



Products and services AccessOne

Connect people. Create access.



Special notes

CEStronics accepts no liabilities for errors including printing errors; Subject to technical changes without notice

Subject to technical changes without notice

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Online and offline interaction

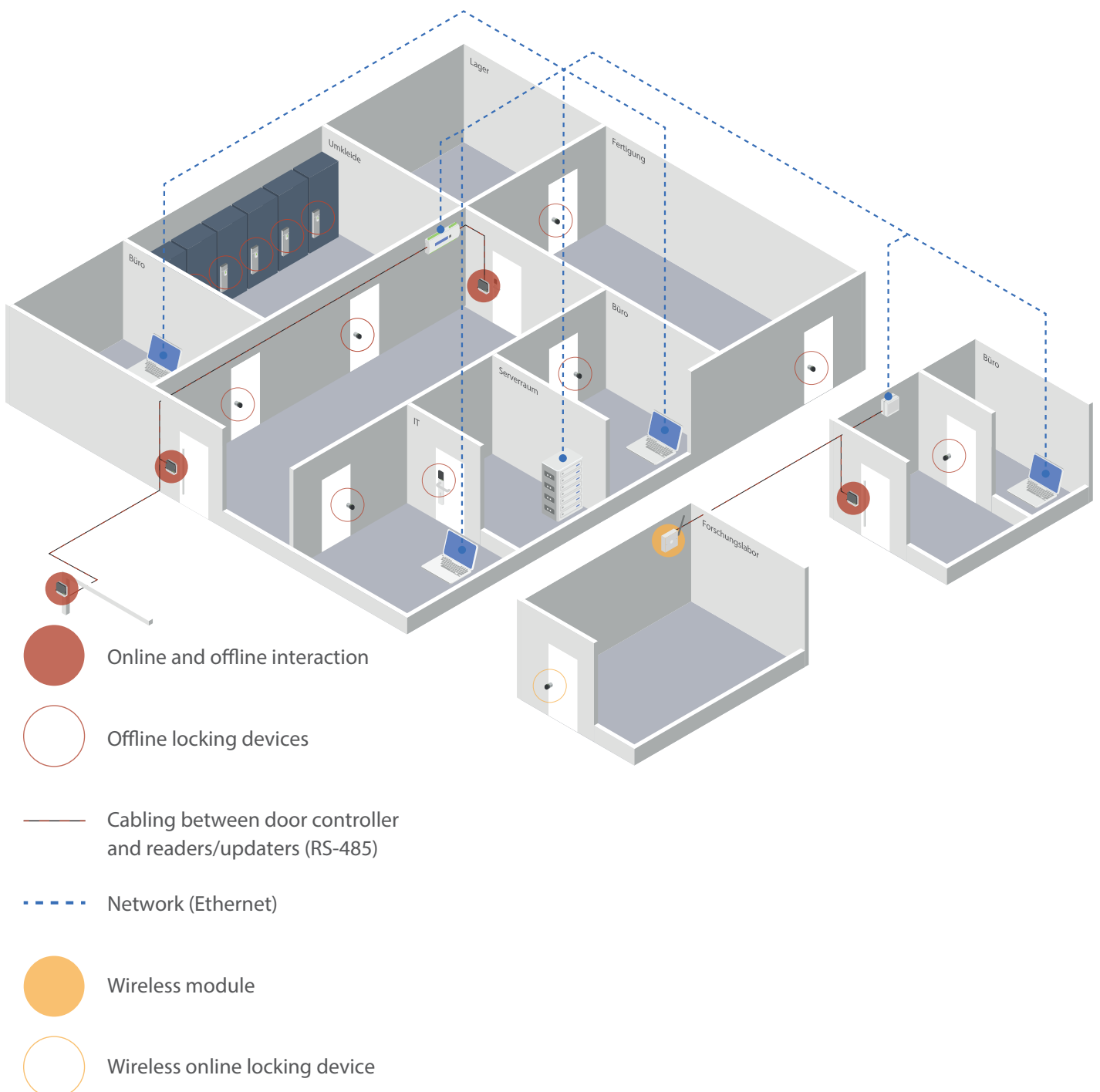
AccessOne can handle all kinds of different scenarios by combining online access control and offline locking devices, enabling you to create effective yet cost-effective access solutions.

Flexibly scalable access control

- Can be extended to handle up to 200,000 locking media/ID cards with up to 16,000 online readers and up to 100,000 offline locking devices.

High system security

- Communication with end-to-end 128-bit AES encryption
- Configurable automatic software logout
- Process monitoring with auto restart if an error occurs
- Fail safe security via optional UPS concepts
- Optional server redundancy concept



AccessOne software: higher-level central access controller

- Can be extended from a solution for SMEs with a few doors and up to 200 staff to the full version for large companies with complex organisational and security requirements and up to 200,000 employees.
 - User-oriented views that are easy to understand
 - Time models, day models, automatic public holiday calculation
 - Data is protected against access via highly configurable profiles
 - Multi-level rights assignment via authorisations and authorisation profiles
 - Up to 2,000 authorisations and 2,000 authorisation profiles
 - Easy access configuration using predefined door models for e.g. Turnstiles with readers at the entrance and exit
 - Access road with counting
 - Doors with gateway function can be used in both directions
 - Input with activation of the burglar alarm system
 - and much more
- All data changes are recorded in the log
 - Can be upgraded with multiple licences
- Options:
- Up to 100 different clients
 - Integrated ID card creation
 - Visitor or third-party supplier administration using a web application
 - Parking space control and administration
 - Time recording
- Customer-specific extensions also possible – please tell us about your requirements.

System requirements:

Operating system (server): from Windows Server 2016

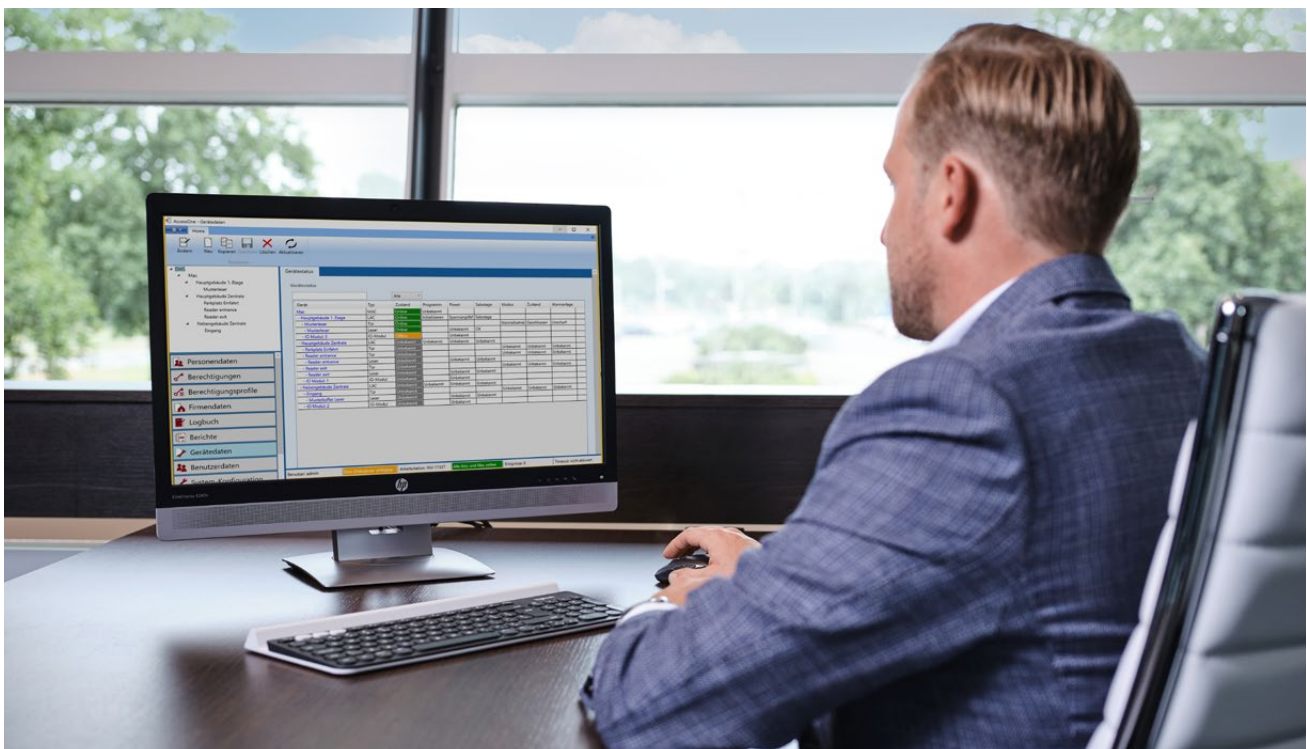
Operating system (PC): from Windows 10 Professional

RAM: min. 8GB

SQL Server: from MS SQL Server 2016. Express version can be used.

Hard disk: min. 1x 500GB. 2x 500GB recommended.

Network card



Ordering example, software

Article number	Designation	No. of media	No. of online readers	No. of offline devices	No. of work-stations
348100V	Full-version Basic license	1500	150	500	20



Software

Software	
Article number	Description/features
348100V	<p>AccessOne software, full version, Basic license for up to 200,000 users, 16,000 ID card readers and 2,000 authorisation profiles. The Basic license authorises the use of</p> <ul style="list-style-type: none"> - 50 ID card readers - 50 mechatronic offline locking devices - 1,000 locking media/ID cards - 2 software workstations.
348101V	<p>AccessOne software for SMEs. Identical scope of performance as for AccessOne, but tailored to suit SMEs. The license authorises the use of</p> <ul style="list-style-type: none"> - 25 online ID card readers - 25 mechatronic offline devices - 200 locking media/ID cards - 2 software workstations. <p>Package cannot be extended with function extensions.</p>
348102V	Upgrade from AccessOne-SME to AccessOne full version
348103V	<p>Update at version level Update an existing version to the latest version.</p>
SOFTWARE database extensions	
Article number	Description/features
348104V	<p>Addition of a further workstation to AccessOne. The max. quantity of workstation per system is 100.</p>
348105V	<p>Extension of AccessOne to enable it to administer 25 additional online readers. Per 25 online readers</p>
348106V	<p>Extension of AccessOne to enable it to administer of 100 additional locking media/ID cards per 100 media items</p>
348107V	<p>Extension of AccessOne to enable it to administer of 25 additional mechatronic offline locking devices per 25 locking device items</p>

SOFTWARE function extension	
Article number	Description/features
348121V	<p>Multi-Client function</p> <p>The client function is used for the logical assignment of defined parts of the system, such as doors and people, to different, independent clients. These clients can administer the system parts assigned to them independently, but have no influence on the system parts assigned to a different client. However, it is also possible for system parts such as entrance doors to be used by multiple clients.</p>
348122V	<p>Visitor administration</p> <p>Upgrades AccessOne to enable the user to sign in visitors in the system, and issue day passes of with restricted access rights. A web browser is used for logging on visitors.</p>
348123V	<p>Parking area management</p> <p>Upgrades AccessOne to enable the user to manage parking areas. A specific quantity of rented parking spaces “n” can be assigned to particular tenants, and the remaining parking spaces can be counted, but remain available for all other authorised users to use. Counting the number of parking spaces that are currently in use, with entry and exit readers, is mandatory for using this function.</p>
348124V	<p>Time registration</p> <p>Upgrades AccessOne to generate time recordings (who entered and left at what time) on either access readers and/or separate time recording readers, and then send these data to a higher-level time & attendance management system daily, in CSV format.</p>
348126V	<p>Third-party supplier administration</p> <p>Adds a module to AccessOne, which is used to administer the master data for staff from third-party suppliers without accessing the master data for the company’s own in-house staff. This module can be used to process craftsmen who are to work in a building and need materials and/or an ID card to do so. Special approvals or necessary instructions can be stored, with a validity period, and be checked. The member of staff from the third-party supplier confirms receipt of materials and confirmation of the documents given to them by signing on an electronic signature pad. This pad is not in the scope of delivery of this extension.</p>
348125V	<p>Server redundancy</p> <p>Adds a hot standby function to AccessOne.</p>
348120V	<p>ID card creation</p> <p>Upgrading of AccessOne to enable the user to create their own card layout, using a graphics editor. Includes barcode creation and coding function for 13.56 MHz RFID ID cards.</p>
Accessories Programming	
Article number	Description/features
345060	<p>Desktop-Writer</p> <p>CESentry version, for reading and writing to RFID media, programming of CESentry locking devices, LEGIC and MIFARE, with Bluetooth® Low Energy</p>

Central access controllers

AccessOne

All controllers are fully capable of operating autonomously in the event of network failure or loss of connection to the higher-level central access controller.

