



# Products and Services

Access Control System **AccessOne**

# Special notes

1. CEStronics accepts no liabilities for errors including printing errors; Subject to technical changes without notice
2. State 01.2023

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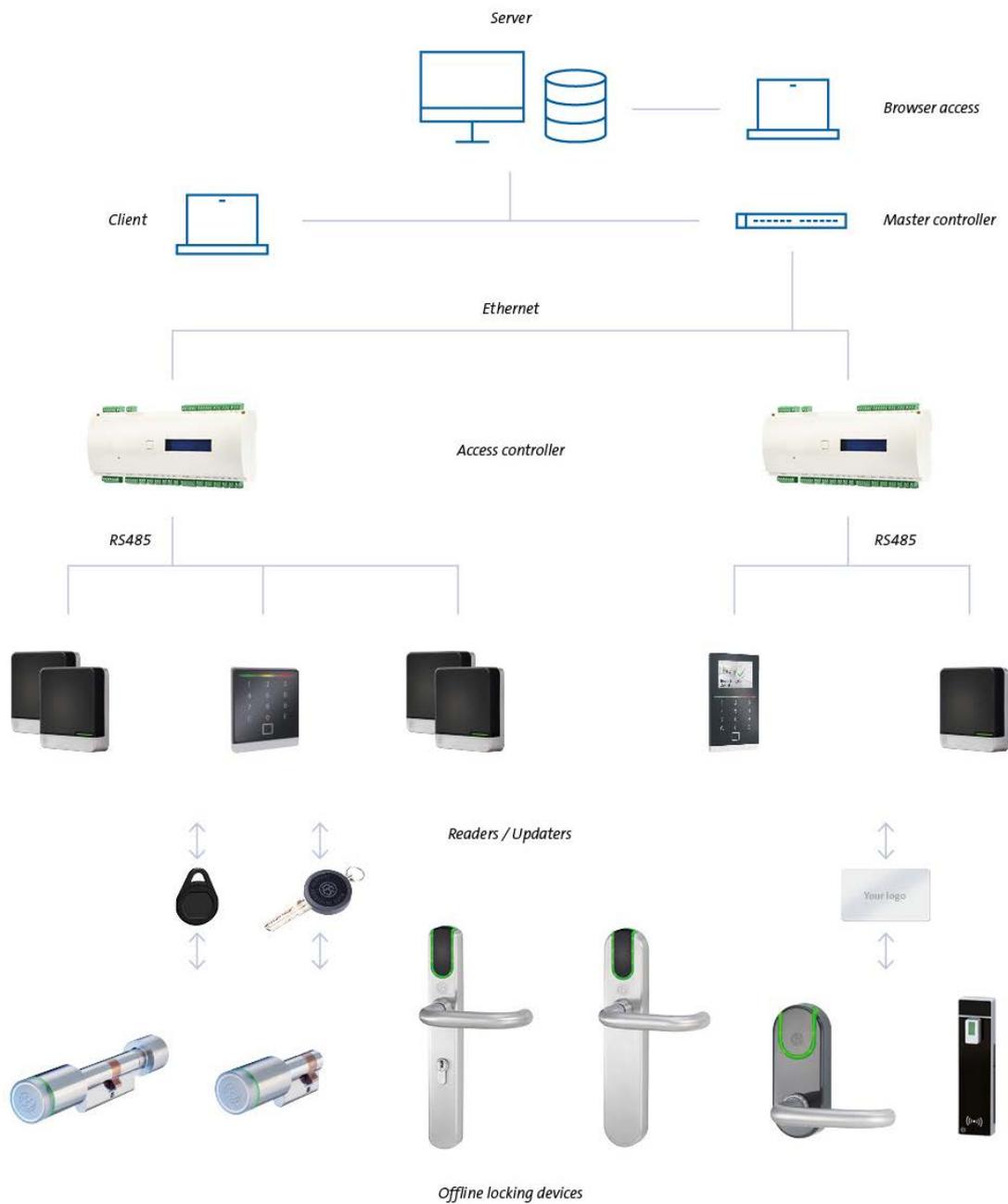
## AccessOne access control system

### 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
- and optional server redundancy concept



## AccessOne software: higher-level central access controller

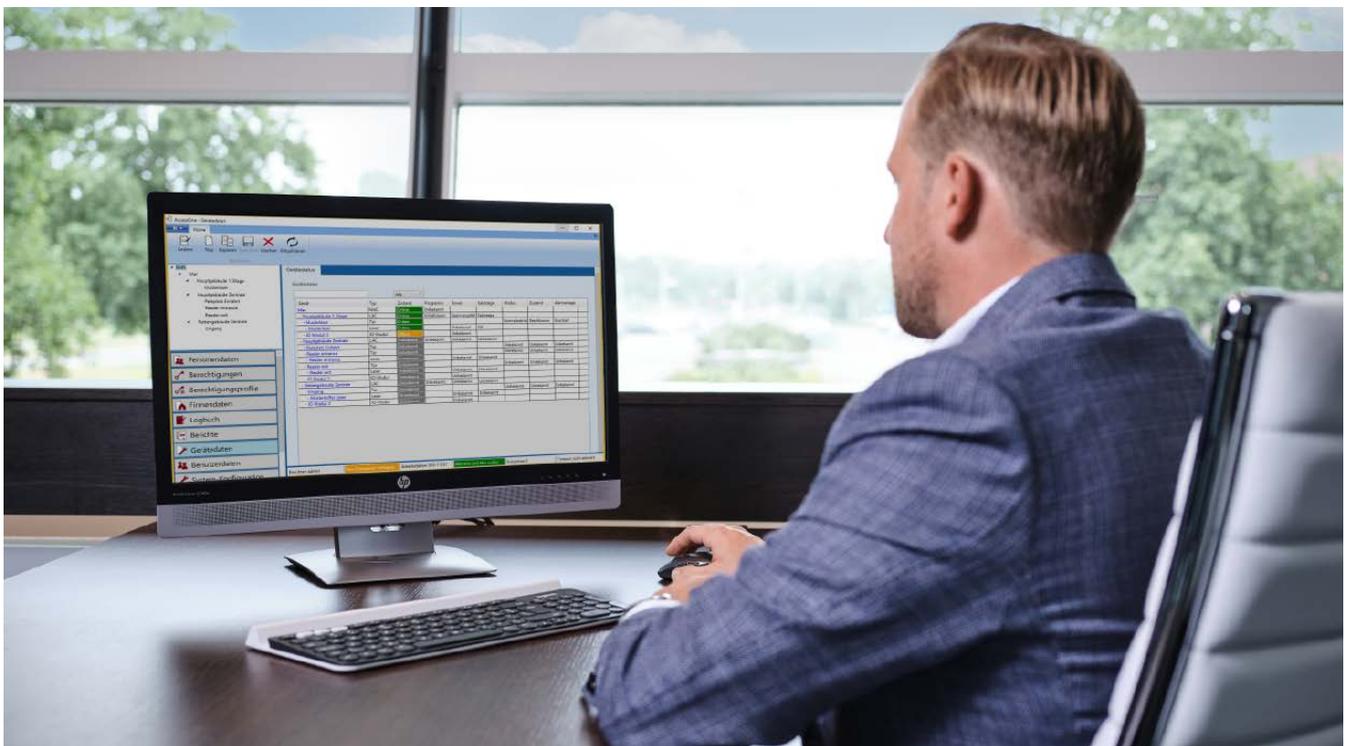
- Can be extended from a solution for SMEs with a few doors and up to 200 staff to the full version for large companies with complex organisational and security requirements and up to 200,000 employees.
- User-oriented views that are easy to understand
- Time models, day models, automatic public holiday 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	
Article number	Description / features
348100V	<p><b>AccessOne software, full version, Basic license</b> 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"> <li>- 50 ID card readers</li> <li>- 50 mechatronic offline locking devices</li> <li>- 1,000 locking media/ID cards</li> <li>- 2 software workstations.</li> </ul>
348101V	<p><b>AccessOne software for SMEs.</b> Identical scope of performance as for AccessOne, but tailored to suit SMEs.</p> <p>The license authorises the use of</p> <ul style="list-style-type: none"> <li>- 25 online ID card readers</li> <li>- 25 mechatronic offline devices</li> <li>- 200 locking media/ID cards</li> <li>- 2 software workstations.</li> </ul> <p>Package cannot be extended with function extensions.</p>
348102V	<b>Upgrade from AccessOne-SME to AccessOne full version</b>
348103V	<p><b>Update at version level</b> Update an existing version to the latest version.</p>
SOFTWARE database extensions	
Article number	Description / features
348104V	<p><b>Addition of a further workstation to AccessOne.</b> The max. quantity of workstation per system is 100.</p>
348105V	<p><b>Extension of AccessOne to enable it to administer 25 additional online readers.</b> Per 25 online readers</p>
348106V	<p><b>Extension of AccessOne to enable it to administer of 100 additional locking media/ID cards</b> per 100 media items</p>
348107V	<p><b>Extension of AccessOne to enable it to administer of 25 additional mechatronic offline locking devices</b> per 25 locking device items</p>

