EMKA Beschlagteile

SPECIAL CATALOGUE

SALES WORLDWIDE

92 %
FROM IN-HOUSE PRODUCTION

Electronic Locking Systems for Cabinets and Enclosures

Icons

The icons on the catalogue pages show the special properties of the items presented there.


Inside the sealing


Outside the sealing


Concealed hinge


Prominent hinge


Lift-off version hinge


Hinge limited lift-off version


Hinge for single cabinets


Hinge for in-line cabinets with single door


Hinge for in-line cabinets with double door


Door RH version


Door LH version


Door RH or LH version

Protection class e.g. IP 65


PUR sealing foam

Compression specification of lock


Article grounded or grounding possible

ELM Electronic Locking & Monitoring System application


Resistance class 2 tested acc. to DIN EN 1630


2D nut usable

2D adjustable product

3D adjustable product


Assembly without tool


clip-in product


Product with graffiti resistant paint

meets hygiene requirements acc. to DIN EN 1672-2

meets hygiene requirements acc. to DIN EN ISO 14159

Shock and vibration test according to DIN EN 61373

Plastic flame-resistant according to classification UL94

Stainless steel

AISI 303	resp. 1.4305
AISI 304	resp. 1.4301
AISI 316	resp. 1.4401
AISI 316 Ti	resp. 1.4571

List of contents

About EMKA

The EMKA GROUP is world market leader for locks, latches, hinges and seals used in switch and control cabinets.

For more than 40 years, the company has been active across all sectors in the fields of industry (switch and control cabinets, HVACR systems, mechanical engineering) and transport (railway and commercial vehicles, caravans, etc.) with conventional and electronic locking solutions.

The overall range comprises more than 30,000 catalogue and special articles, which are developed, manufactured, refined and assembled at eleven production sites in Germany, France, Great Britain, Spain, Bosnia-Herzegovina, Serbia, China, India and Indonesia.

In one of the two new plants in Bosnia, the company produces around 900 moulds for injection moulding and die casting every year - both for own production and for external customers.

With 2,100 employees, EMKA serves over 36,000 customers in 60 countries worldwide.
In 2022, the company achieved turnover of over 350 million euros.

EMKA - Ingenious Locking Technology.


EMKA
Beschlagteile
WirtschaftsWoche
WELT MARKT FÜHRER
Champion
2023
EMKA Beschlagteile
Verschlüsse, Scharniere und Dichtungen für Schalt- und Steuerungsschränke für Elektronik und Elektrotechnik
Universität St.Gallen

Worldwide first choice

2,100 employees

Own production at 11 international locations

Represented in 60 countries worldwide

More than 30,000 catalogue and special products

More than 36,000 customers worldwide

Henriville, France

Birmingham, UK

Arnedo, Spain

Goražde (Plant 1), Bosnia-Herzegovina

Goražde (Plant 2), Bosnia-Herzegovina

Company headquarters Velbert, Germany

Wuppertal, Germany

Tianjin, China

Bhilai, India

Mionica, Serbia

Bandung, Indonesia

- Company headquarters
- Production site
- Subsidiary
- Agency

Modular program

The product program by EMKA has a consistently modular structure.

No matter whether made of stainless steel, zinc, aluminium, plastic or rubber, the products meet national as well as international standards, e.g. resistance class RC2 and are available up toprotection class IP 69K.