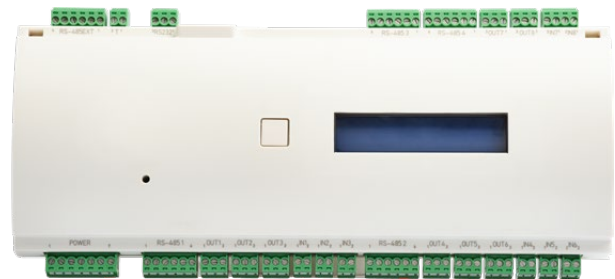


Figure: TSG8/Compact

Capacity

- Up to 200,000 locking media data records
- Up to 100,000 events
- Offline authorisation data calculated daily
- Up to 255 day models, accurate to the minute, with 3 time intervals
- 8 doors with up to 32 readers can be controlled
- 8 configurable NCC or NOC outputs (active, potential-free)
- 8 signal inputs, 4x analogue and 4x digital, for sensors or door contacts
- 5 x RS-485 interface to the readers and extension modules.
- Anti-tamper input for housing contact
- Replaceable 4 GB memory card
- Menu-driven operation via integrated display
- AES-128-encrypted data communication

Technical data

- Plastic housing for DIN rail mounting
- Temperature range -10°C to + 70°C
- 230x115x50 mm (LxWxH)
- Operating current 12 V to 24 V DC/2.4 VA
- Current consumption 200 mA at 12 V
- Protection type IP30

Access-Controllers	
Article number	Description/features
348007V	Central access controller for up to 8 doors with up to 32 readers on RS485 interfaces for DIN rail installation Type AccessOne TSG8/Compact

Central access controllers

AccessOne

All controllers are fully capable of operating autonomously in the event of network failure or loss of connection to the higher-level central access controller.



Figure: TSG1/SDC

Capacity

- Up to 200,000 locking media data records
- Up to 100,000 events
- Offline authorisation data calculated daily
- Up to 255 day models, accurate to the minute, with 3 time intervals
- 1 door with up to 4 readers or 2 doors with 2 readers on each one can be controlled
- 2 x RS-485 or Wiegand interface to the readers (configurable choice)
- 2 configurable NCC or NOC outputs (active, potential-free)
- 4 active or passive signal inputs for sensors or door contacts
- Anti-tamper input for housing contact
- Replaceable 4 GB memory card
- AES-128-encrypted data communication

Technical data

- Plastic housing for surface-mounting
- Temperature range -25°C to +60°C
- 116x116x62 mm (LxWxH)
- Operating current 12 V DC or PoE
- Current consumption 80 mA at 12 V
- Protection type IP30

Access-Controllers	
Article number	Description/features
348008V	Central access controller for up to 2 doors with up to 4 readers on RS485 interfaces For wall terminal wall mounting Type: AccessOne TSG1/SDC

Hardware extensions for AccessOne controllers

AMC2 8IO-EXT

Extension module for up to eight input contacts and eight output contacts for upgrading the TSG8/Compact controller. Combinable with AMC2 16IO-EXT

AMC2 16IO-EXT

Extension module with 16 entrance contacts and 16 exit contacts for upgrading the TSG8/Compact controller. Combinable with AMC2 8IO-EXT



Figure: 16-IO module

Technical data

- 16 (8) relay outputs – at ohm load:
- Max. switching voltage: 30V DC
- Max. switching current: 2A
- 16 (8) analogue inputs
- Anti-tampering contact
- Temperature: 0°C to +45°C
- Power supply: 10 to 30V DC, max. 60VA
- Protection type IP 30
- Max. dimensions, WxHxD (mm): 232x90x46
- Approximate weight 0.4 kg

Ordering example, controller and accessories

Article number	Designation	Quantity
348007V	Central access controller TSG8/Compact	10
348008V	Central access controller TSG1/SDC	5

Accessories and extensions for controllers

Accessories and extensions for controllers	
Article number	Description/features
348021V	<p>Input/output extension module for an additional 8 analogue inputs and 8 relay outputs for controlling complex tasks via the TSG8/Compact controller RS485 interface, 10 to 30 V DC, IP30 DIN rail assembly Type BOSCH AMC2-8IO-EXT</p>
348022V	<p>Input/output extension module for an additional 16 analogue inputs and 16 relay outputs for controlling complex tasks via the TSG8/Compact controller RS485 interface, 10 to 30 V DC, IP30 DIN rail assembly Type BOSCH AMC2-16IO-EXT</p>
348009V	<p>Single metal housing for use of 1 x TSG8/Compact 1 power supply unit and 1 battery for the UPS Lockable. For installation in the secure area. Type BOSCH AMC2 ENC UL1 Supplied without controller, battery or power supply unit.</p>
348010V	<p>Double metal housing for use of 2 x TSG8/Compact 1 power supply unit and 1 battery for the UPS Lockable. For installation in the secure area. Type BOSCH AMC2 ENC UL2 Supplied without controller, battery or power supply unit</p>
348011V	<p>Power supply unit with charging circuit suitable for TSG8/Compact For creating a UPS Output power level 60VA For DIN rail installation Type BOSCH PSU-60</p>
348012V	<p>Battery, 12V/7Ah For creating a UPS for TSG8/Compact in combination with BOSCH PSU-60</p>
348023V	<p>Power supply unit for TSG8/Compact access controller for DIN rail mounting Supplies voltage to the controller and the connected readers 110 to 230 V AC/12 V DC/7 A</p>
348024V	<p>Power supply unit for TSG1/SDC access controller for DIN rail mounting Supplies voltage to the controller and the connected readers 110 to 230 V AC/12 V DC/4.5 A</p>

Our readers with access and update function

All the readers connected to our controllers work simultaneously as access readers and as update readers for authorisations of offline locking devices.

All readers work with 13,56 MHz
MIFARE DESFire EV2 and LEGIC advant locking media



Wall terminal, CES design housing

Flush-mounted version



Wall terminal, CES design housing

Weather-resistant and surface-mounted versions



Datafox reader

Two-factor authentication



PHG Voxio reader

Two-factor authentication



PHG Voxio display reader

As a time registration and info terminal



RS-485 wireless module

Provides an online connection



FEIG UHF long-range reader

These long-range readers achieve reading ranges of up to 10 m from the passive UHF locking media



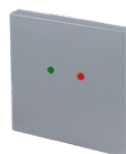
Gira switch series

Description:
WT-I integrated in GIRA Esprit Glass



Telecom Behnke Series 20 Shield with mounting frame

Description: WT-I in Telecom Behnke Series 20 Shield with mounting frame



Siedle Vario

Example: WT-I in BM-611, Silver metallic

Wall readers and wall terminals



Wall readers and wall terminals	
Article number	Description/features
WT-U-AO	<p>Wall terminal and updater wall terminal, compact design, LEGIC ID system and MIFARE ID system, as AccessOne reader with access- and update-function without housing, assembly only, for fitting on existing 60 mm in-wall switch box. Integrated LEDs for optical red/green signalling, integrated beeper for acoustic signalling</p>
EBWT-U	<p>CE Sentry wall terminal and updater wall terminal, compact design, LEGIC ID system and MIFARE ID system, as AccessOne reader with access- and update-function without housing, assembly only, for fitting on existing 60 mm in-wall switch box. Integrated LEDs for optical red/green signalling, integrated beeper for acoustic signalling</p>

Wall readers and wall terminals

Wall terminal housings	
Article number	Description/features
Standard	CES design housing Flush-mounting with metal frame including fixing screw Black or white
Standard for surface mounting	CES design housing Cover with metal frame including fixing screw and surface-mounted frame Weatherproof wall terminal version, IP55 Black or white
345001V	CES design housing as a spare part Cover with metallic frame incl. fixing screw Black or white
345120V	Mounting frame for CES wall terminals with design housing, for mounting wall terminals in back boxes including fixing screws
345103V	Fitting frame for CES wall terminals or readers in CES design housing for mounting on plain surfaces without existing wall switch boxes or to achieve weather resistance (IP55) of wall terminals

Ordering information			
Article number	Variant	Housing I (Outside)	Quantity
WT-I	/T	CES standard	

Wall readers and wall terminals



Door intercoms	
Article number	Description/features
Siedle Vario	WT in Siedle Vario housing, silver-metallic for WT (SM)
	Alternative Siedle finishes
	Dark grey-mica (DB703)
	White (RAL 9016)
	Anthracite grey (RAL 7016) or Basalt grey (RAL 7012) Grey aluminium (RAL 9007)
	For special colours, please specify RAL label and the colour
Article number	Benaming / uitvoering
Telecom- Behnke	WT in Telecom-Behnke „Series 20“ design
Light switch series	
Article number	Description/features
	GIRA: S55, shiny white, more colors on request
WT-G	GIRA: Surface switch series, pure white, gloss
	TX44, all GIRA colours
	Busch-Jäger: Futur Linear, Solo, Carat, Axcen Studio white, shiny
	Merten M: Polar white high gloss, other colors on request
	Jung AS500, Jung A594-0, CD500 alpine white

Switch series order information

Manufacturer	Programm (Series)	Article number and description	Manufacturer's colour name	Quantity
Jung	AS 500	A594-0- WW, Dummy shield	Alpine white	2
Busch Jäger				
Merten				

PHG Voxio and Datafox reader



PHG Voxio and Datafox reader with access and update function	
Article number	Description/features
348004V	LEGIC and MIFARE Multi-RFID-System reader with PIN code keyboard With RS485 interface to the host Protection type IP54, suitable for direct installation outdoors Type PHG Voxio Touch surface-mounted
348005V	LEGIC and MIFARE Multi-RFID-System reader with PIN code keyboard With RS485 interface to the host Protection type IP54, suitable for direct installation outdoors Type PHG Voxio Touch flush-mounted
348503V	LEGIC and MIFARE Multi-RFID-System reader with PIN code keyboard With RS485 interface to the host Version in Telecom Behnke Series 50 design
348006V	LEGIC and MIFARE Multi-RFID-System reader with display and PIN code keyboard For use as time data capture reader. With RS485 interface to the host Protection type IP65, suitable for the direct installation outdoors Type PHG Voxio Touch-Display flush-mounted
348017V	LEGIC and MIFARE Multi-RFID-System reader with display and PIN code keyboard For use as time data capture reader. With RS485 interface to the host Protection type IP65, suitable for the direct installation outdoors Type PHG Voxio Touch-Display surface-mounted
348032V	Surface-mounted frame EVO including mounting material Finish: Anthracite
348033V	LEGIC and MIFARE Multi-RFID-System reader with PIN code keyboard With RS485 interface to the host Protection type IP65, suitable for direct installation outdoors Typ Datafox EVO Intera II

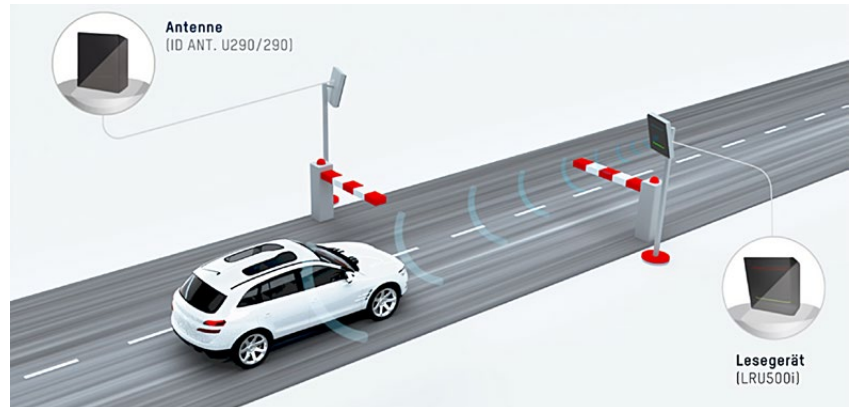
Special readers

Vehicle recognition with FEIG UHF long-range readers

These long-range readers achieve reading ranges of up to 10 m from the passive UHF locking media, with adhesive pads, which can be attached directly to the windscreen on the inside of the vehicle.

The readers are connected directly to the controller via the RS-485 connection.

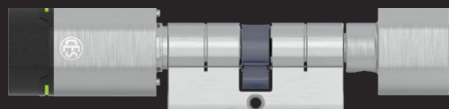
An additional antenna can be used to monitor a second vehicle lane as well.