## Software

SOFTWARE function extension	
Article number	Description / features
348120V	<p><b>ID card creation</b></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>
348121V	<p><b>Multi-Client function</b></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><b>Visitor administration</b></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><b>Parking area management</b></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><b>Time registration</b></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 &amp; attendance management system daily, in CSV format.</p>
348125V	<p><b>Server redundancy</b></p> <p>Adds a hot standby function to AccessOne.</p>
348126V	<p><b>Third-party supplier administration</b></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>
Accessories Programming	
Article number	Description / features
342208V	<p><b>CEStronics RF-Stick</b></p>
350112	<p><b>Device upgrade / device downgrade</b></p> <p>License to upgrade or downgrade the device variant.</p> <p>Example: /T to /NET = 1 upgrade; /NET to /T = 1 downgrade, /T to /TV = 1 upgrade etc. Price per upgrade/downgrade</p>
348031V	<p><b>Desktop writer for 13,56 MHz media</b></p> <p>with USB interface, incl. Cable</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	<p><b>Central access controller for up to 8 doors</b> with up to 32 readers on RS485 interfaces for DIN rail installation Type AccessOne TSG8/Compact</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: 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	<p><b>Central access controller for up to 2 doors</b> with up to 4 readers on RS485 interfaces For wall terminal wall mounting Type: AccessOne TSG1/SDC</p>

## 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

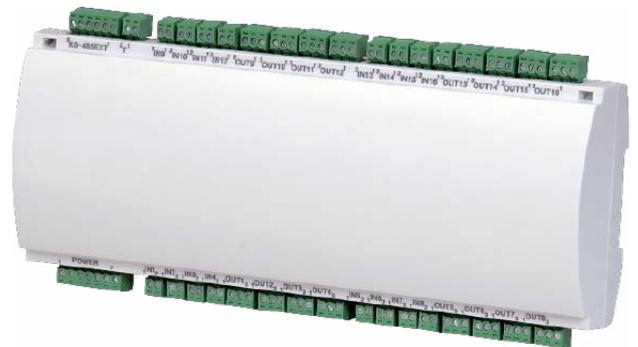


Figure: 16-IO module

### 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><b>Input/output extension module</b>                      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><b>Input/output extension module</b>                      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><b>Single metal housing</b>                      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><b>Double metal housing</b>                      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><b>Power supply unit with charging circuit</b>                      suitable for TSG8/Compact                      For creating a UPS                      Output power level 60VA                      For DIN rail installation                      Type BOSCH PSU-60</p>
348012V	<p><b>Battery, 12V/7Ah</b>                      For creating a UPS for TSG8/Compact in                      combination with BOSCH PSU-60</p>
348023V	<p><b>Power supply unit for TSG8/Compact access controller</b>                      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><b>Power supply unit for TSG1/SDC access controller</b>                      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

### CES standard housing



- Description: WT-I in standard CES housing

### Weather protection housing IP55



- Description: WT-I in CES weather protection housing IP55

### 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	<b>OMEGA FLEX wall terminal and updater</b> 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
Wall terminal housings	
Article number	Description / features
Standard	<b>CES design housing</b> Flush-mounting with metal frame including fixing screw Black or white
Standard for surface mounting	<b>CES design housing</b> Cover with metal frame including fixing screw and surface-mounted frame Weatherproof wall terminal version, IP55 Black or white
345001V	<b>CES design housing as a spare part</b> Cover with metallic frame incl. fixing screw Black or white
345120V	<b>Mounting frame for CES wall terminals with design housing,</b> for mounting wall terminals in back boxes including fixing screws
345103V	<b>Fitting frame for CES wall terminals or readers</b> 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 (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	Description / features
Telecom-Behnke	WT in Telecom-Behnke „Series 20“ design
-ALOP	Stainless steel look without frame
	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, Axcnt Studio white, shiny
	Merten M: Polar white high gloss, other colors on request
	Jung AS500, Jung A594-0, CD500 alpine white
Reader options	
Article number	Description / features
247724V	Power supply unit for WT wall terminals Power supply unit for DIN rail assembly in secured areas 230V AC / 12 V DC (max. 800 mA) Suitable for connection to additional consumers (e.g. electric strike) Finish: Light grey

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				

## Datafox reader

### Datafox reader with access and update function

- Two-factor authentication with PIN code

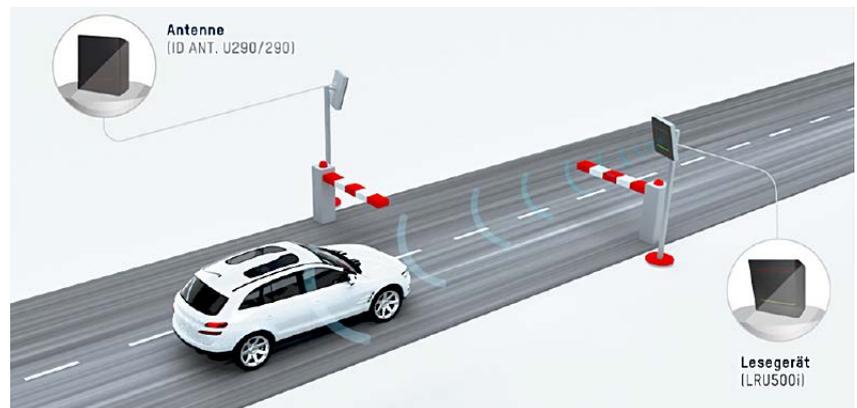


Datafox reader with access and update function	
Article number	Description / features
348033V	<b>LEGIC and MIFARE Multi-RFID-System reader</b> with PIN code keyboard With RS485 interface to the host Protection type IP65, suitable for direct installation outdoors Typ Datafox EVO Intera II
348032V	<b>Surface-mounted frame EVO</b> including mounting material Finish: Anthracite

### 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	<b>UHF long-range reader for vehicle access control</b> With RS485 interface for direct connection to the access controller. Red/green/blue visual display Anti-collision Weatherproof plastic case IP65 (290 x 290 x 100 mm) Operating voltage 12-24V DC/16W Type Feig LRU500i
348016V	<b>VESA100 mast and wall-mounting set</b> Pipe diameter 1 inches to 3 inches (approx. 2.5 cm to 7.6 cm) Suitable for LRU500i long-range reader
348014V	<b>24V power supply for LRU500i long-range reader.</b> Different plugs are available (EU, GB, US) but not included.
348028V	<b>Power cord for 24V power supply (348014V)</b>
348018V	<b>UHF locking medium, encrypted, self-adhesive</b> 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
348019V	<b>External antenna for adding a vehicle lane/access road</b> Robust circular UHF long-range antenna 65° For connecting to stationary UHF readers Connection: TNC socket Frequency range: 865 - 868 MHz
348020V	<b>Cable for connecting the separate antenna to the long-range reader</b> 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

## Electronic cylinders MIFARE or LEGIC ID System

Double knob cylinder  
F815DK



- For single sided identification with electronic locking media.
- Optical Red/Green display via integrated light ring
- Acoustic signal via integrated beeper
- On the outside, locking is only possible with an authorised locking media, on the inside, permanent locking via mechanical knob
- Base length: 27.5 mm/27.5 mm (outside/inside) up to 65 mm total length
- Finish: Stainless steel.
- Delivery including operating battery and special fastening screw

Double knob Anti-Panic  
cylinder  
F815DK-x-AP



- Product description as for F815DK, deviating from that:**
- Integrated Anti-Panic module for automatic reset of the locking cam.
  - Defined locking cam position. (This cylinder may only be used in locks which have been approved for the cylinder)
  - Base length: 32.5 mm/27.5 mm (outside/inside) up to 65 mm total length