Locks and Latches



Locking Systems



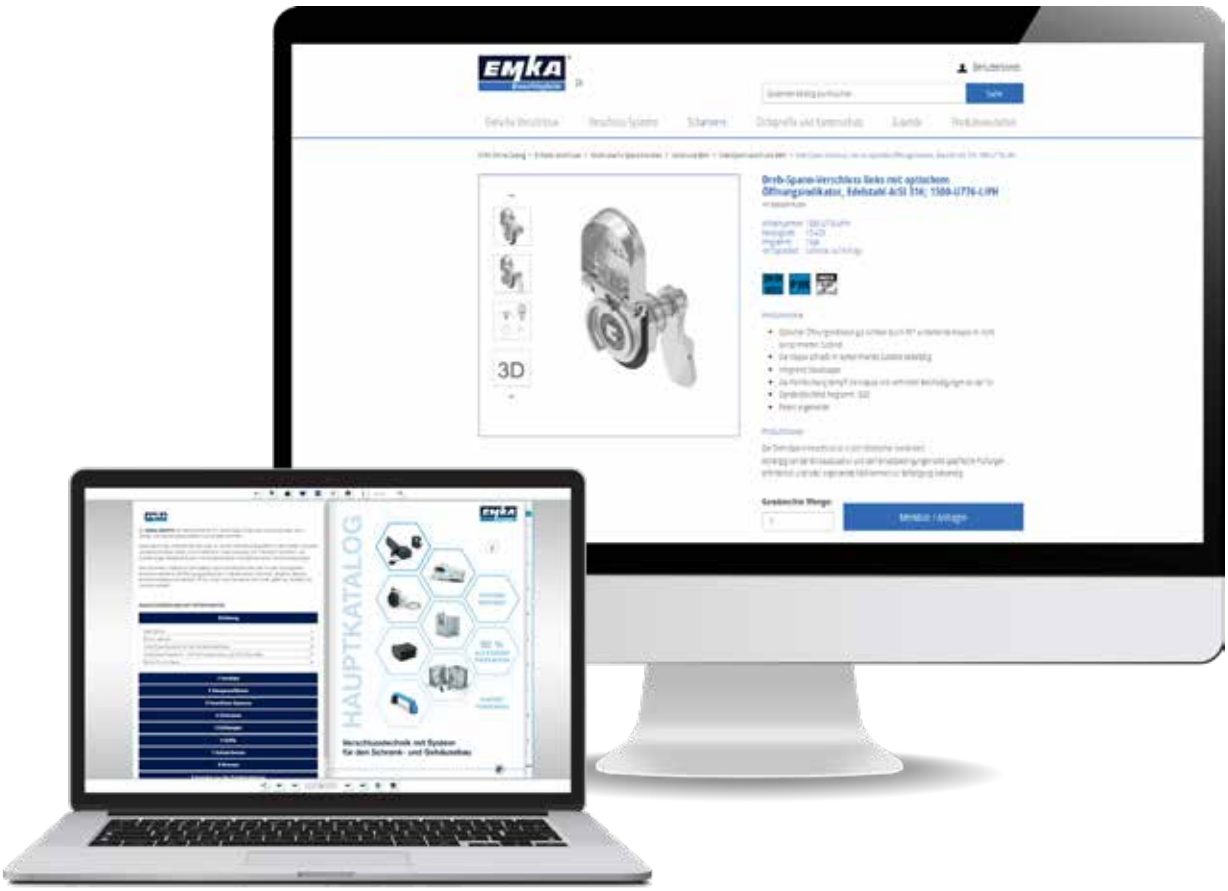
Hinges



Sealing Profiles and Edge Protection



Accessories



Everything at a glance

This special catalogue contains a selection of electronic and electromechanical products.

You will find many more products in the interactive **EMKA main catalogue** as well as in the **online product database**.

There you also have the possibility to download CAD data in the international exchange formats STEP and IGES as well as detailed product data sheets.

View interactive EMKA main catalogue

View online product database


Monitoring
Service
Access control

Rack Management by EMKA

The risen requirements of modern IT infrastructure in data centres demand a maximum of physical security.

The Rack Management System by EMKA guarantees unambiguous logging and backtracking due to its personified access control down to cabinet level.

Moreover, the system monitors all physical parameters in the rack and thus increases the operational reliability of the entire installation.

It consists of a database-driven control software, high-capacity modules and electromechanical handles. The modular structure and the standardised connection technology enable a simple installation and a fast start-up. Wireless handles reduce the time and effort for mounting significantly and cut the investment costs.

The functionality of the system can be enhanced and complemented any time by adding further modules. The integration into already existing security systems can be realised without any difficulty.