Special readers	
Article number	Description/features
348015V	<p>UHF long-range reader for vehicle access control</p> <p>With RS485 interface for direct connection to the access controller. Red/green/blue visual display Anti-collision Weatherproof plastic case IP65 (290 × 290 × 100 mm) Operating voltage 12-24V DC/16W Type Feig LRU500i</p>
348016V	<p>VESA100 mast and wall-mounting set</p> <p>Pipe diameter 1 inches to 3 inches (approx. 2.5 cm to 7.6 cm) Suitable for LRU500i long-range reader</p>
348014V	<p>24V power supply for LRU500i long-range reader.</p> <p>Different plugs are available (EU, GB, US) but not included.</p>
348028V	<p>Power cord for 24V power supply (348014V)</p>
348018V	<p>UHF locking medium, encrypted, self-adhesive</p> <p>Passive UHF locking medium for secure vehicle access control applications. self-adhesive, for attaching directly to the windscreen on the inside of the vehicle, for example Coded with unique sequential number incl. print of unique number Size: 80 mm x 25.4 mm x 0.3 mm Packing unit 10 pieces</p>
348019V	<p>External antenna for adding a vehicle lane/access road</p> <p>Robust circular UHF long-range antenna 65° For connecting to stationary UHF readers Connection: TNC socket Frequency range: 865 - 868 MHz</p>
348020V	<p>Cable for connecting the separate antenna to the long-range reader</p> <p>R-TNC/TNC UHF antenna cable H155 coaxial cable for UHF antennas with TNC socket and UHF readers with R-TNC connection Connection type: R-TNC plug/TNC plug Length: approx. 6 m</p>

Electronic cylinders

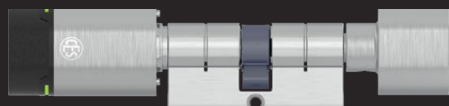
MIFARE or LEGIC ID system



EB815

Double knob cylinder

- For single-side identification with electronic locking media
- Optical red/green display
- Acoustic indications via integral beeper
- Locking on outer side using authorised locking medium only, permanently locking on inner side by means of mechanical knob
- Fire-resistant design, suitable for use on fire doors up to T120
- Basic length: 30.5 mm / 30.5 mm (knob/locking side)
- Finish: stainless steel, black
- Supplied with battery for operation and special fixing screw

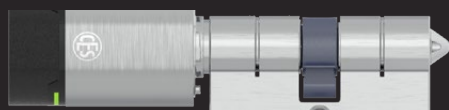


EB815/AP

Double-knob anti-panic cylinder

Product description as for EB815, but differing as follows:

- Integrated anti-panic module for automatic resetting of the locking cam
- Defined locking cam position.
(This electronic cylinder may only be used in locks for which approval for the electronic cylinder is provided)
- Basic length: 30.5 mm / 30.5 mm (knob/locking side)

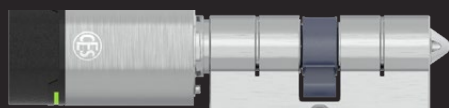


EB802

Dummy cylinder

Product description as for EB815, but differing as follows:

- Inner side blank, without function or with profile insert

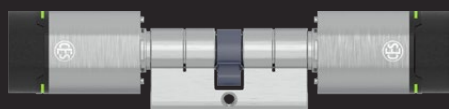


EB802/AP

Anti-panic dummy cylinder

Product description as for EB815/AP, but differing as follows:

- Inner side blank, without function or with profile insert



EB8710

Dual cylinder

Product description as for EB815, but differing as follows:

- For identification on both sides with electronic locking media
- Locking on both outer and inner sides using authorised locking medium only
- Independent authorisation control on both sides

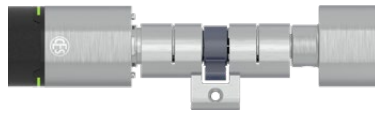


EB851

Half cylinder

Product description as for EB815, but differing as follows:

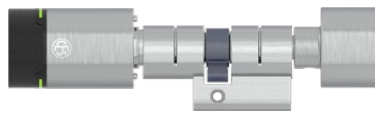
- Half cylinder with electronic knob on outer side
- Locking on outer side using authorised locking medium only
- Basic length: 30.5 mm (locking side)



Double knob cylinder

- Swiss profile
- For single-side identification with electronic locking media
- Optical red/green display
- Acoustic indications via integral beeper
- Locking on outer side using authorised locking medium only, permanently locking on inner side by means of mechanical knob
- Basic length: 30.5 mm / 30.5 mm (knob/locking side)
- Finish: stainless steel, black
- Supplied with battery for operation and special fixing screw

EB615

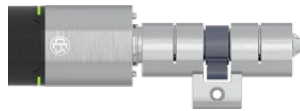


Double-knob anti-panic cylinder

Product description as for EB615, but differing as follows:

- Integrated anti-panic module for automatic resetting of the locking cam
- Defined locking cam position
(This electronic cylinder may only be used in locks for which approval for the electronic cylinder is provided)

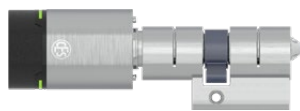
EB615/AP



Dummy cylinder

Product description as for EB615, but differing as follows:
Inner side blank, without function or with profile insert

EB602



Anti-panic dummy cylinder

Product description as for EB615, but differing as follows:

- Inner side blank, without function or with profile insert

EB602/AP



Dual cylinder

Product description as for EB615, but differing as follows:

- For identification on both sides with electronic locking media
- Locking on both outer and inner sides using authorised locking medium only
- Independent authorisation control on both sides

EB6710



Half cylinder

Product description as for EB615, but differing as follows:

- Half cylinder with electronic knob on outer side
- Locking on outer side using authorised locking medium only
- Basic length: 30.5 mm (locking side)

EB651



Scandi rim cylinder

- Oval cylinder, Scandinavian design
- For identification with electronic locking media
- Optical red/green display
- Acoustic indications via integral beeper
- Locking on outer side using authorised locking medium only
- Basic length: 30.5 mm (locking side)
- Finish: stainless steel
- Supplied with battery for operation

EB5746



Scandi rim cylinder

Product description as for EB5746, but differing as follows:

- Round cylinder \varnothing 39,5 mm

EB5999



Padlock

- For identification with electronic locking media
- With comfort function
- Optical red/green display
- Acoustic indications via integral beeper
- Locking on outer side using authorised locking medium only
- Supplied with battery for operation

EB215



Cam cylinder

- For identification with electronic locking media
- Optical red/green display
- Acoustic indications via integral beeper
- Locking on outer side using authorised locking medium only
- 90° swivel range
- Finish: stainless steel, black
- Supplied with battery for operation

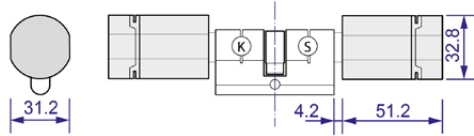
EB5558



Round cylinder

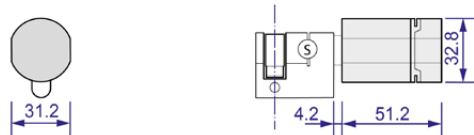
- For identification with electronic locking media
- Optical red/green display
- Acoustic indications via integral beeper
- Locking on outer side using authorised locking medium only
- Finish: stainless steel, black
- Supplied with battery for operation

EB30



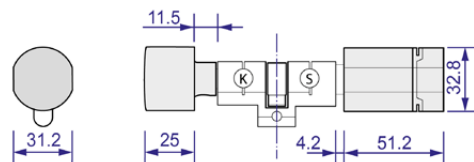
Double cylinder extensions

Double cylinder														
Innenseite (K) / Maße in mm							Outside (S) / dimensions in mm							
90,5	...	65,5	...	40,5	35,5	30,5	30,5	35,5	40,5	...	65,5	...	90,5	
Maximum axial dimension 90.5 mm, extension in 5 mm steps							Maximum axial dimension 90.5 mm, extension in 5 mm steps							



Single cylinder extensions

Single cylinder														
							Outside (S) / dimensions in mm							
							30,5	35,5	40,5	...	65,5	...	90,5	
							Maximum axial dimension 90.5 mm, extension in 5 mm steps							



Double cylinder extensions - Swiss profile

Double cylinder														
Inside (K) / dimensions in mm							Outside (S) / dimensions in mm							
90,5	...	65,5	...	40,5	35,5	30,5	30,5	35,5	40,5	...	65,5	...	90,5	
Maximum axial dimension 90.5 mm, extension in 5 mm steps							Maximum axial dimension 90.5 mm, extension in 5 mm steps							

Ordering example for electronic cylinder						
Article number	Length (K) inside	Length (S) outside	Housing finish	Reader finish	Knob shape	Event storage
EB815	30,5	40,5	MPCR	O,W	CT	MITE, OERS



Electronic cylinders



Electronic cylinders	
Article number	Description/features
EB815	Electronic double knob cylinder CESentry version, reading on one side, EURO profile, ID technology LEGIC advant / MIFARE DESFire, with Bluetooth® Low Energy
EB851	Electronic half cylinder CESentry version, reading on external side only, EURO profile, ID technology LEGIC advant / MIFARE DESFire, with Bluetooth® Low Energy
EB8710	Electronic dual cylinder CESentry version, reading on both sides, EURO profile, ID technology LEGIC advant / MIFARE DESFire, with Bluetooth® Low Energy
EB802	Electronic dummy cylinder CESentry version, reading on one side, with dummy side, EURO profile, ID technology LEGIC advant / MIFARE DESFire, with Bluetooth® Low Energy
EB810	Electronic hybrid cylinder CESentry version, reading on one side, with mechanical locking side EURO profile, ID technology LEGIC advant / MIFARE DESFire, with Bluetooth® Low Energy

For special versions see page 54

For length table see page 56

For knob shapes see page 58

For special finishes see page 57

Electronic anti-panic cylinder



Electronic anti-panic cylinder	
Article number	Description/features
EB815/AP	Electronic anti-panic cylinder CESentry version, reading on one side, anti-panic features, EURO profile, ID technology LEGIC advant / MIFARE DESFire, with Bluetooth® Low Energy
EB802/AP	Electronic anti-panic dummy cylinder CESentry version, reading on one side, with dummy side, anti-panic features, EURO profile, ID technology LEGIC advant / MIFARE DESFire, with Bluetooth® Low Energy

For special versions see page 54

For length table see page 56

For knob shapes see page 58

For special finishes see page 57



Electronic cylinders



Electronic cylinders	
Article number	Description/features
EB915	Electronic double knob cylinder CESentry version, variant VdS BZ+, reading on one side, EURO profile, ID technology LEGIC advant / MIFARE DESFire, with Bluetooth® Low Energy
EB951	Electronic half cylinder CESentry version, variant VdS BZ+, reading on external side only, EURO profile, ID technology LEGIC advant / MIFARE DESFire, with Bluetooth® Low Energy
EB9710	Electronic dual cylinder CESentry version, variant VdS BZ+, reading on both sides, EURO profile, ID technology LEGIC advant / MIFARE DESFire, with Bluetooth® Low Energy
EB902	Electronic dummy cylinder CESentry version, variant VdS BZ+, reading on one side, with dummy side, EURO profile, ID technology LEGIC advant / MIFARE DESFire, with Bluetooth® Low Energy
EB910	Electronic hybrid cylinder CESentry version, variant VdS BZ+, reading on one side, with mechanical locking side EURO profile, ID technology LEGIC advant / MIFARE DESFire, with Bluetooth® Low Energy

For special versions see page 54

For length table see page 56

For knob shapes see page 58

For special finishes see page 57

Electronic anti-panic cylinder



Electronic anti-panic cylinder	
Article number	Description/features
EB915/AP	Electronic anti-panic cylinder CESentry version, variant VdS BZ+, reading on one side, anti-panic features, EURO profile, ID technology LEGIC advant / MIFARE DESFire, with Bluetooth® Low Energy
EB902/AP	Electronic anti-panic dummy cylinder CESentry version, variant VdS BZ+, reading on one side, with dummy side, anti-panic features, EURO profile, ID technology LEGIC advant / MIFARE DESFire, with Bluetooth® Low Energy

For special versions see page 54
For length table see page 56
For knob shapes see page 58
For special finishes see page 57