Double knob cylinder for  
gear box locks  
F815DK-X-GS



- Product description as for F815DK, deviating from that:**
- Integrated module with latch function / Locking lever stop for extremely smooth-running gear box locks.
  - Base length: 32.5 mm/27.5 mm (outside/inside) up to 65 mm total length

Dummy knob cylinder  
F802/13-x



- For identification on the outside with electronic locking media.
- Optical Red/Green display via integrated light ring
- Acoustic signal via integrated beeper
- Locking on the outside only with authorised locking media
- Base length: 27.5 mm/27.5 mm (outside/inside) up to 65 mm total length
- Finish: Stainless steel
- Delivery including operating battery and special fastening screw

Anti-Panic dummy  
cylinder  
F802/13-x-AP



- Product description as for F815DK-x-AP, deviating from that:**
- Dummy on the inside, without function

Dummy cylinder for gear  
box locks  
F802/13-x-GS



- Product description as for F802/13, except as follows:**
- Integrated module with latching function / locking cam stop for extremely smooth-running gear box locks.
  - Base length: 32.5 mm/27.5 mm (outside/inside) up to 65 mm total length

## Electronic cylinders MIFARE or LEGIC ID System

Dual cylinder  
F815DK-X-II



**Product description as for F815DK, deviating from that:**

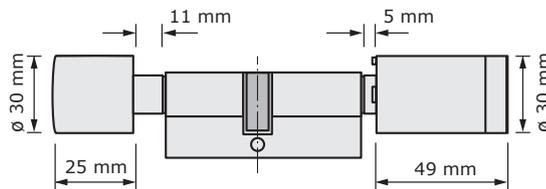
- For identification on both sides with electronic locking media.
- Outside and inside locking only with authorised locking media
- Single sided authorisation control

Knob half cylinder  
F815DK-x-1/2



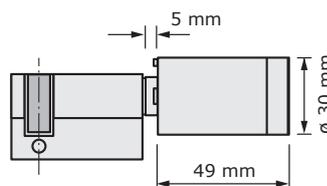
**Product description as for F815DK, deviating from that:**

- Knob half cylinder with electronic knob on the outside
- Locking on the outside only with authorised locking media
- Base length: Axial dimensions from 27,5 mm to 32,5 mm



### Double cylinder extensions

Double cylinder															
Inside (K) / Dimensions in mm (Anti-Panic and GS from 32.5)								(FH variants from 32.5)				Outside (S) / Dimensions in mm			
87.5	...	72.5	...	62.5	...	32.5	27.5	27.5	32.5	...	62.5	...	72.5	...	87.5
Maximum axial dimension 87,5 mm, extensions in 5 mm steps								Maximum axial dimension 87,5 mm, extensions in 5 mm steps							



### Half cylinder extensions

Half cylinder								
(FH variants from 32.5)					Outside (S) / Dimensions in mm			
27.5	32.5	...	62.5	...	72.5	...	87.5	
Maximum axial dimension 87,5 mm, extensions in 5 mm steps								

Ordering example for electronic cylinders:							
Article number – ID System MIFARE / LEGIC	Variant /T; /NET	Length (K) Inside	Length (S) Outside	Weather protection 0 = without	Burglary protection 0 = without	Coating 0 = without	Other options 0 = without
F815DK-M	/TV	32,5	37,5	o	-SB	-HYG	o
F815DK-L	/NET	27,5	32,5	o	-VdS	o	with A-Knob



## Electronic cylinders

Double knob cylinder	
Article number	Description / features
F815DK-L/T	OMEGA FLEX double knob cylinder, ID System LEGIC
F815DK-M/T	OMEGA FLEX double knob cylinder, ID System MIFARE
F815DK-X/T-K	Surcharge for version as double knob cylinder, short version, for use in glass doors. Base length: inside = 22,5 / outside = 27,5
F915DK-x/x	Surcharge for version as fire protection variant up to T90 Base length: inside = 27,5 / outside = 32,5
F615DK-x/x	Surcharge for Swiss round profile version
F615DK-X/T (-K)	Surcharge for version of double knob cylinder in Swiss profile in short version for use in glass doors. Base length: inside = 22,5 / outside = 27,5
Panic lock cylinder	
Article number	Description / features
F815DK-L-AP/T	OMEGA FLEX anti-panic cylinder, LEGIC ID system, Base length: inside = 32,5 / outside = 27,5
F815DK-M-AP/T	OMEGA FLEX anti-panic cylinder, MIFARE ID system, Base length: inside = 32,5 / outside = 27,5
F915DK-x-AP	Surcharge for version as fire protection variant up to T90 Base length: inside = 32,5 / outside = 32,5
F615-DK-x-AP	Surcharge for Swiss round profile version Base length: inside = 32,5 / outside = 27,5
Double knob cylinder for gearbox locks	
Article number	Description / features
F815DK-L-GS/T	OMEGA FLEX double knob cylinder (GS), LEGIC ID system, Base length: inside = 32,5 / outside = 27,5
F815DK-M-GS/T	OMEGA FLEX double knob cylinder (GS), MIFARE ID system, Base length: inside = 32,5 / outside = 27,5
F915DK-X-GS	Surcharge for version as fire protection variant up to T90 Base length: inside = 32,5 / outside = 32,5
F615DK-X-GS	Surcharge for Swiss round profile version Base length: inside = 32,5 / outside = 27,5



## Electronic cylinders

Knob dummy cylinder	
Article number	Description / features
F802/13-L/T	OMEGA FLEX knob dummy cylinder, LEGIC ID system
F802/13-M/T	OMEGA FLEX knob dummy cylinder, MIFARE ID system
F902/13-x	Surcharge for version as fire protection variant up to T90 Base length: inside = 27,5 / outside = 32,5
F602/13-x	Surcharge for Swiss round profile version
Panic lock dummy cylinder	
Article number	Description / features
F802/13-L-AP/T	CES OMEGA FLEX anti-panic dummy cylinder, LEGIC ID system, Base length: inside = 32,5 / outside = 27,5
F802/13-M-AP/T	CES OMEGA FLEX anti-panic dummy cylinder, MIFARE ID system, Base length: inside = 32,5 / outside = 27,5
F902/13-x-AP	Surcharge for version as fire protection variant up to T90 Base length: inside = 32,5 / outside = 32,5
F602/13-x-AP	Surcharge for Swiss round profile version Base length: inside = 32,5 / outside = 27,5
Dummy cylinder for gear box locks	
Article number	Description / features
F802/13-L-GS/T	OMEGA FLEX dummy cylinder for gear box locks, LEGIC ID System Base length: inside = 32,5 / outside = 27,5
F802/13-M-GS/T	OMEGA FLEX dummy cylinder for gear box locks, MIFARE ID system Base length: inside = 32,5 / outside = 27,5
F902/13-X-GS	Surcharge for version as fire protection variant up to T90 Base length: inside = 32,5 / outside = 32,5
F602/13-X-GS	Surcharge for Swiss round profile version Base length: inside = 32,5 / outside = 27,5
Options	
Article number	Description / features
-HISL	Version with locking assistance
342063V	Knob type -J



## Electronic cylinders

Dual cylinder	
Article number	Description / features
F815DK-L-II/T	OMEGA FLEX dual cylinder, LEGIC ID system
F815DK-M-II/T	OMEGA FLEX dual cylinder, MIFARE ID system
F915-DK-II/x	Surcharge for version as fire protection variant up to T90 Base length: inside = 32.5 / outside = 32.5
F615-DK-II/x	Surcharge for Swiss round profile version
Extensions double cylinder	
Please state inside (k) and outside (s) dimensions	Over 65mm total length and up to 125mm total length, one price for all
	Over 125mm up to a total length of 145mm, one price for all
	Over 145mm up to a total length of 175mm, one price for all
Single knob (half) cylinder	
Article number	Description / features
F815DK-L-1/2/T	OMEGA FLEX single knob (half) cylinder, LEGIC ID system
F815-L-1/2/102	OMEGA FLEX single knob (half) cylinder, LEGIC ID system Version for turning levers with sprung locking cam for automatically closing the turning lever
F815DK-M-1/2/T	OMEGA FLEX single knob (half) cylinder, MIFARE ID system
F815-M-1/2/102	OMEGA FLEX single knob (half) cylinder, MIFARE ID system Version for turning levers with sprung locking cam for automatically closing the turning lever
F915DK-x/1/2	Surcharge for version as fire protection variant up to T90 Base length: inside = 10 / outside = 32.5.
F615DK-x/1/2	Surcharge for Swiss round profile version
Options	
Article number	Description / features
-MS	Single knob (half) cylinder version for use in smooth running furniture locks, swivel levers for IT racks, etc.
Extensions	
Please state outside (S) dimensions	Over 32.5mm up to a maximum axial dimension of 62.5mm, one price for all
	Over 62.5mm up to a maximum axial dimension of 72.5mm, one price for all
	Over 72.5mm up to a maximum axial dimension of 87.5mm, one price for all



