhole not concentric	93000	156
	<b>Stega 63</b> Escutcheon Ø 63 mm, polished aluminium EV1 anodised, keyhole concentric	93001	156
	<b>Stega Servant</b> Escutcheon for key carrier 86124 Servant K Ø 80 mm, polished aluminium EV1 anodised	93070	156
	<b>Decora 50</b> Escutcheon Ø 50 mm, polished aluminium EV1 anodised, keyhole not concentric	93003	158
	<b>Decora 63</b> Escutcheon Ø 63 mm, polished aluminium EV1 anodised, keyhole concentric	93004	158
	<b>Stega Univers</b> Escutcheon Dimension 80 x 75 mm, 2-colour plastic, key guide rotatable	93011	159

93000 Stega 50  
93001 Stega 63  
93070 Stega Servant



156

## 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)



**Mounting situation lock**

Bolt up

**Option code**

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



**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

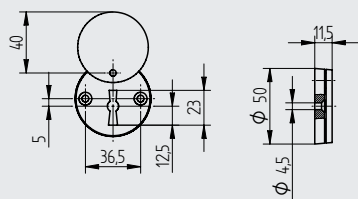
Suitable for vertical locks (bolt up)

**Order code**  
 93070

**Option code**  
 SNR

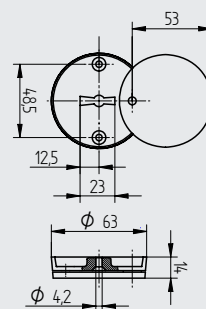
157

## Scale 1:5



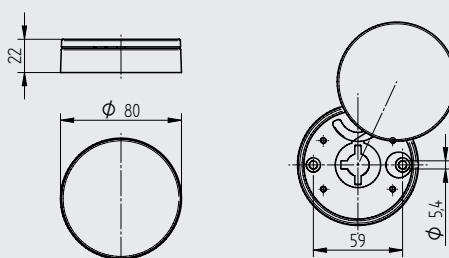
93000 Stega 50

## Scale 1:5



93001 Stega 63

## Scale 1:5



93070 Stega Servant

93003 Decora 50

93004 Decora 63



Decora 50

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

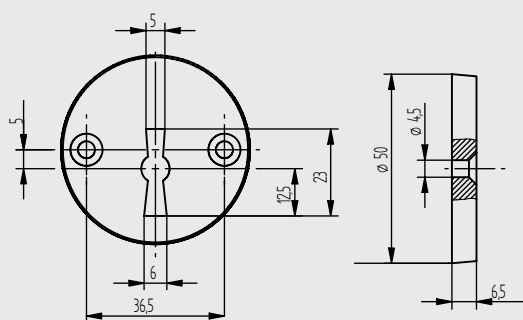
## Options

### Options

Short bit down  
Bits in the same length  
Coated, black

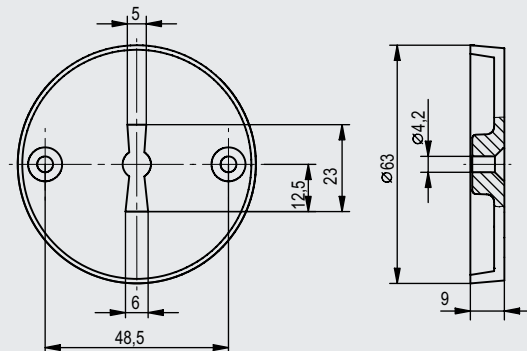
**Option code**  
SBU  
SBG  
OKS

## Scale 1:2



93003 Decora 50

## Scale 1:2



93004 Decora 63



## 93011 Stega Univers

2-colour escutcheon with rotatable 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