Electronic cylinder, Swiss profile



Electronic cylinders	
Article number	Description/features
EB615	Electronic double knob cylinder CESentry version, reading on one side, Swiss profile, ID technology LEGIC advant / MIFARE DESFire, with Bluetooth® Low Energy
EB651	Electronic half cylinder CESentry version, reading on external side only, Swiss profile, ID technology LEGIC advant / MIFARE DESFire, with Bluetooth® Low Energy
EB6710	Electronic dual cylinder CESentry version, reading on both sides, Swiss profile, ID technology LEGIC advant / MIFARE DESFire, with Bluetooth® Low Energy
EB602	Electronic dummy cylinder CESentry version, reading on one side, with dummy side, Swiss profile, ID technology LEGIC advant / MIFARE DESFire, with Bluetooth® Low Energy
EB610	Electronic hybrid cylinder CESentry version, reading on one side, with mechanical locking side Swiss profile, ID technology LEGIC advant / MIFARE DESFire, with Bluetooth® Low Energy

For special versions see page 54

For length table see page 56

For knob shapes see page 58

For special finishes see page 57

Electronic anti-panic cylinder



Electronic anti-panic cylinder	
Article number	Description/features
EB615/AP	Electronic anti-panic cylinder CESentry version, reading on one side, anti-panic features, Swiss profile, ID technology LEGIC advant / MIFARE DESFire, with Bluetooth® Low Energy
EB602/AP	Electronic anti-panic dummy cylinder CESentry version, reading on one side, with dummy side, anti-panic features, Swiss profile, ID technology LEGIC advant / MIFARE DESFire, with Bluetooth® Low Energy

For special versions see page 54
For length table see page 56
For knob shapes see page 58
For special finishes see page 57



Electronic Scandi cylinders



Electronic Scandi cylinders	
Article number	Description/features
EB5746	Electronic Scandi rim cylinder CESentry version, oval cylinder, Scandinavian design, ID technology LEGIC advant / MIFARE DESFire, with Bluetooth® Low Energy
EB5746/31	Electronic Scandi internal cylinder CESentry version, oval cylinder, Scandinavian design, ID technology LEGIC advant / MIFARE DESFire, with Bluetooth® Low Energy
EB5999	Electronic Scandi rim cylinder CESentry version, round cylinder, Scandinavian design, ID technology LEGIC advant / MIFARE DESFire, with Bluetooth® Low Energy
EB5999/31	Electronic Scandi internal cylinder CESentry version, round cylinder, Scandinavian design, ID technology LEGIC advant / MIFARE DESFire, with Bluetooth® Low Energy
EB6263	Electronic padlock insert CESentry version, snowman design, ID technology LEGIC advant / MIFARE DESFire, with Bluetooth® Low Energy

For knob shapes see page 58

For special finishes see page 57

Electronic padlock



Electronic padlock	
Article number	Description/features
EB215	Electronic padlock CESentry version, with comfort function, ID technology LEGIC advant / MIFARE DESFire, with Bluetooth® Low Energy

Electronic cam cylinder



Electronic cam cylinder	
Article number	Description/features
EB558	Electronic cam cylinder CESentry version, 90° swivel range, lever available in various versions ID technology LEGIC advant / MIFARE DESFire, with Bluetooth® Low Energy

For special finishes see page 57



Electronic round cylinders



Electronic round cylinders	
Article number	Description/features
EB27	Electronic rim cylinder CESentry version, for case locks, ID technology LEGIC advant / MIFARE DESFire, with Bluetooth® Low Energy
EB30	Electronic rim cylinder CESentry version, ID technology LEGIC advant / MIFARE DESFire, with Bluetooth® Low Energy

For special finishes see page 57

Electronic handle sets

Narrow shield



Narrow shield, stainless steel and black

CE Sentry EB11xx

- 13.56 MHz multi-ID system, LEGIC and MIFARE
- Compatible with OSS-SO standard
- Bluetooth® Low Energy
- Narrow shield version
- Weatherproof version IP54, suitable for use on external doors
- Fire-resistant design, suitable for use on fire doors up to T120
- Suitable for use on doors compliant with EN 179
- Stainless steel on outside/inside, with L-shape lever handle (standard version FSB1076) both sides
- Programmable via Desktop-Writer

Order example: EB11xx

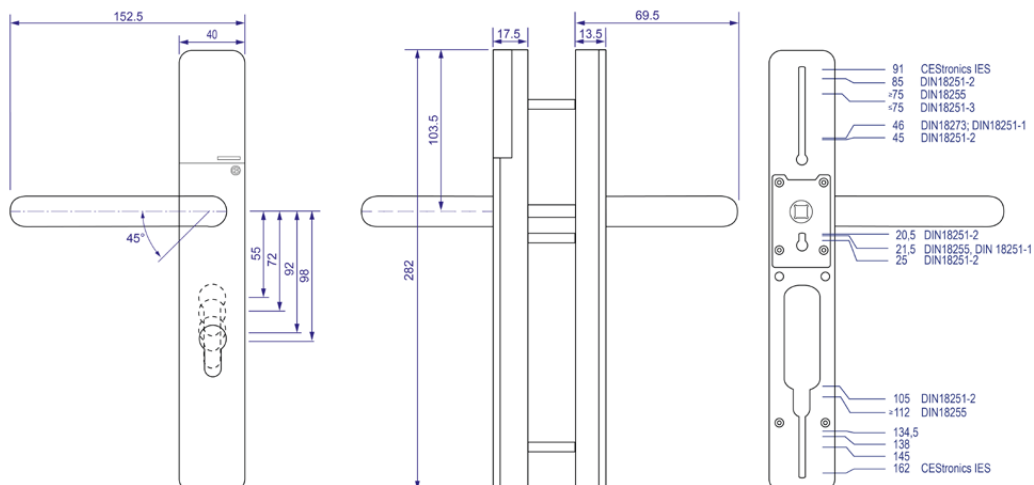
Article number	HO Lever handle type outside	HI* Lever handle type inside	HD** Lever handle position	C Optional handle set finish	T Door thickness	CH Cylinder hole pattern	D Distance	SP Four square	ERSP Event storage	PTo Protection Type outside	PTi*** Protection Type inside
	See lever handle shapes	See lever handle shapes	L, R	0, B	35...184	PB, PO, PI	55...98	7...10	MITE, OERS	WR / FR	WR / FR
EB1120	FSB1070	FSB1070	L	0	55	PB	92	8	MITE	WR	FR

* Only for complementary long shield

** The lever handle position can be changed without special tools

*** Only for dual shield

L = Left, R = Right, 0 = Standard (Stainless steel), B = Black, PB = Cylinder hole both sides, PO = Cylinder hole outside, PI = Cylinder hole inside, MITE = With event storage, OERS = Without event storage, WR = Water resistant, FR = Fire resistant



Electronic long shield handles



Electronic long shield handles	
Article number	Description/features
EB1110	Electronic long shield CESentry version, narrow shield on access and reverse sides, EURO design, ID technology LEGIC advant / MIFARE DESFire, with Bluetooth® Low Energy
EB1100	Electronic long shield CESentry version, narrow shield, access side only, for use on interior doors, EURO design, ID technology LEGIC advant / MIFARE DESFire, with Bluetooth® Low Energy
EB1120	Electronic long shield CESentry version, narrow shield on access side, wide shield on reverse side, EURO design, ID technology LEGIC advant / MIFARE DESFire, with Bluetooth® Low Energy
EB1130	Electronic long shield CESentry version, dual access control on both sides, narrow shield, EURO design, ID technology LEGIC advant / MIFARE DESFire, with Bluetooth® Low Energy
-WR	Weather-resistant version according to IP54

For lever handle shapes see page 56

For special finishes see page 57

Electronic long shield handles



Electronic long shield handles	
Article number	Description/features
EB1150	Mechanical long shield one side fitting, mechanical narrow shield, reverse side only, for use on interior doors, EURO design
EB1160	Complementary long shield, mechanical narrow shield on both sides, EURO design
EB1170	Electronic long shield CESentry version, narrow shield on access and reverse sides, EURO design, burglar-resistant to SKG3/ES2, ID technology LEGIC advant / MIFARE DESFire, with Bluetooth® Low Energy
EB1180	Electronic long shield CESentry version, narrow shield on access side, wide shield on reverse side, EURO design, burglar-resistant to SKG3/ES2, ID technology LEGIC advant / MIFARE DESFire, with Bluetooth® Low Energy

For lever handle shapes see page 56

For special finishes see page 57



Electronic handle sets

Wide shield



Wide shield, stainless steel and black

CE Sentry EB12xx

- 13.56 MHz multi-ID system, LEGIC and MIFARE
- Compatible with OSS-SO standard
- Bluetooth® Low Energy
- Wide shield version
- Weatherproof version IP54, suitable for use on external doors
- Fire-resistant design, suitable for use on fire doors up to T120
- Suitable for use on doors compliant with EN 179
- Stainless steel on outside/inside, with L-shape lever handle (standard version FSB1076) both sides
- Programmable via Desktop-Writer

Order example: EB12xx

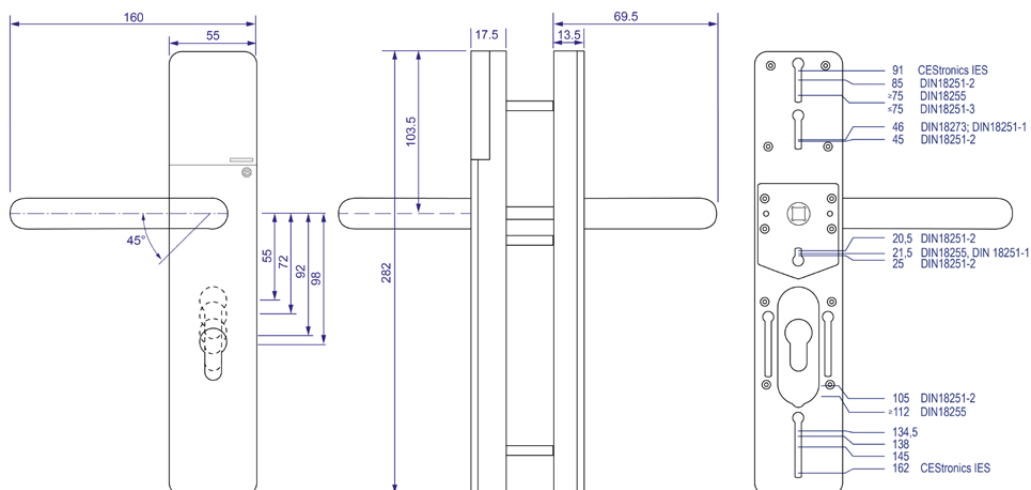
Article number	HO Lever handle type outside	HI* Lever handle type inside	HD** Lever handle position	C Optional handle set finish	T Door thickness	CH Cylinder hole pattern	D Distance	SP Four square	ERSP Event storage	PTo Protection Type outside	PTi*** Protection Type inside
	See lever handle shapes	See lever handle shapes	L, R	0, B	35...184	PB, PO, PI	55...98	7...10	MITE, OERS	WR / FR	WR / FR
EB1120	FSB1070	FSB1070	L	0	55	PB	92	8	MITE	WR	FR

* Only for complementary long shield

** The lever handle position can be changed without special tools

*** Only for dual shield

L = Left, R = Right, 0 = Standard (Stainless steel), B = Black, PB = Cylinder hole both sides, PO = Cylinder hole outside, PI = Cylinder hole inside, MITE = With event storage, OERS = Without event storage, WR = Water resistant, FR = Fire resistant



Electronic long shield handles



Electronic long shield handles	
Article number	Description/features
EB1220	Electronic long shield CESentry version, wide shield on access and reverse sides, EURO design, ID technology LEGIC advant / MIFARE DESFire, with Bluetooth® Low Energy
EB1200	Electronic long shield CESentry version, Wide shield, access side only, for use on interior doors, EURO design, ID technology LEGIC advant / MIFARE DESFire, with Bluetooth® Low Energy
EB1210	Electronic long shield CESentry version, wide shield on access side, narrow shield on reverse side, EURO design, ID technology LEGIC advant / MIFARE DESFire, with Bluetooth® Low Energy
EB1230	Electronic long shield CESentry version, dual access control on both sides, wide shield, EURO design, ID technology LEGIC advant / MIFARE DESFire, with Bluetooth® Low Energy
-WR	Weather-resistant version according to IP54