## Electronic cylinders

Options for electronic cylinders	
Article number	Description
/T	<b>With real-time clock, automatic DST, time and event recording</b> for up to 2,000 events Compatible with OSS-SO Standard 1.1
/NET	<b>Online variant,</b> as described above, but with wireless link to the controller via an additional wireless module. Available from 01.06.2021
348025V	<b>RS485 wireless module</b> for online connection of OMEGA FLEX locking devices with central access controllers of type AccessOne TSG1/SDC or TSG8/Compact
342397V	<b>BAS Radio Module</b> to connect and block locking devices to/from burglar alarm systems
248583V	<b>SMA whip antenna for Wireless Modules URC-RS485</b>
Increased Burglar Protection	<b>BZ+, variant with anti-drilling and -pulling protection</b>
-WP	<b>Weatherproof design</b> for locking cylinders and knobs in accordance with IP65
-SB	<b>Design for security door fittings</b> with enhanced anti-drilling and anti-pulling protection, suitable for fittings with protection against pulling of the plug/doors with tap-drill hole
MPOL	<b>Colour of electronic cylinders,</b> external knob, internal knob (only H or ST knob) and cylinder housing: "Polished brass".
DUBR	<b>Colour of electronic cylinders,</b> external knob, internal knob and cylinder housing: "Bronze", PVD coating.
MMGB	<b>Colour of electronic cylinders,</b> external knob, internal knob and cylinder housing: "Brass", PVD coating.

## Electronic cylinders

Accessories and parts for cylinders	
Description / features	
342068V	Spare electronic knob standard, LEGIC version
342069V	Spare electronic knob fireproof variant, LEGIC
342057V	Spare electronic knob standard, MIFARE version
342070V	Spare electronic knob fireproof variant, MIFARE
342280V	Knob sleeve (with light ring)
342222V	Knob circlip with gasket
EF815DK	<b>Spare double knob cylinder standard</b> (cylinder part only, without electronic knob) Basic length Inside = 27,5 / Outside = 27,5 Additional charges for extensions such as double knob cylinders
EF915DK	<b>Spare double knob cylinder fireproof variant</b> (cylinder part only, without electronic knob) Basic length Inside = 27,5 / Outside = 32,5 Additional charges for extensions such as double knob cylinders
EF815DK-1/2	<b>Spare half cylinder standard</b> (cylinder part only, without electronic knob) Basic length Inside = 10 / Outside = 27,5 Additional charges for extensions such as half cylinders
EF915DK-1/2	<b>Spare half cylinder fireproof variant</b> (cylinder part only, without electronic knob) Basic length Inside = 10 / Outside = 32,5 Additional charges for extensions such as half cylinders
EF802/13	<b>Spare dummy cylinder standard</b> (cylinder part only, without electronic knob) Basic length Inside = 25,5 / Outside = 27,5 Additional charges for extensions such as double knob cylinders
EF902/13	<b>Spare dummy cylinder fireproof variant</b> (cylinder part only, without electronic knob) Basic length Inside = 27,5 / Outside = 32,5 Additional charges for extensions such as double knob cylinders
EF815DK-AP	<b>Spare panic cylinder standard</b> (cylinder part only, without electronic knob) Basic length Inside = 32,5 / Outside = 27,5 Additional charges for extensions such as double knob cylinders
EF915DK-AP	<b>Spare panic cylinder fireproof variant</b> (cylinder part only, without electronic knob) Basic length Inside = 32,5 / Outside = 32,5 Additional charges for extensions such as double knob cylinders
EF815DK-GS	<b>Spare gear box lock cylinder standard</b> (cylinder part only, without electronic knob) Basic length Inside = 32,5 / Outside = 27,5 Additional charges for extensions such as double knob cylinders
EF915DK-GS	<b>Spare gear box lock cylinder fireproof variant</b> (cylinder part only, without electronic knob) Basic length Inside = 32,5 / Outside = 32,5 Additional charges for extensions such as double knob cylinders

EF815DK-II	<b>Spare dual cylinder standard</b> (cylinder part only, without electronic knob) Basic length Inside = 27,5 / Outside = 27,5 Additional charges for extensions such as double knob cylinders
EF915DK-II	<b>Spare dual cylinder fireproof variant</b> (cylinder part only, without electronic knob) Basic length Inside = 27,5 / Outside = 32,5 Additional charges for extensions such as double knob cylinders
EF802/13-AP	<b>Spare panic dummy cylinder standard</b> (cylinder part only, without electronic knob) Basic length Inside = 32,5 / Outside = 27,5 Additional charges for extensions such as double knob cylinders

## Electronic cylinders

Accessories and parts for cylinders	
Description / features	
EF902/13-AP	<b>Spare panic dummy cylinder fireproof variant</b> (cylinder part only, without electronic knob) Basic length Inside = 32,5 / Outside = 32,5 Additional charges for extensions such as double knob cylinders
EF802/13-GS	<b>Spare gear box lock dummy cylinder standard</b> (cylinder part only, without electronic knob) Basic length Inside = 32,5 / Outside = 27,5 Additional charges for extensions such as double knob cylinders
EF902/13-GS	<b>Spare gear box lock dummy cylinder fireproof variant</b> (cylinder part only, without electronic knob) Basic length Inside = 32,5 / Outside = 32,5 Additional charges for extensions such as double knob cylinders
EF815-M-1/2/102	<b>Spare half cylinder</b> (cylinder part only, without electronic knob) Version for turning levers with sprung locking cam for automatically closing the turning lever Basic length Inside = 10 / Outside = 27,5 Additional charges for extensions such as half cylinders
342284V	<b>Spare mechanical knob for OMEGA FLEX cylinder</b>
	<b>Alternative shapes of the inside knob for double knob cylinder:</b>  A knob, H knob, E knob, F knob, CT knob, ET knob, CR knob, J knob,  Extra charge per variant
247615F	<b>Spare Lithium batteries CR2</b> per pack of 5
342184V	<b>Assembly kit F815DK</b> Assembly kit for all OMEGA FLEX cylinder variants, comprising: CES spanner, Torx bit and CES construction key with magnet
342220V	<b>CES Knob-sleeve wrench</b>
342276V	<b>CES spanner for OMEGA FLEX electronic knobs</b>
342394V	<b>Contact cleaning pen</b> for residue free cleaning of knob contacts