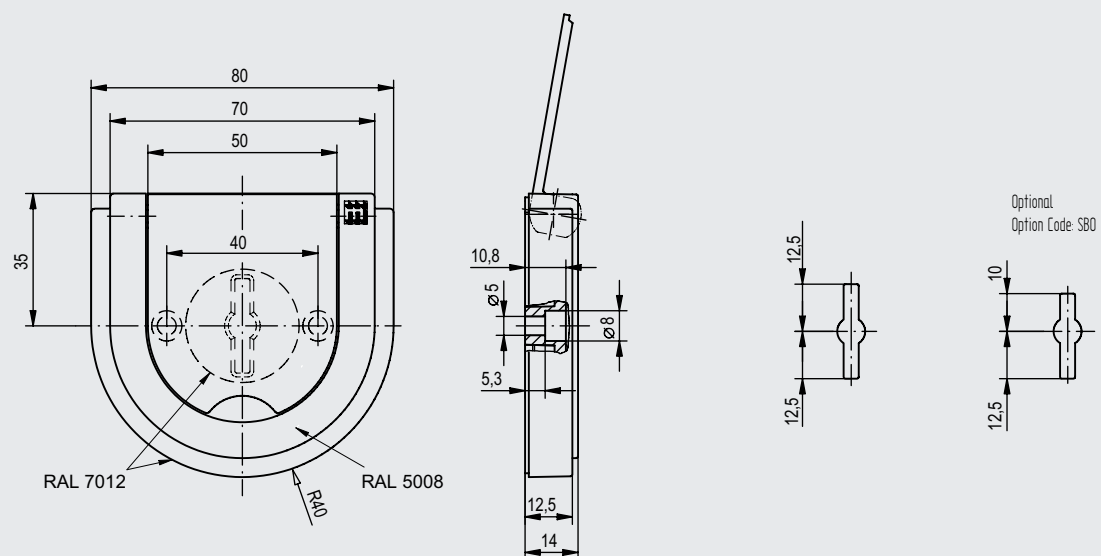
**Options**  
Key guide rotatable (works setting vertical), for key retaining locks (short bit up)

**Order code**  
**93011**

**Option code**  
**SBO**

159

### Scale 1:2





### **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

161

95025

164

95041

165

95065

166

## 94010 Depravo K

The conical dial & ring combination Depravo K 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 50.

Different spindle lengths are available.



162

### Basic Features

**Dial & ring combination**  
**Depravo K - standard**

#### Specifications

External diameter 88 mm

Polished aluminium EV1 anodised

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. 420 g

**Order code**  
94010

### 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)

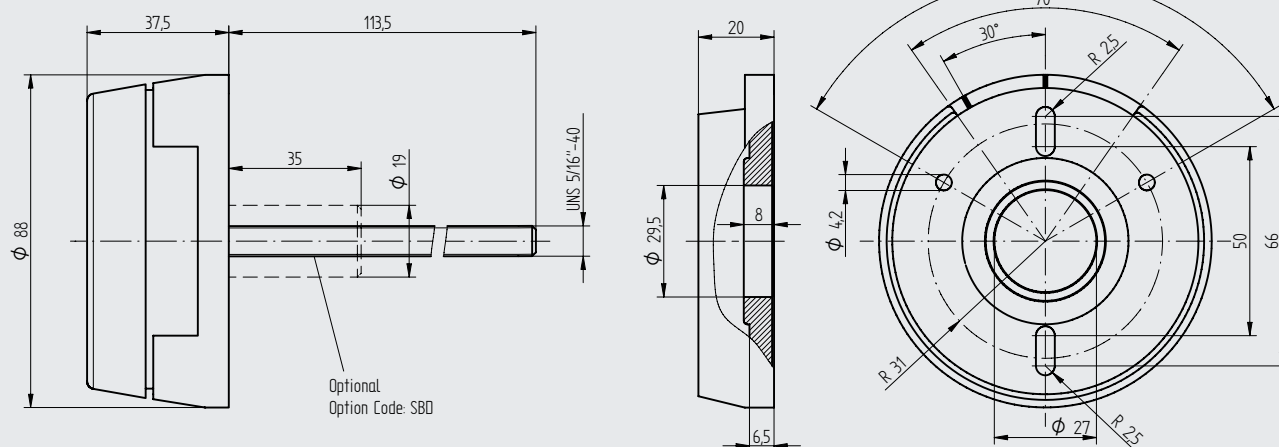
Spindle with protection against drilling and breakthrough, Ø 19 x 35 mm