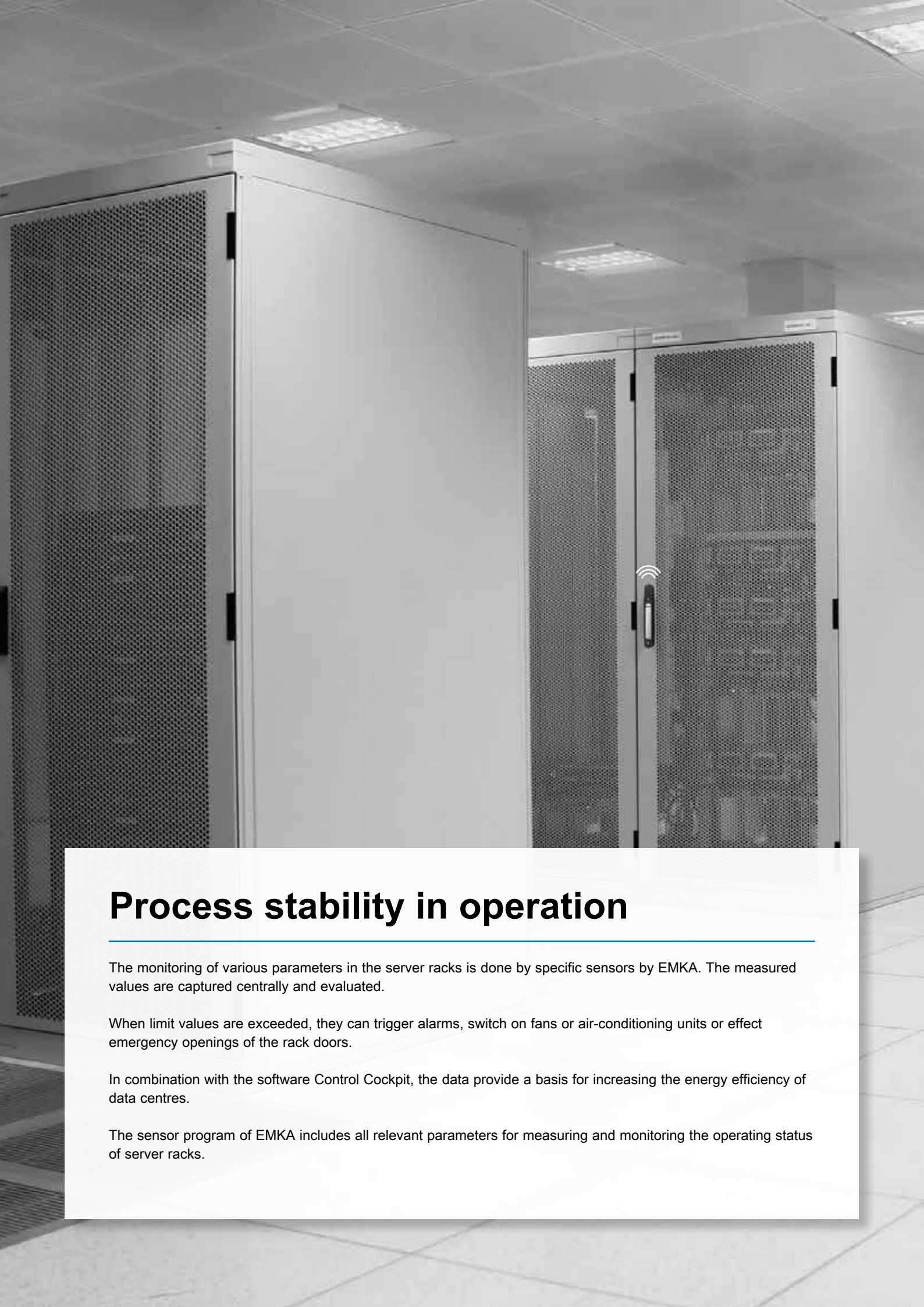
Control access reliably

Synchronised hardware and software components ensure a maximum of security and transparency for the access control.

The database-driven software Control Cockpit takes care of the central operation, monitoring and configuration. A high-capacity wireless network enables the direct access to a virtually unlimited number of server racks.

The complete logging documents all access-relevant information and guarantees the possibility of unambiguous backtracking of the events. In case of irregularities, alerts are automatically transmitted.

Everything for your security.



Process stability in operation

The monitoring of various parameters in the server racks is done by specific sensors by EMKA. The measured values are captured centrally and evaluated.

When limit values are exceeded, they can trigger alarms, switch on fans or air-conditioning units or effect emergency openings of the rack doors.

In combination with the software Control Cockpit, the data provide a basis for increasing the energy efficiency of data centres.

The sensor program of EMKA includes all relevant parameters for measuring and monitoring the operating status of server racks.

Danger

Smoke detector and vandalism sensor for signalling in case of immediate danger

Power

Sensors for electrical parameters (current, voltage) for measuring and optimising the power consumption