Long shield ILS



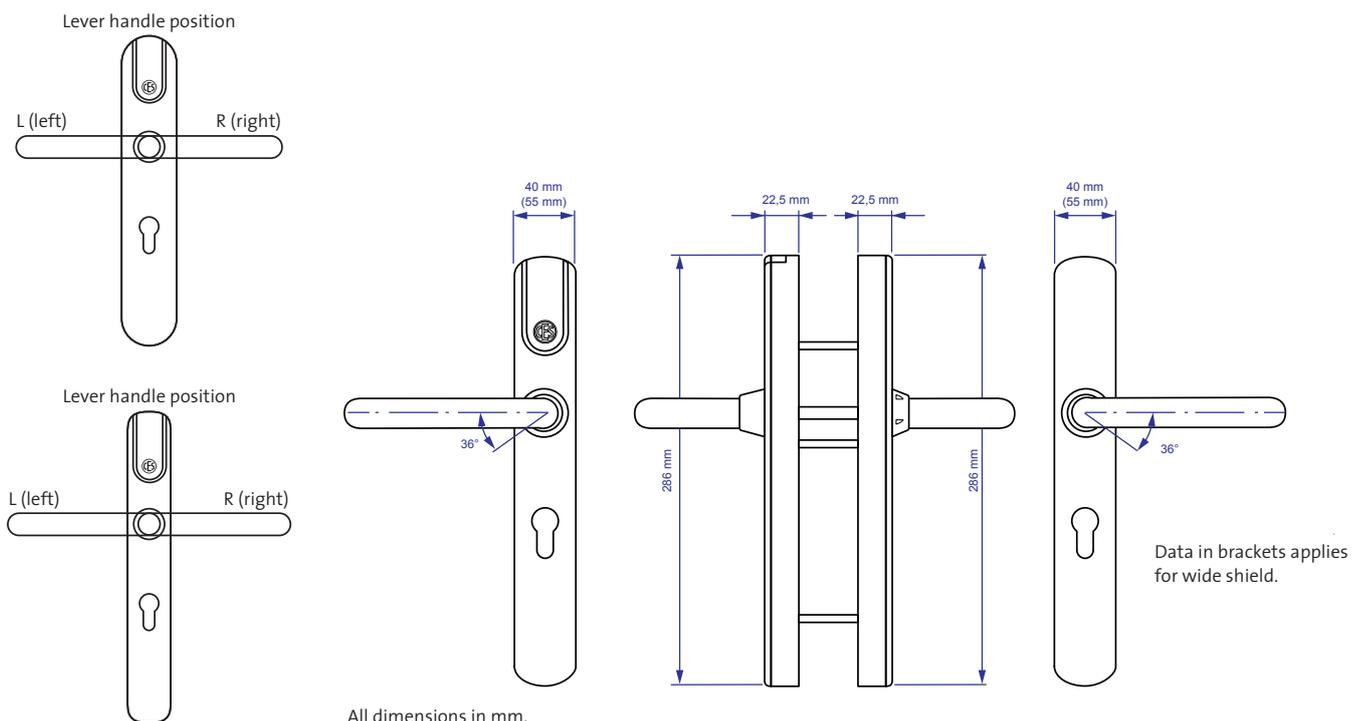
OMEGA FLEX ILS

- Multi-ID-System 13,56MHz, LEGIC and MIFARE
- Variant: Time
- Narrow shield (N) version
- Weather protected version, suitable for use on outside doors.
- Fire protection version, suitable for use on fire doors up to T120
- Suitable for use on doors in accordance with EN 179
- Outside/Inside stainless steel H01 handle on both sides in U shape
- (H11-o Standard)

Ordering example: ILS														
Art. number	Multi-ID-System LEGIC and MIFARE	V Variant /T, /NET	Type Version N, W, O, I	DP Optional drilling position Short shield	HO Opt. Inside handles	HI Lever handle version	HD Lever handle position L, R	CS Opt. Handle set finish	CR Opt. Reader finish o, B, W	DT Door leaf thickness 35...165	CH Cylinder hole PB, PO, PI	D Distance 55...100	SP Square spindle 7...10	SC Protection class 0, 1, 2
ILS		/T	N	S	H11-0	H11-0	L	0	I	55	PB	92	8	2

Figure: Lever handle position

Please specify the lever handle position as shown in the figure with your order.

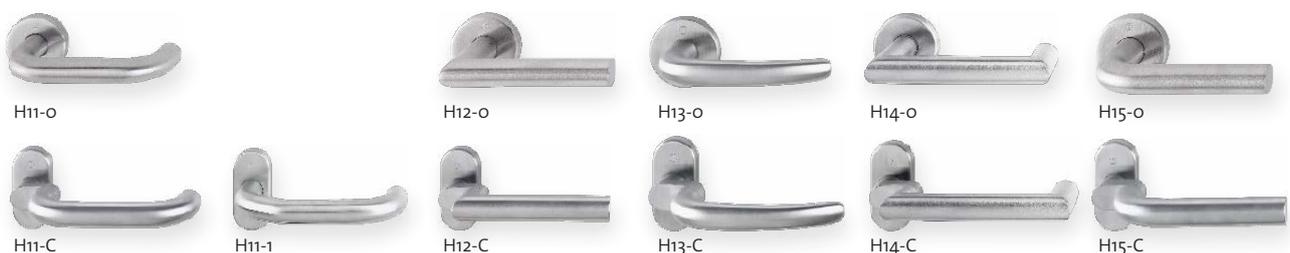


## Electronic handle sets for inside and outside doors

Long Shield ILS	
Article number	Description / features
ILS	<b>OMEGA FLEX ILS</b> Multi-ID-System 13.56 MHz, LEGIC and MIFARE, narrow shield (N), weatherproof, suitable for use on external doors, fire-resistant design, suitable for use on fire doors up to fire-protection rating T120, suitable for use on doors according to EN 179, outside/inside stainless steel with U-shaped lever handle on both sides (H11-o as standard), programming with Master cards or RF-Stick
<b>Variants</b>	<b>Description</b>
/T	<b>With real-time clock, automatic DST, time and event recording</b> for up to 2,000 events. Compatible with OSS-SO Standard 1.1
/NET	<b>Online variant,</b> as described above, but with wireless link to the controller via an additional wireless module. Available from 01.06.2021
348025V	<b>RS485 wireless module</b> for online connection of OMEGA FLEX locking devices with central access controllers of type AccessOne TSG1/SDC or TSG8/Compact
342397V	<b>BAS Radio Module</b> to connect and block locking devices to/from burglar alarm systems
248583V	<b>SMA whip antenna for wireless modules URC-RS485</b>
<b>Optional protective classes</b>	
	<b>Description / features</b>
without	<b>Standard ESo</b>
1	<b>Security class ES2</b> Distance 72 or 92 only
2	<b>Security class SKG***</b> Distance 72 or 92 only

## Electronic handle sets for inside and outside doors

Mechanical Long Shield MLS	
Article number	Description / features
MLS	Mechanical Long Shield used as complementary fitting to the electronic shield ILS, handle lever H11-o
Article number	Description / features
<b>Type</b>	
N	Narrow shield (40 mm)
W	Wide shield (55 mm)
O	Outside wide shield, inside narrow shield
I	Outside narrow shield, inside wide shield
<b>Optional fastening</b>	
S	Optional design for fastening on short shield holes, only centre distance 72, 74, 78, 88, 92, 94, 98 Not for protective classes ES2-L or SKG***
<b>Optional lever handle shapes (extra charge per pair)</b>	
H11-0	Stainless steel, fire-resistant lever handle, U-shaped design, EN 179
H11-1	Stainless steel fire-resistant lever handle, U-shaped design, EN 179, slightly cranked
H11-C	Stainless steel, fire-resistant lever handle U-shaped, cranked design, EN 179
H12-0	Stainless steel, fire-resistant lever handle, straight design
H12-C	Stainless steel, fire-resistant lever handle, straight, cranked design
H13-0	Stainless steel, fire-resistant lever handle, "Ulmer Klinke" design
H13-C	Stainless steel, fire-resistant lever handle, "Ulmer Klinke" cranked design
H14-0	Stainless steel, fire-resistant lever handle, straight design, EN 179
H14-C	Stainless steel, fire-resistant lever handle, straight, cranked design, EN 179
H15-0	Stainless steel, fire-resistant lever handle, semi-circular design
H15-C	Stainless steel, fire-resistant lever handle, semi-circular design, cranked design
F12-0	Stainless steel knob handle, corresponding to FSB o8o2. Only for outdoor use
F13-0	Stainless steel flat lever, corresponding to FSB 115o. Only for outdoor use



## Electronic handle sets for inside and outside doors

ILS options	
Article number	Optional inside handles
PP	Prepared for panic push bar e.g. ECO Schulte EPN 900 IV
PT	Prepared for touch bar
Optional cylinder holes	
00	No hole
PB	Profile cylinder hole on both sides
PO	Profile cylinder hole, outside only
PI	Profile cylinder hole, inside only
Optional centre distances	
Available distances from 55mm up to 100.5 mm	
72	Please specify the measure of distance Distance 72
Optional spindle (square) dimensions	
Available spindle (square) sizes 7 / 8 / 8,5 / 9 / 10	
8	Please specify the square spindle size 8 mm square spindle
Optional door leaf thicknesses in 10 mm steps	
35	35...44
45	45...54
55	55...64
65	65...74
75	75...84
85	85...94
95	95...104
105	105...114
115	115...124
125	125...134
135	135...144
145	145...154
155	155...164
Optional colour, handle set	
0	Standard, stainless steel, brushed