For lever handle shapes see page 56

For special finishes see page 57



Electronic long shield handles



Electronic long shield handles	
Article number	Description/features
EB1250	Mechanical long shield one side fitting, mechanical wide shield, reverse side only, for use on interior doors, EURO design
EB1260	Complementary long shield, mechanical wide shield on both sides, EURO design
EB1270	Electronic long shield CESentry version, wide shield on access and reverse sides, EURO design, burglar-resistant to SKG3/ES2, ID technology LEGIC advant / MIFARE DESFire, with Bluetooth® Low Energy
EB1280	Electronic long shield CESentry version, wide shield on access side, narrow shield on reverse side, EURO design, burglar-resistant to SKG3/ES2, ID technology LEGIC advant / MIFARE DESFire, with Bluetooth® Low Energy

Electronic handle sets

Compact-Shield



CE Sentry EB32xx

- Multi-ID-System 13,56 MHz, LEGIC and MIFARE
- Bluetooth® Low Energy
- Programmable via Desktop-Writer
- Suitable for use on internal doors
- Stainless steel on outside/inside, with L-shape lever
- handle (standard version FSB1076) both sides

Compact-Shield stainless steel and black

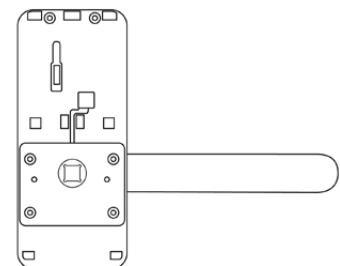
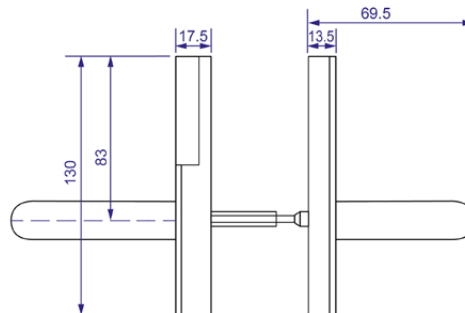
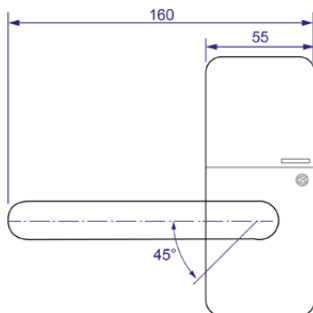
Order example: EB32xx

Article number	HO Lever handle type outside	HI* Lever handle type inside	HD** Lever handle position	CR Optional reader finish	C Optional handle set finish	T Door thickness	SP four square	ERSP event storage
	See lever handle shapes	See lever handle shapes	L, R	0, W	0, B	35...184	7...10	MITE, OERS
EB3220	FSB1070	FSB1070	L	0	B	55	8	MITE

* Only for complementary long shield

** The lever handle position can be changed without special tools

L = Left, R = Right, 0 = Standard (Stainless steel), B = Black, PB = Cylinder hole both sides, PO = Cylinder hole outside, PI = Cylinder hole inside, MITE = With event storage, OERS = Without event storage



Compact electronic handle sets



Compact electronic handle sets	
Article number	Description/features
EB3220	Electronic compact shield CESentry version, access and reverse sides, for use on interior doors, ID technology LEGIC advant / MIFARE DESFire, with Bluetooth® Low Energy
EB3200	Electronic compact shield CESentry version, access side only, for use on interior doors, ID technology LEGIC advant / MIFARE DESFire, with Bluetooth® Low Energy
EB3230	Electronic compact shield CESentry version, dual access control on both sides, for use on interior doors, ID technology LEGIC advant / MIFARE DESFire, with Bluetooth® Low Energy
EB3250	Mechanical compact shield one side fitting mechanical reverse side only, for use on interior doors
EB3260	Complementary compact shield mechanical on both sides, for use on interior doors
EB3290	Electronic cylinder rosette both sides, prepared for Euro profile cylinders

For lever handle shapes see page 56

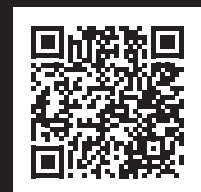
For special finishes see page 57

CES OMEGA FLEX handle sets and cylinders

CES OMEGA FLEX devices while stocks last.

More information in the CES OMEGA FLEX price list.

www.ces.eu/cesomegaflex-pricelist.html



Electronic furniture lock F4180

This electronic furniture lock replaces normal cam cylinder locks on office cupboards, lockers and drawers, and is easy to retrofit.

In addition to access control on doors, this furniture lock now also provides a way to organise and control access to clothing, valuables and hazardous materials.

Three operating modes are possible and can be configured:

All Open

All authorised locking media can open or close.

One Open (default setting)

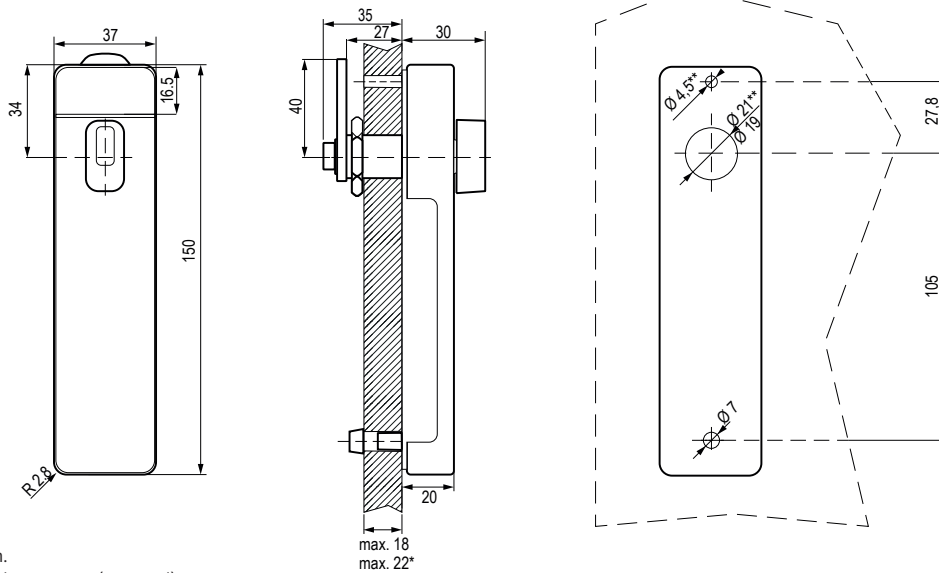
A cabinet can be locked with every authorised locking medium. It can only be opened with the same locking medium.

One Open Plus

A cabinet can be locked with every authorised locking medium. It can only be opened with the same locking medium. A medium can only lock one cabinet. The locking or reservation time can be predefined. When it expires, the “locking medium” loses its authorisation to unlock. Then the cabinet can only be opened by a master medium.



Possible installation positions



All dimensions in mm.

* When combined with step nuts (optional)

** If used with espagnolette lock

Ordering example, furniture lock						
Article number	LEGIC and MIFARE multi-ID system	V Variant /T, /NET	Type/Version Lever/square spindle	ERSP event memory Yes/No	Lever version	CS Handle set finish B, W
F4180		/T	Lever	Yes/No	Standard	B

Electronic furniture lock F4180

Electronic furniture lock F4180	
Article number	Description/features
F4180	Electronic furniture lock prepared for cabinet cylinder mounting Multi-ID System LEGIC und MIFARE for vertical or horizontal mounting Direction of rotation left or right Programming via master media or RF stick suitable for furniture or locker doors Coloring black individual numbering field incl. battery-pack
/T	With real-time clock, automatic DST, time and event recording for up to 2,000 events. Compatible with OSS-SO Standard 1.1
348025V	RS485 wireless module for online connection of OMEGA FLEX locking devices with central access controllers of type AccessOne TSG1/SDC or TSG8/Compact
248583V	SMA whip antenna for wireless modules URC-RS485
Lever options	
	Special lever
DSVS	prepared for espagnolette locks
Optional door thicknesses	
345205V	Set of 10 x step nut, 18-22 mm
345206V	Set of 10 x step nut adapter washer, 18-22 mm
Optional colours	
B	Black RAL 9005
W	White RAL 9003
Optional accessories	
345210V	Set of 5 x battery pack
345204V	Screwdriver set T6 and T8
345209V	Battery-change tool
345211V	Drilling template (hardened steel)
345207V	Set of 10 x cover set, black
345208V	Set of 10 x cover set, white
345212V	Button set, angular

Electronic furniture lock F4180

Optional accessories	
Article number	Description/features
345213V	Numbering: sequential number applied on small labelling plates by laser engraving, per item
345214V	Numbering and customer logo applied on small labelling plates by laser engraving, per item Customer logo must be provided in a scalable file (.ai or .eps)
345215V	User name laser engraving applied on small labelling plates per item. The user name must be provided in a scalable file (.ai or .eps)
345216V	Initial setup costs for customer logo or user name
345217V	Repeat setup costs for customer logo or user name

Stand-Alone offline wall terminals



Stand-Alone offline wall terminals	
Article number	Description/features
EBWT-I	Wall terminal CESentry version, compact design, without housing, for mounting on existing 60 mm switch boxes, ID technology LEGIC advant / MIFARE DESFire, with Bluetooth® Low Energy
EBWT-II	Wall terminal CESentry version, consisting of reader and controller, for security applications, reading on external side, without housing, for mounting on existing 60 mm switch boxes ID technology LEGIC advant / MIFARE DESFire, with Bluetooth® Low Energy
342196V	Reader for WT-II Multi-ID system LEGIC and MIFARE, without housing, assembly only, for fitting on existing 60 mm in-wall switch box. Integrated LEDs for optical red/green signalling, integrated beeper for acoustic signalling
/T	With real-time clock, automatic DST, time and event recording for up to 2,000 events. Compatible with OSS-SO Standard 1.1
Wall terminal housings	
Variants	Description/features
Standard flush-mounted	CES design housing Cover with metal frame including fixing screw Flush-mount version Black or white
Standard surface-mounted	CES design housing Cover with metal frame including fixing screw and surface-mount frame Weatherproof surface-mount version, IP55 Black or white
Options	
Variants	Description/features
247724V	Power supply unit for WT wall terminals Power supply unit for top hat rail assembly in secured spaces 230V AC / 12 V DC (max. 800 mA) Suitable for connection to additional consumers (e.g. electric strike) Finish: Light grey

Locking media

CESentry is compatible to LEGIC and MIFARE 13,56 MHz-RFID-Systems.

In addition to a smartphone, RFID media can also be used as an access medium.

- CES electronic key (in combination with mechanical locking systems)
- ID card in ISO format
- Key fob



Electronic key



ID card in ISO format



Key fob



SlimLine Key fob

Media
13.56 MHz / 868 MHz transponder media



Electronic-Keys	
Article number	Description/features
ESL-C	<p>OMEGA LEGIC key solid black, LEGIC ATC 4096 transponder, for all available CES locking systems, with serial number for identification</p> <p>supplied with new locking system</p> <p>supplied as spare or replacement key</p>
ESM-C	<p>CES Electronic key MIFARE DESFire Monochrome black, transponder: EV2 8k for all available CES locking systems, including serial number for identification</p> <p>Supplied with the new system</p> <p>Supplied as replacement key</p>
342558V	<p>CES electronic locking medium clip Mifare Classic 4k ID technology Selection of colour When delivered: not mounted, to be clipped onto existing CES keys with a round key head. 1 PU = 5 pieces</p>
342559V	<p>CES electronic MIFARE DESFire locking medium clip EV2 8k Selectie kleur</p> <p>Leveringsstatus: ongemonteerd, om vast te klikken op bestaande CES-sleutel met ronde sleutelkop incl. marking with sequential numbering, 1 PU = 5 pieces</p>
342560V	<p>CES electronic locking medium clip LEGIC prime MIM 1024 ID technology Selection of colour When delivered: not mounted, to be clipped onto existing CES keys with a round key head. 1 PU = 5 pieces</p>
342561V	<p>CES electronic locking medium clip LEGIC advant ATC 4096 ID technology Selection of colour When delivered: not mounted, to be clipped onto existing CES keys with a round key head. 1 PU = 5 pieces</p>

Media

13.56 MHz / 868 MHz transponder media



Electronic-Keys	
Article number	Description/features
Surcharge for labelling	
345900V	Emergency-Key CES key fob for unlimited permanent unlocking in an emergency, ID technology MIFARE DESFire
345901V	Emergency-Key CES key for unlimited permanent unlocking in an emergency, ID technology MIFARE DESFire
345902V	Emergency-Key CES electronic locking medium clip for unlimited permanent unlocking in an emergency, ID technology MIFARE DESFire