Window offset 15° to the left

**Option code**  
SPV043  
SPV200  
SPV300  
SBD  
SFV

### Scale 1:2

Einzelteil "Ring"  
Component "ring"





## 94021 Ilco D50

The conical dial & ring combination Ilco D50 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**

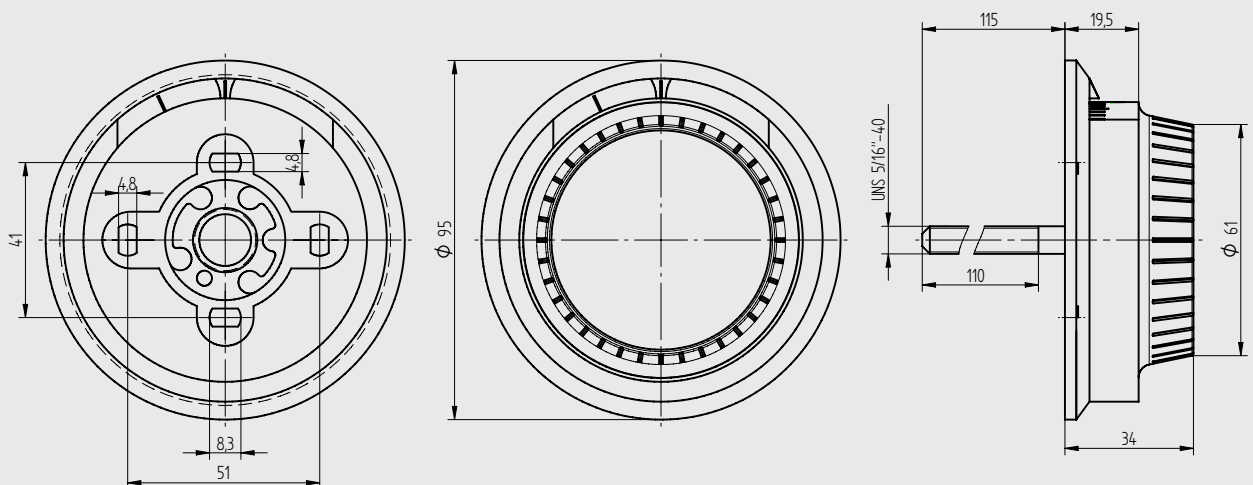
#### Specifications

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.



164

### 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

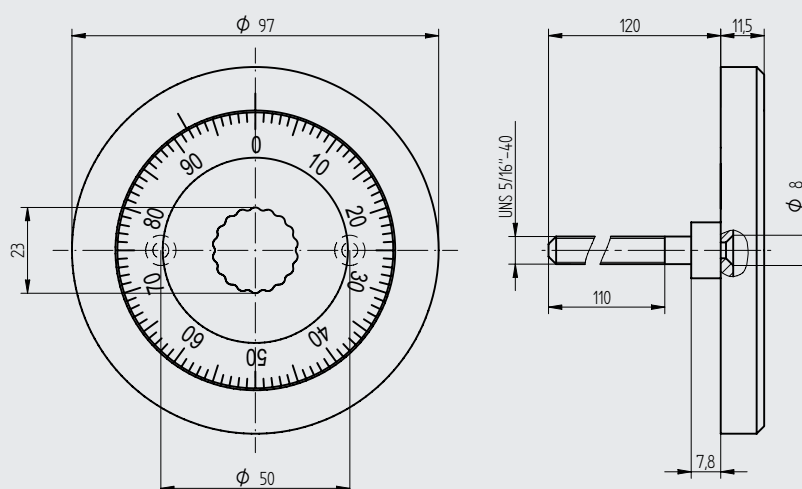
Spindle projecting 43 mm (43 mm effective thread)