## Electronic handle sets for inside and outside doors

Accessories and spare parts	
Article number	Description / features
343200V	ILS outside shield, narrow shield, as spare part, without lever handle
343201V	ILS outside shield, wide shield, as spare part, without lever handle
343151V	Outside mounting plate, narrow shield
343208V	Outside mounting plate, narrow shield, short shield assembly
343153V	Outside mounting plate, wide shield
343210V	Outside mounting plate, wide shield, short shield assembly
343202V	ILS inside shield, narrow shield
343203V	ILS inside shield, wide shield
343204V	Inside mounting plate, narrow shield, without lever handle
343212V	Inside mounting plate, narrow shield, short shield assembly, without lever handle
343205V	Inside mounting shield, wide shield, without lever handle
343213V	Inside mounting plate, wide shield, short shield assembly, without lever handle
343238V	<b>ILS external battery housing</b> for use with panic push-bars mounting at door leaf incl. battery module Inox
343190V	<b>ILS spare coupling module, lever handles position to the right</b> square spindle 8 mm or 9 mm
343191V	<b>ILS spare coupling module, lever handles position to the left</b> square spindle 8 mm or 9 mm
343052V	<b>ILS spare electronic module</b>
343051V	<b>ILS spare battery module</b>
096067V	<b>ILS battery set,</b> 4 packs with 2 batteries



## Electronic handle sets for inside and outside doors

Accessories and spare parts	
Article number	Description / features
343138V	Union nuts, set, 5 pcs
343207V	CES union nuts, set, 5 pcs, short design
343129V	CES box wrench for union nut
343302V	<b>Assembly set OMEGA FLEX ILS/SIS</b> consisting of: - CES box wrench, - various Allen keys, - mini spanner
343303V	<b>Premium assembly set OMEGA FLEX ILS/SIS</b> consisting of: - CES box wrench, - torque screwdriver SW8, - Allen key SW2, - Allen key SW3, - cross tip screwdriver PH1, - slotted screwdriver 0.4 x 0.2, - mini spanner SW8
343257V	<b>Circlip pliers</b> matching the ILS handle lever circlip
343194V	<b>ILS fixing spare parts assortment</b> 10 standard screws, 5 slotted screws for cable routing and additional equipment Specify door leaf thickness
343249V	<b>ILS spare part square spindle set 7 mm</b> 5 square spindles and accessory each. Specify door leaf thickness
343249V	<b>ILS spare part square spindle set 8 mm</b> 5 square spindles and accessory each. Specify door leaf thickness
343249V	<b>ILS spare part square spindle set 9 mm</b> 5 Square spindles and accessory each. Specify door leaf thickness
343249V	<b>ILS spare part square spindle set 10 mm</b> 5 Square spindles and accessory each. Specify door leaf thickness
343248V	<b>ILS spare screws set assembly plate</b> 30 Screws for fixing the exterior assembly plate
343247V	<b>CEStronics drilling jig with hardened drill bushes</b> for ILS standard fittings PZ72 and PZ92

## Electronic handle sets for inside and outside doors

OMEGA FLEX ILS Replacement handle levers incl. assembly mat.	
Article number	Description / features
343258V H11-0	Stainless steel fire-resistant lever handle, u-shaped, EN179, per piece
H11-1	Stainless steel fire-resistant lever handle, U-shaped design, EN 179, slightly cranked, per piece
343258V H11-C	Stainless steel fire-resistant lever handle, u-shaped, cranked design, per piece
343258V H12-0	Stainless steel fire-resistant lever handle, straight, per piece
343258V H12-C	Stainless steel fire-resistant lever handle, straight, cranked design, per piece
343258V H13-0	Stainless steel, fire-resistant lever handle, "Ulmer Klinke" design, per piece
343258V H13-C	Stainless steel, fire-resistant lever handle, "Ulmer Klinke" design, cranked, per piece
343258V H14-0	Stainless steel fire-resistant lever handle, straight, EN 179, per piece
343258V H14-C	Stainless steel fire-resistant lever handle straight, EN 179, cranked, per piece
343258V H15-0	Stainless steel, fire-resistant lever handle, semi-circular design, per piece
343258V H15-C	Stainless steel, fire-resistant lever handle, semi-circular design, per piece
343277V F12-0	Stainless steel turning door knob, per piece
343258V F13-0	Stainless steel flat lever, corresponding to FSB 1150. Only for outdoor use



H11-0



H12-0



H13-0



H14-0



H15-0



H11-C



H11-1



H12-C



H13-C

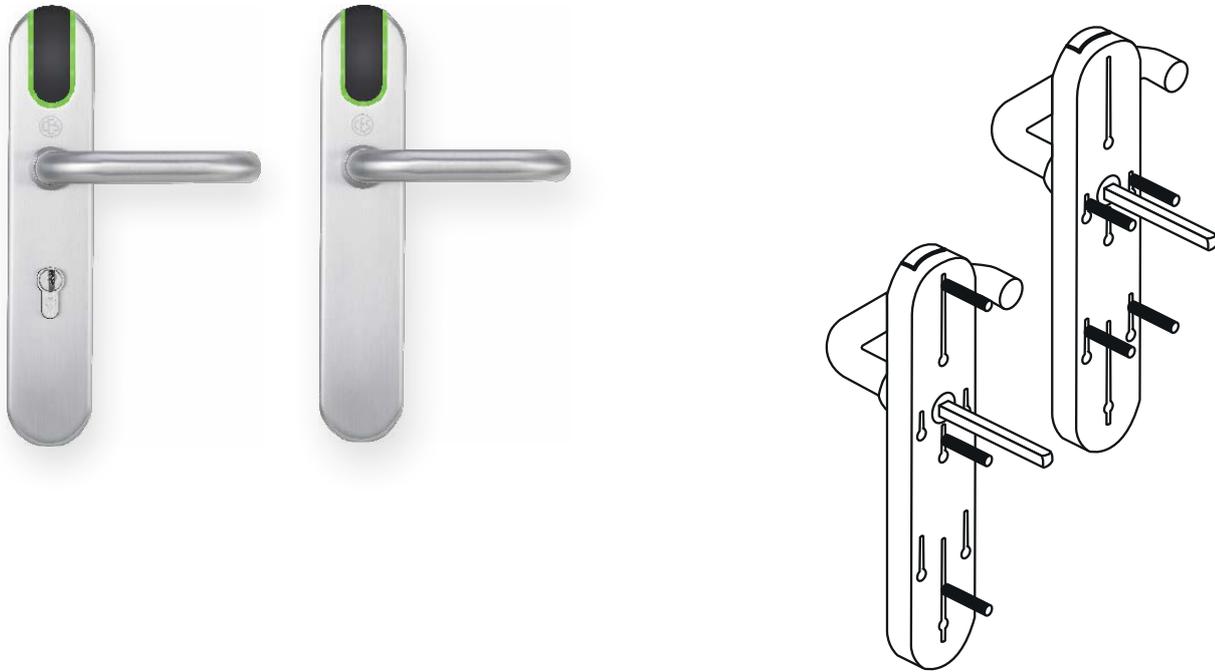


H14-C



H15-C

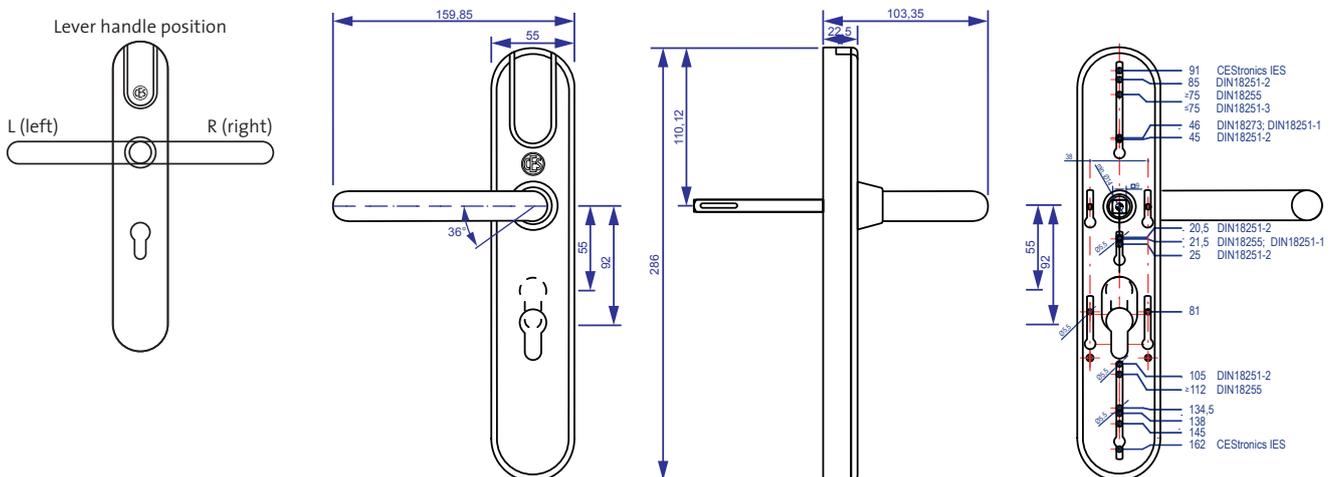
## Long Shield ILS-I



Ordering example, ILS-I										
Art. number	Multi-ID-System LEGIC and MIFARE	V	HT	HD	CS	CR	DT	CH	D	SP
		Variant	Lever handle version	Lever handle position	Opt. Handle set finish	Opt. Reader finish	Door leaf thickness	Cylinder hole	Distance	Square spindle
		/T, /NET		L, R	o, 1	B, W, S	40 ... 114 mm	PB, PO, PI	55 ... 92	7 ... 10
ILS-I		/T	H11-0	L	0	B	55	PB	92	8