Media

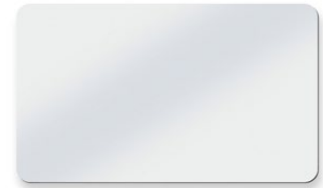
13.56 MHz / 868 MHz transponder media



Electronic-Keys	
Article number	Description/features
Surcharge for labelling	
342580V	Premium LEGIC advant key fob ATC4096-MP311 choice of colours, with stainless steel shackle, incl. marking with sequential numbering, 1 PU = 5 pieces
342541V	Premium key fob MIFARE DESFire EV2 with stainless steel shackle Transponder: DESFire EV2 8k including serial number for identification 1 PU = 5 pieces Colours: Black, red, green, blue yellow and white
342540V	SlimLine key fob DESFire EV2 Transponder: DESFire EV2 8k including serial number for identification 1 PU = 10 pieces Colours: Black, red, green, blue yellow and white
342356V	LEGIC advant key fob ATC4096-MP311 selection of colours, incl. marking with sequential numbering, 1 PU = 10 pieces
342505V	Hybrid key fob DESFire EV2 and EM4200, Premium Line Minimum order quantity = 50 pieces 1 PU = 10 pieces
342545V	DESFire ID card neutral white, incl. marking with sequential numbering, 1 PU = 10 pieces

Media

13.56 MHz / 868 MHz transponder media



Electronic-Keys	
Article number	Description/features
342237V	LEGIC advant ID card ATC4096-MP transponder version neutral white, incl. marking with sequential numbering, 1 PU = 10 pieces
342545V	DESFire EV2 8k version 1 PU = 10 pcs.
348018V	UHF locking medium, encrypted Passive UHF locking medium for secure vehicle access control applications. Self-adhesive, for attaching directly to the windscreen on the inside of the vehicle, for example Coded with unique consecutive number Imprinted with unique consecutive number Size: 80 mm x 25.4 mm x 0.3 mm Packing unit 10 pieces
	Options:
	Coding of locking media Application to OSS segment per locking medium / badge
	Coding of locking media in accordance with customer instructions.
	Card with additional HICO or LOCO magnetic stripe
	Card with additional bar code
	Card in combination with different transponder systems
	We shall gladly offer customized printing of your ID cards.
	Compatible ID card creation system consisting of printer with encoder, web cam and accessories Only to be used with software extension "348120V ID Card Creation"

Services

Services	
Article number	Description/features
D001	Electronic locking plan Generation of the electronic locking plan and the customer database including access authorization times at the Velbert plant. All relevant data must be supplied by the customer in a table.
D002	Device programming Programming of the electronic devices at the Velbert plant based on the user specifications. Per locking device
D003	Media programming Programming of the electronic media (card, key, key fob) at the Velbert plant based on the user specifications Per key/medium
D011	Special numbering of locking media Laser identification based on the customers specification and prior feasibility study, customer data must be available as graphics file or in tabular format, depending on the application. Per locking medium
D101	User Training/system instruction Instruction of users in the use of the software at the customer's system, on a PC supplied by the customer in line with the AccessOne system requirements. Creation of the locking data for about 5 users based on written specifications by the customer. The specifications must be available in a table at the time of training. Max. 3 persons, 1 day, incl. travelling expenses
D102	Admin training course/instruction in system use Instruction of users in handling the software on the company system, on a PC provided for use by the customer in accordance with the system requirements for AccessOne. Setting of the most important system parameters such as reader and card formats, validation periods, security levels and offline areas. Instruction in handling the different door models. Preparation for importing personal and device data. A table containing the personal data, door designations and time models must be present on the date set, for that purpose. Max. 3 people, 1 day, including travel costs
D005	Working time One hour corresponds to 6 units of work, per unit of work
D006	Travelling expenses Per driven kilometre
D007	Travelling time One hour corresponds to 6 units of work, price per unit of work
D008	Special hardware/software solutions Special adaptation of devices/interfaces and special functions

Services

Services	
Article number	Description/features
D009	<p>Project planning and design Project planning of mechatronic systems by CES system engineers Scope: - One coordination meeting with site supervision or craftsmen (electricians, fitters, fire safety officers, etc.) Planning will be based on the documents (building plans, room plans) to be supplied by the customer. - Preparation of a specification documentation Any unforeseeable additional services that are due to customer-specific adaptations, interruptions and waiting times as a consequence of delays on the customer's side (e.g. non-appearance of craftsmen) will be charged extra at the stated rates (D005...D007). Per day, incl. travelling expenses</p>
D104	<p>Specifications/documentation Creation of a system-specific set of specifications based on the customer requirements. Contents: - One-time coordination meeting with the construction managers or craftsmen (electricians, joiners, fire protection officers etc.) To be based on documents (construction plans, room plans) that are to be supplied by the customer - Creation of specification documentation Additional unforeseeable services arising from customer-specific adjustments, interruptions and waiting times caused by delays on the construction site (e.g. by craftsmen failing to turn up) will be charged for separately according to effort and expenditure (D005–D007).</p>
D010	<p>Commissioning Commissioning of mechatronic systems by CES system engineers. Scope: Commissioning of the locking devices already fitted by the customer according to CES specifications. Prerequisites: Locking devices are fitted at the place of installation, any wiring that may be required has been laid up to the locking devices according to CES specifications and is clearly marked. Any additional unforeseeable services resulting from customer-specific adaptation, improper preparation, interruptions and delays on the customer's side (e.g. non-appearance of craftsmen, unmarked wiring, etc.) will be charged extra at the stated rates (D005...D007). Per day, incl. travelling expenses</p>

Software service agreement for end users

Software service agreement for end users	
Article number	Description/features
D103	<p>Software service agreement Software support for AccessOne access control systems Per client/per year</p>
	<p>Costs for service not included in the software service agreement: You can choose between an advantageous flat-rate price or a package based on minute calculation for enquires/less intensive support</p>
360027	<p>Software support with software service agreement Support via Teamviewer or phone, depending on the time required at the company Software-connected services: Installation, maintenance, migration, data preparation Flat-rate price, per hour commenced</p>
360028	<p>Software support with software service agreement Support via Teamviewer or phone, depending on the time required at the company. Software-connected services: Installation, maintenance, migration, data preparation Price per minute, per 10 minutes commenced (1 hour = €120.00)</p>

Repairs

Repairs (electronic cylinder, WT, electronic handle sets) replacement
Description/features
Inspection fee Fixed price per device
Repair fee incl. material and test report



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Special function



Special function	Description of function	EB815	EB851	EB8710	EB802
.../3	Mechanical knob shaft with Allen key				+
.../14	With triangular shaft for fire service, M4/M6/M10				+
.../30	Mechanical knob shaft with coin slot				+
.../33	Locking cam, radius 13.5 mm	+	+	+	+
.../34	Mechanical knob shaft with square spindle, internal				+
.../35	One M6 thread on rear, bottom		+		
.../39	BIFFAR double locking cam	+	+	+	+
.../41	10-tooth pinion, Ø 24 mm	+	+	+	+
.../42	Locking cam, ABUS star	+	+	+	+
.../46	Mechanical square shaft, 6 or 8 mm	+			
.../51	Two M4 threads on rear		+		
.../60	Internal mechanical knob with slip clutch	+			
.../97	1 mm shortened cylinder housing for door profiles with core bore hole	+	+	+	+
.../102	Turning lever		+		
.../104	Short side 7.5 mm		+		
.../112	Locking cam, radius 10.8 mm	+	+	+	+
.../113	One M4 thread on rear, bottom		+		
.../120	Mechanical knob shaft with M4 threaded hole	+			
.../121	Mechanical knob shaft with flat milled groove 60°, 7 mm	+			
.../123	Side fixing hole	+	+	+	+
.../124	One M5 thread on rear, bottom		+		
.../127	For glass doors, with short inner side	+			+
.../130	Mechanical knob shaft Ø 8 mm	+			
.../131	Mechanical knob shaft Ø 7.9 mm	+			
.../132	Mechanical square shaft, 8.2 mm	+			
.../133	Locking cam, radius 13.1 mm, width 5.2 mm	+	+	+	+
.../137	Mechanical square shaft 6 or 8 mm, length 85 mm	+			
.../139	Mechanical knob shaft Ø 6 mm, length 11.8 mm	+			
.../142	Locking cam, radius 11.3 mm, width 4.3 mm	+	+	+	+
.../143	Mechanical knob shaft with 8 mm internal square spindle				+
.../158	Mechanical square shaft, 5 mm	+			
.../160	18-tooth pinion, Ø 30 mm	+	+	+	+
.../163	Radius 13.5 mm, width 4.5 mm	+	+	+	+
.../167	Mechanical knob shaft with flat driver pin, can be cut to length, width 7.5 mm	+	+		
.../176	Mechanical knob shaft Ø 7 mm	+			
.../182	Mechanical knob shaft Ø 7 mm, without hole	+			

Extensions




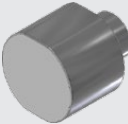



Length A (K, internal)	Length B (S, external)	Overall length
30,5	30,5	61
30,5	35,5	66
30,5	40,5	71
30,5	45,5	76
30,5	50,5	81
30,5	55,5	86
30,5	60,5	91
30,5	65,5	96
30,5	70,5	101
30,5	75,5	106
30,5	80,5	111
35,5	35,5	71
35,5	40,5	76
35,5	45,5	81
35,5	50,5	86
35,5	55,5	91
35,5	60,5	96
35,5	65,5	101
35,5	70,5	106
35,5	75,5	111
35,5	80,5	116
40,5	40,5	81
40,5	45,5	86
40,5	50,5	91
40,5	55,5	96
40,5	60,5	101
40,5	65,5	106
40,5	70,5	111
40,5	75,5	116
40,5	80,5	121
45,5	45,5	91
45,5	50,5	96
45,5	55,5	101
45,5	60,5	106

Length A (K, internal)	Length B (S, external)	Overall length
45,5	65,5	111
45,5	70,5	116
45,5	75,5	121
45,5	80,5	126
50,5	50,5	101
50,5	55,5	106
50,5	60,5	111
50,5	65,5	116
50,5	70,5	121
50,5	75,5	126
50,5	80,5	131
55,5	55,5	111
55,5	60,5	116
55,5	65,5	121
55,5	70,5	126
55,5	75,5	131
55,5	80,5	136
60,5	60,5	121
60,5	65,5	126
60,5	70,5	131
60,5	75,5	136
60,5	80,5	141
65,5	65,5	131
65,5	70,5	136
65,5	75,5	141
65,5	80,5	146
70,5	70,5	141
70,5	75,5	146
70,5	80,5	151
75,5	75,5	151
75,5	80,5	156
80,5	80,5	161
Other lengths on request		

Finishes

Finish no.	Finish abbreviation	Designation
Standard		Edelstahloptik
Standard		black
01	MMVG	Nickel-plated dull
02	MMGB	Brass brushed
03	MPOL	Brass polished
04	MMCR	Chrome-plated velours
05	MPCR	Chrome-plated polished
06	MPV	Nickel-plated polished
07	MBR	Brass bronze
08	MALT	Brass smooth antique
15	MBRD	Dark brown coloured
16	MBRH	Light brown coloured
17	MANT	Brass brushed antique
18	KANT	Brass copper antique
20	MVGE	Nickel-plated dull protective
31	MMVB	Nickel-plated brushed
33	MGCR	Brushed chrome plated
49	MGV	Nickel-plated velours

Knob shapes

Form	Code	Description
	A	A-Knauf
	CR	CR-Knauf
	CT	CT-Knauf
	EB	EB-Knauf
	EH	EH-Knauf
	E	E-Knauf
	ES	ES-Knauf

Form	Code	Description
	ET	ET-Knauf
	F	F-Knauf
	FL	FL-Knauf
	HH	HH-Knauf
	H	H-Knauf
	J	J-Knauf
	S	S-Knauf