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

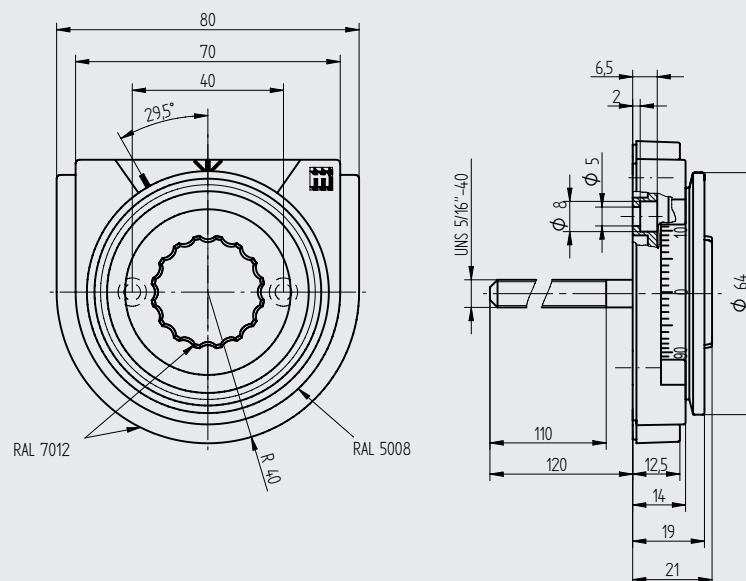
#### Options

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.



166

### Basic Features

**Dial & ring combination**  
**Ilco D30 - standard**

#### 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

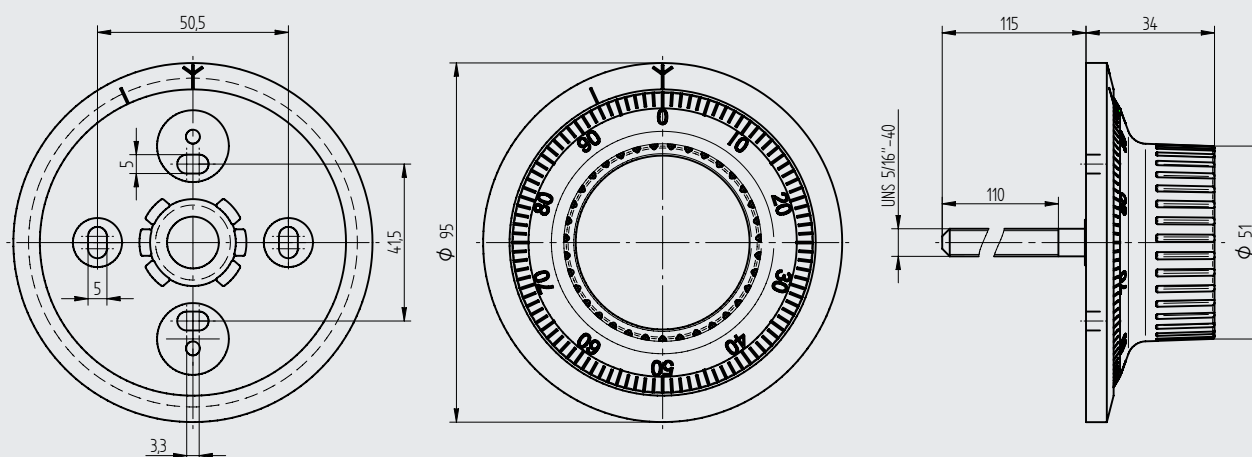
Dial splined on 43

Suitable for Kaba Ilco Spline

Weight approx. 420 g

**Order code**  
**95065**

### Scale 1:2



## Notes



### 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.



170

### 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, Ø 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, Ø 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, Ø 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
Square spindle □ 11 mm, steel blank	✓	✓	✓
Square spindle in other lengths, steel blank (minimum order 100 units)	✓	✓	✓
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**  
VKS011  
VKVxxx  
  