### Figure: Lever handle position

Please specify the lever handle position as shown in the figure with your order.



All dimensions in mm.

## Electronic handle sets for inside doors

Long Shield ILS-I	
Article number	Description / features
ILS-I	<p><b>OMEGA FLEX ILS-I</b>            LEGIC and MIFARE 13,56 MHz multi-ID system            Wide shield version            Suitable for use as a replacement handle set on solid doors            Can be fitted without drilling, both on existing rosette holes or long shield holes            /T version with time profiles and event storage            Stainless steel with external U-shaped lever handle (standard H11-o)            Without counter handle            Programming via master media or RF-Stick</p>
Variants	Description
/T	<p><b>With real-time clock, automatic DST, time and event recording for up to 2,000 events.</b>            Compatible with OSS-SO Standard 1.1</p>
/NET	<p><b>Online variant</b>            as described above, but with wireless link to the controller via an additional wireless module.            Available from 01.06.2021</p>
348025V	<p><b>RS485 wireless module</b>            for online connection of OMEGA FLEX locking devices with central access controllers of type AccessOne TSG1/SDC or TSG8/Compact</p>
342397V	<p><b>BAS Radio Module</b>            to connect and block locking devices to/from burglar alarm systems</p>
248583V	<p><b>SMA whip antenna</b>            for Wireless Modules URC-RS485</p>
Article number	Description / features
343417V	<p><b>Mechanical long shield one side fitting</b>            used as a counter handle to the ILS-I electronic handle set, lever handle H11-o.</p>

## Electronic handle sets for inside doors

Optional cylinder holes	
Article number	Description / features
00	No hole
PB	Profile cylinder hole on both sides
PO	Profile cylinder hole, outside only
PI	Profile cylinder hole, inside only
Optional centre distances	
Article number	Description / features
	Available distances: 55 mm to 92 mm
72	Please specify the measure of distance Distance 72
Optional spindle (square) dimensions	
Article number	Description / features
	Available spindle (square) sizes 7 / 8 / 8,5 / 9 / 10
8	Please specify the square spindle size 8 mm square spindle
Optional lever handles	
Article number	Description / features
H11-0	Stainless steel, fire-resistant lever handle, U-shaped design, EN 179
H11-1	Stainless steel fire-resistant lever handle, U-shaped design, EN 179, slightly cranked
H12-0	Stainless steel, fire-resistant lever handle, straight design
H13-0	Stainless steel, fire-resistant lever handle, "Ulmer Klinke" design
H14-0	Stainless steel, fire-resistant lever handle, straight design, EN 179
H15-0	Stainless steel, fire-resistant lever handle, semi-circular design

## Electronic handle sets for inside doors

Optional door leaf thicknesses	
Article number	Description / features
35	35...54
55	55...74
75	75...94
95	95...114
Optional colour, handle set	
Article number	Description / features
0	Standard, stainless steel, brushed
Accessories and spare parts	
Article number	Description / features
343404V	ILS-I outside shield, as a spare part without lever handle
343402V	ILS-I outside assembly plate, distances 55 to 72 mm
343403V	ILS-I outside assembly plate, distances 78 to 92 mm
343238V	ILS external battery housing for use with panic push-bars mounting at door leaf incl. battery module Inox
343190V	ILS spare coupling module, lever handles position to the right, square spindle 8 mm or 9 mm
343191V	ILS spare coupling module, lever handles position to the left, square spindle 8 mm or 9 mm
343050V	ILS spare coupling actuator
343052V	ILS spare electronic module
343420V	ILS-I spare part mounting set 10 x M4 standard screws and mounting sleeves State door thickness.
343421V	ILS-I spare part mounting set 10 x M5 standard screws and mounting sleeves State door thickness.
343414V	ILS-I assembly plate replacement screws set 30 screws for mounting the external assembly plate
Colour electronic module	
Article number	Description / features
B	Black RAL 9011
S	Silver RAL 9006

## 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)

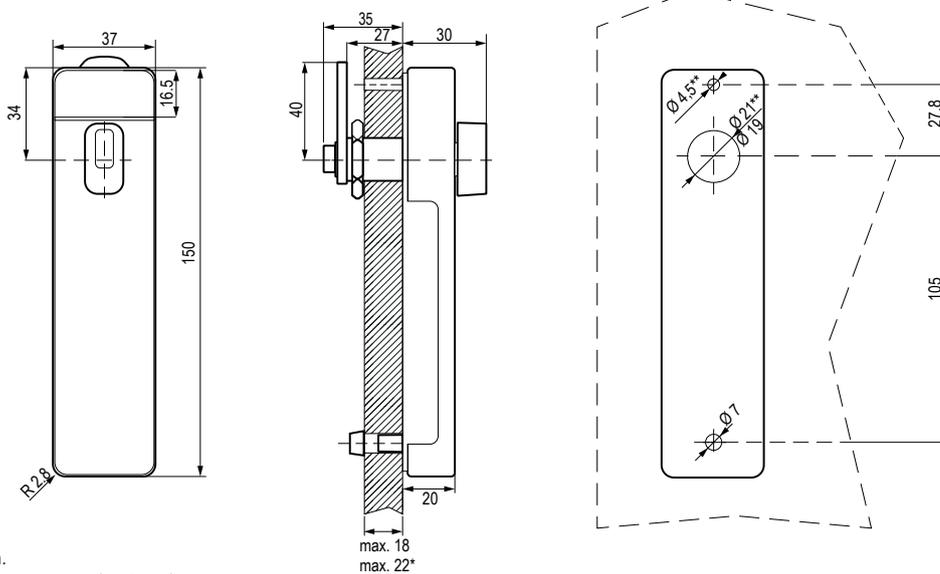
A cabinet can be locked with every authorised locking medium. It can only be opened with the same locking medium.

### 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	<b>OMEGA FLEX electronic furniture lock</b> 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	<b>With real-time clock, automatic DST, time and event recording for up to 2,000 events.</b> Compatible with OSS-SO Standard 1.1
/NET	<b>Online variant</b> as described above, but with wireless link to the controller via an additional wireless module. Available from 01.06.2021
348025V	<b>RS485 wireless module</b> for online connection of OMEGA FLEX locking devices with central access controllers of type AccessOne TSG1/SDC or TSG8/Compact
248583V	<b>SMA whip antenna</b> for wireless modules URC-RS485
<b>Lever options</b>	
<b>Special lever</b>	
DSVS	prepared for espagnolette locks
<b>Optional door thicknesses</b>	
345205V	Set of 10 x step nut, 18-22 mm
345206V	Set of 10 x step nut adapter washer, 18-22 mm
<b>Optional colours</b>	
B	Black RAL 9005
W	White RAL 9003
<b>Optional accessories</b>	
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	<b>Numbering: sequential number</b> applied on small labelling plates by laser engraving, per item
345214V	<b>Numbering and customer logo</b> applied on small labelling plates by laser engraving, per item Customer logo must be provided in a scalable file (.ai or .eps)
345215V	<b>User name laser engraving</b> applied on small labelling plates per item. The user name must be provided in a scalable file (.ai or .eps)
345216V	<b>Initial setup costs for customer logo or user name</b>
345217V	<b>Repeat setup costs for customer logo or user name</b>