Options

Finishes and knobs

Finish code	Knob type	Knob code		Price category
MMVG	H	H/NF	=	Standard
		H/NG	=	Standard
	CT	UKNG	=	2
	ET	ETNG	=	2
	CR	CRNG	=	1
	E	E/NF	=	2
	A	A/NF	=	2
	S	S/NG	=	2
	HH	HHNF	=	2
	ES	ESNF	=	2
EH	EHNF	=	2	
MMVB	H	H/NG	=	Standard
		CT	UKNG	=
	ET	ETNG	=	2
	CR	CRNG	=	1
	E	E/NG	=	2
	A	A/NG	=	2
	S	S/NG	=	2
MMGB	H	H/MG	=	1
		CT	UKMG	=
	ET	ETMG	=	2
	CR	CRMG	=	1
MPOL	H	H/MP	=	1
		CT	UKMP	=
	ET	ETMP	=	2
	CR	CRMP	=	1
MPOU	H	H/MU	=	1
		CT	UKMU	=
	ET	ETMU	=	2
	CR	CRMU	=	1
MESN	H	H/MN	=	2
		CT	UKMN	=
	ET	ETMN	=	2
	CR	CRMN	=	2

Finish code	Knob type	Knob code		Price category	
MMCR	+	H	H/MC	=	2
		CT	UKMC	=	2
		ET	ETMC	=	2
		CR	CRMC	=	2
MPCR	+	H	H/PC	=	2
		CT	UKPC	=	2
		ET	ETPC	=	2
		CR	CRPC	=	2
MGCR	+	H	H/CG	=	2
		CT	UKCG	=	2
		CR	CRCG	=	2
MPV	+	H	H/PV	=	1
		CT	UKPV	=	2
		ET	ETPV	=	2
M_SS	+	H	H/EF	=	1
		H	H/NI	=	2
		CT	UKEF	=	2
		ET	ETEF	=	2
		EB	EBEF	=	Standard
		CR	CREF	=	1
MGV	+	H	H/MV	=	1
		CT	UKMV	=	2
		ET	ETMV	=	2
		CR	CRMV	=	1
MGVE	+	H	H/GE	=	1
MALT	+	H	H/AD	=	2
		CT	UKAD	=	2
		ET	ETAD	=	2
		CR	CRAD	=	2
MANT	+	H	HMAN	=	2
		CT	UKMA	=	2
		CR	CRMA	=	2
MBRH	+	H	H/BH	=	2
		CT	UKBH	=	2
		ET	ETBH	=	2



Options Finishes and knobs

Finish code		Knob type	Knob code		Price category	Finish code		Knob type	Knob code		Price category		
MBR	+	H	H/BÜ	=	2	C520	+	CT	UKBB	=	2		
		CT	UKBÜ	=	2			ET	ETBB	=	2		
		CR	CRBÜ	=	2			CR	CRBB	=	2		
MBRD	+	H	H/BD	=	2	C640	+	H	H/64	=	2		
		CT	UKBD	=	2			CT	UK64	=	2		
		ET	ETBD	=	2			ET	ET64	=	2		
		CR	CRBD	=	2			CR	CR64	=	2		
MMSW	+	H	H/SG	=	2			C642	+	H	H/64	=	2
		CT	UKSW	=	2	CT	UK64			=	2		
		ET	ETSW	=	2	ET	ET64			=	2		
		CR	CRSG	=	2	CR	CR64			=	2		
F79	+	H	H/79	=	2	C650	+			H	H/65	=	2
		CT	UK79	=	2			CT	UK65	=	2		
		ET	ET79	=	2			ET	ET65	=	2		
		CR	CR79	=	2			CR	CR65	=	2		
KANT	+	H	H/KAN	=	2			C652	+	E	E/65	=	2
		CT	UKKA	=	2	A	A/65			=	2		
C500	+	H	H/WL	=	2	C652	+			H	H/65	=	2
		CT	UKWL	=	2					CT	UK65	=	2
		ET	ETWL	=	2					ET	ET65	=	2
		CR	CRWL	=	2			CR	CR65	=	2		
		E	E/WL	=	2			E	E/65	=	2		
C502	+	H	H/WL	=	2	C660	+	H	H/66	=	2		
		CT	UKWL	=	2			CT	UK66	=	2		
		ET	ETWL	=	2			ET	ET66	=	2		
		CR	CRWL	=	2			C662	+	H	H/66	=	2
		E	E/WL	=	2					CT	UK66	=	2
C506	+	H	H/WL	=	2	ET	ET66			=	2		
		CT	UKWL	=	2	C662	+	H	H/66	=	2		
		ET	ETWL	=	2			CT	UK66	=	2		
		CR	CRWL	=	2			ET	ET66	=	2		
E	E/WL	=	2										



Options Finishes and knobs

Finish code		Knob type	Knob code		Price category
C670	+	H	H/67	=	2
		CT	UK67	=	2
		ET	ET67	=	2
		CR	CR67	=	2
C672	+	H	H/67	=	2
		CT	UK67	=	2
		ET	ET67	=	2
		CR	CR67	=	2
C680	+	H	H/68	=	2
		CT	UK68	=	2
		ET	ET68	=	2
		CR	CR68	=	2
C682	+	H	H/68	=	2
		CT	UK68	=	2
		ET	ET68	=	2
		CR	CR68	=	2
C690	+	H	H/69	=	2
		CT	UK69	=	2
		ET	ET69	=	2
		EB	EB69	=	Standard
		CR	CR69	=	2
		E	E/69	=	2
C692	+	H	H/69	=	2
		CT	UK69	=	2
		ET	ET69	=	2
		CR	CR69	=	2
		E	E/69	=	2



Lever handle shapes

Form	Code	Description
	FSB1070	Handle shape FSB 1070 'U-shape', suitable for EN179
	FSB1076	Lever handle shape FSB 1076 'L-shape'
	FSB1053	Handle shape FSB 1053 'Ulmer Klinke', suitable for EN179
	FSB1053G	Handle shape FSB 1053G 'Ulmer Klinke, elbowed', suitable for EN179
	FSB1070G	Handle shape FSB 1070 'U-shape, elbowed', suitable for EN179
	FSB1244	Lever handle shape FSB 1244
	FSB1245	Lever handle shape FSB 1245
	FSB1245G	Lever handle shape FSB 1245, elbowed
	FSB1267	Lever handle shape FSB 1267
	FSB1004	Lever handle shape FSB 1004

Further FSB lever handle shapes on request

General Terms of Delivery and Payment (the “Terms”)

1. Binding effect of the Terms

- 1.1. Any and all of our deliveries and services and any dependent or independent warranties to business entities, public law entities or special funds organized under public law shall now and in future be exclusively subject to the Terms stated below.
- 1.2. We expressly object to the applicability of any other terms – also for future business transactions – to the extent these are in conflict with our Terms unless we have expressly agreed in writing to such other terms as the basis of the respective contract. These General Terms of Delivery and Payment shall not apply to consumers (as defined in section 13 of the German Civil Code, BGB).

2. Object of the delivery/service

- 2.1. A legally binding contractual relationship with the orderer shall only commence when at our option we dispatch the ordered goods or have acknowledged the order in writing, which acknowledgement shall also be valid if made by telephone, e-mail or unsigned computerized message as long as our authorship is evident. The scope, kind and time of the delivery of goods or provision of services shall be governed by our acknowledgement of the order.
- 2.2. Any documents pertaining to the offer such as drawings, data sheets, figures, plans, etc. shall be of subordinate importance and shall only be authoritative for the contractual quality of the delivery or service to the extent they have been expressly identified as binding. Either contracting party shall use any documents (including but not limited to specimens, models, data) and information it obtains as part of the business relation solely for the jointly pursued purpose and shall maintain their secrecy vis-à-vis third parties with the same diligence as applied to its own documents and knowledge if the other contracting party has designated the same as confidential or has an obvious interest in their confidentiality. This obligation shall commence upon the initial receipt of the documents or knowledge and shall end thirty-six (36) months after the termination of the business relation. This obligation shall not apply to any documents and/or knowledge that are in the public domain or that at the time of their disclosure are already known to the other contracting party without any obligation to maintain their secrecy or that after their disclosure are made known to the other party by a third party authorized to disclose the same or that are independently developed by the receiving party without using any confidential documents or knowledge of the other contracting party.
- 2.3. We reserve the right to make design changes to the extent these are reasonable for the customer. Our catalogues and the information published on the Internet are continuously being updated. Any descriptions, figures and drawings included in these catalogues and on our web site are not binding and can neither be construed as a specification of quality nor as a warranty.
- 2.4. Make-and-hold orders (call-off orders) shall be placed in time and for the agreed partial quantities and the delivery of the ordered goods shall be accepted. In the case of make-and-hold orders without an agreement of term, manufacturing lot sizes and acceptance dates, we may demand a binding definition of the acceptance after the expiry of a period of three (3) months after our acknowledgement of the order. If the orderer fails to fulfil its obligation to accept delivery within three (3) weeks, we may set a final period of grace of two (2) weeks, and after the lapse of the extension granted may withdraw from the contract or refuse delivery and, subject to the satisfaction of the other statutory conditions, claim damages. Make-and-hold orders shall be valid for a maximum period of twenty-four (24) months as from the date of our acknowledgement of the order. After the expiry of that period, we may invoice the buyer for any goods not called off or for the materials stored at our premises with our cost and profit mark-ups.

3. Warranties

- 3.1. Warranties for the object of the delivery shall only be binding for us if they are expressly confirmed in the contract itself.
- 3.2. The accuracy of warranties contractually given by us shall exclusively refer to the quality and condition of the goods at the time of their delivery.
- 3.3. This warranty shall be no longer valid if the orderer or a third party makes improper modifications or repairs at our products and/or if replacement keys manufactured by a third party are used.

4. Prices and terms of payment

- 4.1. All list and catalogue prices are stated in euros and are subject to confirmation. The valid price shall be the price stated in our acknowledgement of the order. All prices are stated net and shall be valid for the delivery ex works without costs of packaging, transport and insurance (delivery charges). The applicable value added tax and the applicable delivery charges shall be charged additionally and shall be shown separately on the invoice. In the case of delivery periods of more than four (4) months, we shall charge the prices applicable at the date of the delivery and/or provision of the service.
- 4.2. Any bills of exchange will only be accepted upon separate agreement and only on account of performance and only if they can be discounted. Discounting charges shall be payable as from the due date of the invoice amount. Any warranty for the timely presentation of bills of exchange and cheques and for protesting shall be excluded.
- 4.3. Unless agreed otherwise, our invoices shall be payable without any deduction within fourteen (14) days as from the date of the invoice.
- 4.4. In the case of a delay in payment, we may charge default interest at the rate we are charged by our bank for overdrafts on current account, provided that the minimum default interest shall be eight (8) percentage points above the then applicable basic rate of interest rate. Upon written notice to the orderer we may also suspend the fulfilment of our obligations under other orders until receipt of the payments.
- 4.5. If we have delivered goods with a defect that is not disputed, the orderer shall nevertheless be obliged to make payment for the non-defective share, unless a partial delivery is of no interest to the orderer.

5. Shipping and insurance

- 5.1. Shipping shall always be made for the account and at the risk of the buyer. We will insure our consignments against all transport risks at a premium fee of 1 % of the net goods value of the consignment. If the orderer does not desire such insurance, this shall be pointed out when the order is placed.
- 5.2. Upon receipt of a notice that goods are ready for shipping, the orderer shall take over these goods without delay. Otherwise, we may at our choice ship these goods or store them for the account and at the risk of the orderer.
- 5.3. Unless agreed otherwise, we shall select the means and route of transport.
- 5.4. The risk shall pass to the orderer upon delivery of the goods to the railway company, the forwarder or the carrier or, as the case may be, upon transfer of the goods into the storage, in any case, however, no later than at the time the goods leave the works or the storage. This shall also apply if we have taken over the shipping.

6. Delivery, delivery period, delivery obstacles

- 6.1. For all our deliveries, the agreed delivery period shall be considered to have been met if the respective goods are shipped or collected within this period. If the delivery is delayed for reasons for which the orderer is responsible, the delivery period shall be considered to have been met if the notice that the goods are ready for shipping is sent within this period. Reasonable partial deliveries shall be permitted and shall be invoiced separately. The delivery period shall commence with the sending of our acknowledgement of the order and shall extend accordingly if the conditions stated in item 15.6. (force majeure) are satisfied.
- 6.2. If the performance of our delivery obligations or part thereof is made impossible, delayed or rendered more difficult as a consequence of circumstances that cannot be averted by employing reasonable diligence, we may withdraw from the contract or extend the delivery period for the duration for which the impediment exists and no such withdrawal or extension shall give rise to a right to claim damages.
- 6.3. If we can foresee that the goods cannot be delivered within the delivery period, we shall promptly inform the orderer thereof in writing also stating the reasons of the delay and, if possible, the expected date of delivery. The orderer may only withdraw from the contract for this reason if we are responsible for the non-adherence to the date of delivery and a reasonable extension granted by the orderer has lapsed.