SPV043  
SPV200  
SPV300

## 96003 Aduno S 96071 Aduno K 96073 Aduno G



Aduno S - handle/escutcheon



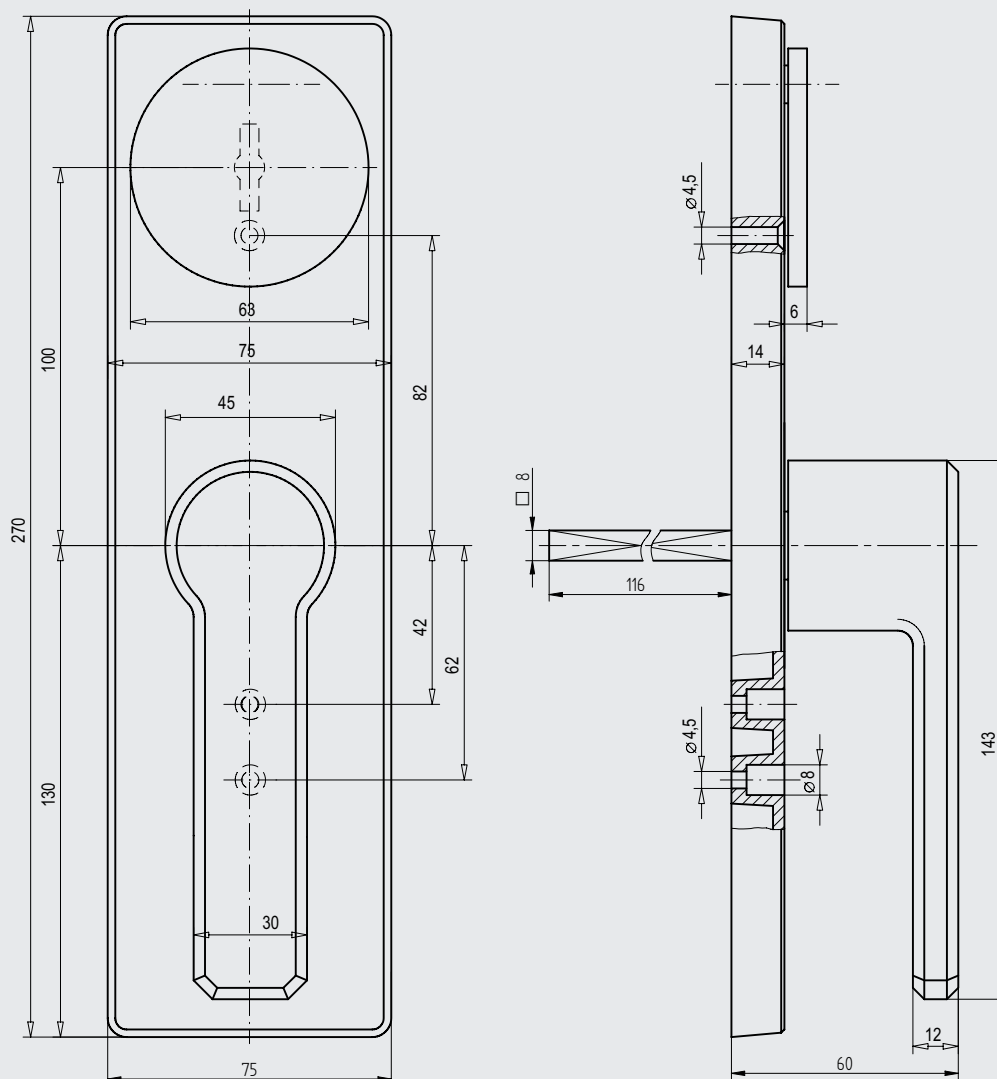
Aduno K - handle/dial & ring combination



Aduno G - handle/dial & ring combination

Scale 1:2

171



## Notes

172

## Notes

## 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 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](http://www.kaba-mauer.de)  
Email [info@kmh.kaba.com](mailto:info@kmh.kaba.com)