## Stand-Alone offline wall terminals

Stand-Alone offline wall terminals	
Article number	Description / features
WT-I-OSD	<p><b>OMEGA FLEX wall terminal WT-I</b>            wall terminal, compact design,            version MIFARE,            without housing, assembly only,            for fitting on existing 60 mm in-wall switch box.            Programming via Master and RF-Stick.            Integrated LEDs for optical red/green signalling,            integrated beeper for acoustic signalling</p>
WT-II-OSD	<p><b>OMEGA FLEX wall terminal WT-II</b>            wall terminal comprising separate reader and control unit, for high-security applications            version MIFARE            without housing, assembly only,            for fitting on existing 60 mm in-wall switch box.            Programming via Master and RF-Stick.            Integrated LEDs for optical red/green signalling,            integrated beeper for acoustic signalling.            Max. cable length 20 m with JY(ST)Y2x2xo.6,            without connection cable.            Reader on the outside</p>
WT-I-OSL	<p><b>OMEGA FLEX wall terminal WT-I</b>            wall terminal, compact design,            version Legic            without housing, assembly only,            for fitting on existing 60 mm in-wall switch box.            Programming via Master and RF-Stick.            Integrated LEDs for optical red/green signalling,            integrated beeper for acoustic signalling</p>
WT-II-OSL	<p><b>OMEGA FLEX wall terminal WT-II</b>            wall terminal comprising separate reader and control unit, for high-security applications            version Legic,            without housing, assembly only,            for fitting on existing 60 mm in-wall switch box.            Programming via Master and RF-Stick.            Integrated LEDs for optical red/green signalling,            integrated beeper for acoustic signalling.            Max. cable length 20 m with JY(ST)Y2x2xo.6,            without connection cable.            Reader on the outside</p>
342196V	<p><b>Reader for WT-II</b>            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</p>
345120V	<p><b>Mounting frame for CES wall terminals with design housing,</b>            for mounting wall terminals in back boxes            including fixing screws</p>
345103V	<p><b>Fitting frame for CES wall terminals or readers</b>            in CES design housing            for mounting on plain surfaces without existing wall switch boxes or to achieve weather resistance (IP55) of wall terminals</p>

Wall terminal housings	
Variants	Description / features
	<p>Housings can be used for both WT-I and WT-II.</p> <p>Extra charges are per housing.                      Select one housing for the WT-I.                      Select one housing for each side of the WT-II.</p>
/T	<p><b>With real-time clock, automatic DST, time and event recording for up to 2,000 events.</b>                      Compatible with OSS-SO Standard 1.1</p>
342397V	<p><b>BAS Radio Module</b>                      to connect and block locking devices to/from burglar alarm systems</p>
Standard	<p><b>CES design housing</b>                      Flush-mounting with metal frame                      including fixing screw                      Black or white</p>
Standard for surface mounting	<p><b>CES design housing</b>                      Cover with metal frame                      including fixing screw and surface-mounted frame                      Weatherproof wall terminal version, IP55                      Black or white</p>
345001V	<p><b>CES design housing as a spare part</b>                      Cover with metallic frame                      incl. fixing screw                      Black or white</p>
345120V	<p><b>Mounting frame for CES wall terminals with design housing,</b>                      for mounting wall terminals in back boxes                      including fixing screws</p>
345103V	<p><b>Fitting frame for CES wall terminals or readers</b>                      in CES design housing                      for mounting on plain surfaces without existing wall switch boxes or to achieve weather resistance (IP55) of wall terminals</p>



## Stand-Alone offline wall terminals

Door intercoms	
Article number	Description / features
Siedle Vario	WT in Siedle Vario housing, silver-metallic (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	Description / features
Telecom-Behnke	WT in Telecom-Behnke „Series 20“ design
-ALOP	Stainless steel look without frame
	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-o, CD500 alpine white
Reader options	
Article number	Description / features
247724V	Power supply unit for WT wall terminals Power supply unit for DIN rail assembly in secured areas 230V AC / 12 V DC (max. 800 mA) Suitable for connection to additional consumers (e.g. electric strike) Finish: Light grey

Ordering information				
Article number	Variant	Housing I (Outside)	Housing II (Inside)	Quantity
WT-I	/T	CES standard	...	2
WT-II	/T	Siedle Vario/white RAL 9016	CES standard	3

## 13.56 MHz / 868 MHz transponder media



Electronic-Keys	
Article number	Description / features
ESL-C	<b>OMEGA LEGIC key</b> solid black, LEGIC ATC 4096 transponder, for all available CES locking systems, with serial number for identification
	<b>supplied with new locking system</b>
	<b>supplied as spare or replacement key</b>
ESM-C	<b>CES Electronic key MIFARE DESFire</b> Monochrome black, transponder: EV2 8k for all available CES locking systems, including serial number for identification
	<b>Supplied with the new system</b>
	<b>Supplied as replacement key</b>



342558V	<b>CES electronic locking medium clip</b> 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 = 10 pieces
342559V	<b>CES electronic locking medium clip</b> Mifare DESFire EV2 8k ID technology Selection of colour When delivered: not mounted, to be clipped onto existing CES keys with a round key head. 1 PU = 10 pieces
342560V	<b>CES electronic locking medium clip</b> 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 = 10 pieces
342561V	<b>CES electronic locking medium clip</b> 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 = 10 pieces
	<b>Surcharge for labelling</b>
OMEGA FLEX Premium key fobs	
342541V	<b>Premium key fob MIFARE DESFire EV2</b> 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
342505V	<b>Hybrid key fob DESFire EV2 and EM4200,</b> Premium Line Minimum order quantity = 50 pieces 1 PU = 10 pieces



## 13.56 MHz / 868 MHz transponder media

OMEGA FLEX ID cards	
Article number	Description / features
342237V	<b>ID card LEGIC advant</b> neutral white including consecutive numbering ATC4096-MP transponder version 1 PU = 10 pcs.
342545V	<b>DESFire EV2 8k version</b> 1 PU = 10 pcs.
348018V	<b>UHF locking medium, encrypted</b> 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
<b>Options:</b>	
<b>Coding of locking media</b> Application to OSS segment per locking medium / badge	
<b>Coding of locking media in accordance with customer instructions.</b>	
<b>Card with additional HICO or LOCO magnetic stripe</b>	
<b>Card with additional bar code</b>	
<b>Card in combination with different transponder systems</b>	
<b>We shall gladly offer customized printing of your ID cards.</b>	
<b>Compatible ID card creation system</b> consisting of printer with encoder, web cam and accessories Only to be used with software extension "348120V ID Card Creation"	
Master Media	
348127	<b>AccessOne System-Master</b>
348128	<b>AccessOne Start-Master</b> for starting the Offline RF programming
348129	<b>AccessOne URC Master</b> To start the pairing between URC and the offline locking devices

## Services

Services	
Article number	Description / features
D001	<p><b>Electronic locking plan</b> 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.</p>
D002	<p><b>Device programming</b> Programming of the electronic devices at the Velbert plant based on the user specifications. Per locking device</p>
D003	<p><b>Media programming</b> Programming of the electronic media (card, key, key fob) at the Velbert plant based on the user specifications Per key/medium</p>
D011	<p><b>Special numbering of locking media</b> 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</p>
D101	<p><b>User Training/system instruction</b> 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</p>
D102	<p><b>Admin training course/instruction in system use</b> 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</p>
D005	<p><b>Working time</b> One hour corresponds to 6 units of work, per unit of work</p>
D006	<p><b>Travelling expenses</b> Per driven kilometre</p>
D007	<p><b>Travelling time</b> One hour corresponds to 6 units of work, price per unit of work</p>
D008	<p><b>Special hardware/software solutions</b> Special adaptation of devices/interfaces and special functions</p>

Services	
Article number	Description / features
D009	<p><b>Project planning and design</b> Project planning of mechatronic systems by CES system engineers</p> <p>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</p> <p>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><b>Specifications/documentation</b> Creation of a system-specific set of specifications based on the customer requirements.</p> <p>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</p> <p>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><b>Commissioning</b> Commissioning of mechatronic systems by CES system engineers.</p> <p>Scope: Commissioning of the locking devices already fitted by the customer according to CES specifications.</p> <p>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).</p> <p>Per day, incl. travelling expenses</p>

## Software service agreement for end users

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



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