General Terms of Delivery and Payment (the “Terms”)

6.4. If after the conclusion of the contract, it becomes apparent that our claim for payment may be jeopardized by insufficient capability of the contractual partner, we may withhold the delivery and define an appropriate period in which the contractual partner has to pay concurrently with delivery or provide security. If the contractual partner refuses or the period lapses without success, we may withdraw from the contract and claim damages.

7. Complaints, claims based on defects

7.1. Default claims by the orderer shall require that this party has duly complied with its investigation and complaint obligations owed pursuant to § 377 of the German Commercial Code (HGB). Defects in the delivery are to be notified without undue delay after they are discovered. In the event of non-timely, due notification of objections or defect complaints, defect claims shall be excluded to that extent.

7.2. If the delivered goods are defective, the orderer may at first only demand curing. We reserve the right to select the kind of cure – rectification of the defects (repair) or substitute delivery – and may change the kind of cure with each new curing attempt. We reserve the right to make design changes that are reasonable for the orderer.

7.3. The orderer shall only have a right to withdraw from the contract or reduce the purchase price if the cure has finally failed or if we have allowed an appropriate period of grace granted us by the orderer for the cure in writing to lapse without rectifying the defect. The orderer shall also have the above rights if the orderer has granted us an appropriate period of grace in writing with a warning that further cures will be refused and we have allowed that period to lapse without making a substitute delivery or rectifying the defect or if the cure is impossible or is refused by us.

7.4. In the case of a rectification of defects, we shall bear any and all expenses required for the purpose of rectifying the defects. A reimbursement of costs shall be excluded to the extent the expenses are increased because the goods have been moved to another place after our delivery unless this is in line with the intended use of the goods.

7.5. If the orderer has installed the defective purchase item pursuant to its type and its intended purpose in another item or put it onto another item, in the framework of subsequent performance we are obliged to compensate the orderer for the necessary expenditure for the removal of the defective purchase item and the installation or affixation of the subsequently-improved or delivered flawless purchase item. This shall not apply if the orderer is aware of the defect at the time of the installation or the affixation of the defective item. If the orderer remained unaware of a defect as a consequence of gross negligence, it can only claim reimbursement of the installation and removal costs such as rights at all due to the defect in the purchase item if we maliciously concealed the defect or gave a guarantee of the quality of the item.

7.6. Defect claims cannot be based on unsuitable or improper use, natural wear and tear, nor on damage which occurs as a consequence of incorrect or negligent handling, exclusive loads, unsuitable processing, etc. as well as such influences which are not intended pursuant to the contract, insofar as the damage is not attributable to fault on our part.

7.7. Our warranty is excluded in the case of modifications and repair work unprofessionally made to our products on the part of the orderer or third party as well as when using third-party duplicate keys.

8. Repairs

8.1. The remuneration for all repairs that are performed on products manufactured by us outside the warranty as defined in section 7, shall be governed by the then current price list plus statutory value added tax and shipping charges.

8.2. An estimate shall only be provided if this is explicitly requested. If products are sent to us without any explicit request, the repairs listed in the then current price list will be performed immediately and without a prior estimate. If the costs of the repair work exceed the top price category of the then current price list or in the case of a total loss, we shall notify the orderer thereof in writing. Estimates that are not approved shall be remunerated as stated in the price list applicable at the time.

8.3. The stipulations of sections 7, 11 and 12 shall apply accordingly to defects in the repair work and their limitation as well as our liability.

9. Return of goods

9.1. If the orderer desires to withdraw from the contract without a legal cause and if we consent to such withdrawal, we shall nevertheless charge a cancellation fee; even if we consent, we reserve the right to claim compensation for lost profit. Any goods returned shall be sent back to the previous place of despatch in their original package and all freight and expenses paid. For resalable items in perfect packaging, a credit note less 10% shall be issued; if repacking is necessary the deduction shall be 20%; the orderer shall have the right to furnish proof that we have suffered a lower damage. A return of manufactured items and cylinders for locking systems shall be excluded.

10. Software

10.1. Software will be delivered as a single licence; in our relation to the orderer, we shall be author within the meaning of sections 69a – 69g of the German Copyright Act (UrhG). Software may only be used for the own purposes. Demo versions will not be taken back.

11. Limitation of liability

11.1. For claims for damages based on fault regardless of the form of action, we shall only be liable if the violation of duty which gives rise to the claim is due to intentional behaviour or gross negligence – including intentional behaviour or gross negligence by our representatives or vicarious agents. This limitation shall not apply to claims for damages resulting from an injury to life, body or health or a violation of a material contractual duty.

11.2. To the extent our liability for damages is excluded or limited, this shall also apply to the personal liability of our employees and our vicarious agents.

11.3. In the case of a negligent, but not grossly negligent, violation of a material contractual duty by us or in the case of a grossly negligent, but not more serious, violation of a material contractual duty by simple vicarious agents used by us, our liability shall be limited to the compensation of the typical foreseeable damage. The same shall apply to liability for initial inability to effect performance, not however, for damages resulting from an injury to life, body or health and claims under the German Product Liability Act.

11.4. Damage in the form of lost profit shall only comprise the profit that would have been realized by the orderer with our delivery, not however, additionally the profit lost by orderer as a result in the case of a covering transaction because the orderer could have profitably exploited the performance used for the covering transaction otherwise.

11.5. If any third party asserts a claim against the orderer for which the orderer might have recourse against us, the orderer shall promptly inform us in full and involve us in the negotiations about the claim and shall enable us to actively defend against such claim or satisfy such claim for the orderer. If the orderer fails to fulfil these obligations, the orderer shall in the case of the recourse have the burden of proof to show that its compensation to the third party would not have been lower without our involvement and that it has fully performed its obligation to mitigate the damage. This shall also apply to any expenses that the orderer incurs to satisfy or avert such third-party claims. Otherwise, the orderer's rights pursuant to § 445a and § 478 of the German Civil Code (BGB) shall remain unaffected.

12. Limitation of action

12.1. Any claims for defects pursuant to sec. 7 shall become time-barred after twelve (12) months as from the passage of the risk. If the defect relates to a consignment of goods that were used for a building in line with their usual manner of use and caused the deficiency of the building, the period of limitation shall be two (2) years as from the passage of the risk. Sentence 1 and sentence 2 shall not apply if the defect was concealed fraudulently or if the intended final user of the consignment is a consumer.

12.2. Unless the law prescribes a shorter limitation period, any other claims by the orderer shall be time-barred no later than five (5) years after they have arisen irrespective of when they became known or should have become known.

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12.3. The period of limitation in the case of a delivery regress pursuant to §445b of the BGB shall remain unaffected.

13. Retention of title

13.1. We retain the title to the delivered goods until the full satisfaction of all claims we have against the orderer under the business relations. The orderer shall have the right, which right may be revoked at any time, to dispose of the goods that are subject to the retention of title in its ordinary course of business provided the orderer timely performs its obligations under the business relation with us. The orderer shall not have the right to pledge the goods that are subject to the retention of title nor assign the same by way of security. In the case of a credited resale of the goods that are subject to the retention of title, the orderer shall safeguard our rights.

13.2. To the extent the goods that are subject to the retention of title are mixed, mingled or combined with other movable items that are not our property, we shall acquire an ad valorem co-owner's interest. The same shall be applicable in the case of any processing or transformation. It shall be assumed that such processing or transformation is made by our order.

13.3. In the case of the resale and the use of the goods that are subject to the retention of title as material for the performance of contracts for work, the orderer already now assigns to us any and all present and future claims the orderer may have against the purchasers or customers in this connection. In the case of a sale and/or performance of contracts for work together with other movable items that are not our property, said claims of the orderer are herewith assigned to us in the amount of a first ranking ad valorem partial sum, unless these accounts receivable have been assigned before to a supplier of the customer as part of an extended reservation of title. In this case, the claim for re-assignment of the account receivable shall be assigned to us, which assignment is herewith accepted. The orderer shall have the right, which right may be revoked at any time, to collect the assigned accounts receivable in its own name. The orderer shall at any time upon our demand demonstrate the existence of the accounts receivable assigned to us by way of security and shall name their debtors, attaching copies of invoices that must bear a note “Assigned to C.Ed. Schulte GmbH Zylinderschlossfabrik” that is properly signed and dated by the orderer, and if applicable stating the amount assigned.

13.4. If the orderer is in default with the payment of our accounts receivable in an amount other than an immaterial amount or if the orderer is culpable of a violation of any other obligations to us other than immaterial obligations, we may revoke the permission to dispose of the goods and to collect; the same shall apply if bills of exchange or cheques against the orderer are protested. If the orderer fails to pay all of our outstanding accounts receivable in full within two weeks after receipt of our revocations, we may take possession of the goods that are subject to the retention of title and disclose the assignment to the debtors. If judicial insolvency proceedings are instituted against the assets of the orderer or the institution of such insolvency proceedings is refused for lack of assets, we are entitled to immediately take back the goods that are subject to the retention of title.

13.5. In the case of the contractual partner's violation of its duties, including but not limited to a default on its payments, we may withdraw from the contract and take back the goods after an appropriate extension for performance granted to the contractual partner has lapsed without success. The statutory provisions concerning the dispensability of the setting of a period shall remain unaffected. The contractual partner shall be obliged to surrender possession. We may withdraw from the contract if an application is filed to institute insolvency proceedings against the assets of the contractual partner.

13.6. Upon request by the orderer we shall at any time release the above securities at our choice to the extent their value not only temporarily exceeds the nominal value of our outstanding accounts receivable including interest by more than 20%. To the extent we have acquired ad valorem rights as described above, our share shall correspond to the share of the value of our goods that are subject to the reservation of title in relation to the value of the goods of the orderer or of third parties, in each case based on the orderer's purchase values. Within the context of the release clause, assigned accounts receivable shall be valued at 80% of their nominal value, goods that are subject to a retention of title at their purchase value, and co-ownership interests at cost.

14. Specimens and manufacturing resources, patents

14.1. Unless agreed otherwise, the costs of production for specimens and manufacturing resources (tools, moulds, templates, etc.) shall be invoiced separately from the goods to be delivered. This shall also apply to manufacturing resources that must be replaced due to wear and tear.

14.2. If the contractual partner suspends or terminates the cooperation during the time in which the specimens and/or manufacturing resources are produced, any and all costs of production incurred until that date shall be borne by the contractual partner.

14.3. The manufacturing resources shall remain in our possession even if the contractual partner has paid the same, at least until the performance of the delivery contract. Thereafter, the contractual partner may demand the surrender of the manufacturing resources if a mutual agreement has been found on the time of surrender and if the contractual partner has fully performed its contractual obligations.

14.4. We shall keep the manufacturing resources free of charge for a period of three (3) years after the final shipment to our contractual partner. Thereafter we will request our contractual partner in writing to let us have its decision on the further use within six (6) weeks. Our obligation to keep the manufacturing resources in custody shall terminate if no such communication is received or no new order is placed within six (6) weeks.

14.5. In the case of a manufacturing based on models, data, drawings or designs of the orderer, the orderer shall be responsible for compliance with the property rights of third parties and shall fully indemnify us for and against any related claims.

15. Miscellaneous

15.1. The orderer shall not have any right of offsetting and/or retaining on account of counterclaims or rights unless these claims or rights have been acknowledged by us, are undisputed, or have been finally determined.

15.2. The orderer may not assign any claims to third parties unless with our consent.

15.3. Information on order filling including the creation of the locking plan will be acquired, processed and stored using electronic data processing systems.

15.4. Exclusive place of jurisdiction for any and all deliveries and payments, including cheques or bills of exchange accepted by us, shall be Velbert, Germany. However, we reserve the right to sue any orderer at our option also at its ordinary place of jurisdiction.

15.5. The contractual relationship shall be exclusively governed by German law. The application of the United Nations Convention on Contracts for the International Sale of Goods of 11 April 1980 (CISG – “Vienna Sales Convention”) shall be excluded.

15.6. In the case of force majeure, labour disputes, unrests, official measures, non-receipt of supplies from suppliers and other unforeseeable, unavoidable and severe events, the contractual parties shall be released from their obligations for the duration of the disruption and to the extent of its effects. This shall also apply if these events occur at a time in which the contracting party affected is in default, unless such party has caused the default with intent or gross negligence. To the extent reasonable, either contracting party shall immediately provide the required information and adapt its obligations to the changed circumstances in good faith.

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