HVACR

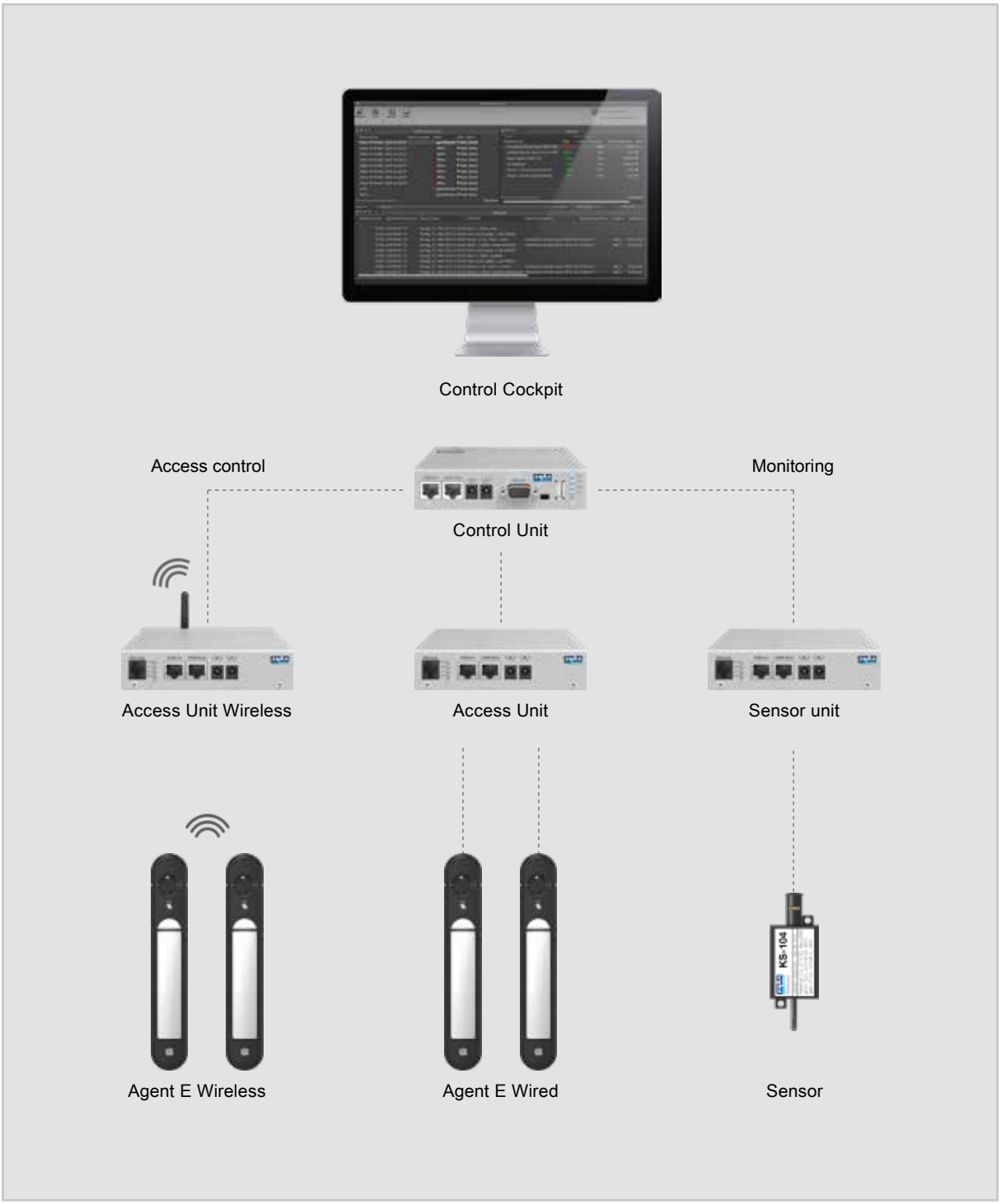
Temperature, humidity and leakage sensor for climatic parameters

Rack Management Systems

The Rack Management System by EMKA consists of the central Control Unit and the connected components for access control and rack monitoring.

Due to its modular structure it is scalable for any application: from a single cabinet in stand-alone operation up to centrally administered server racks in data centres.

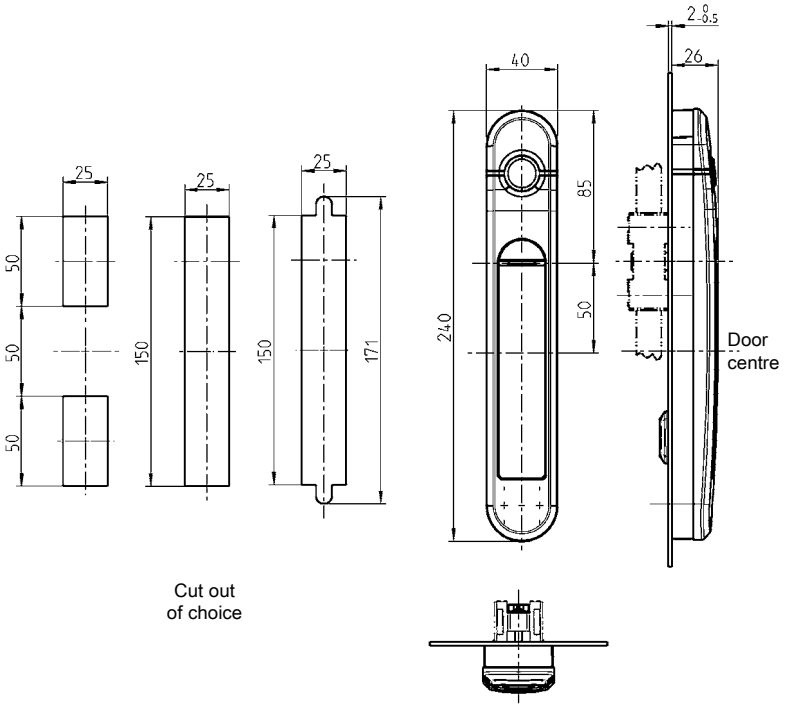
EMKA is as yet the only company offering a rack management system with wireless access control. It is very flexible and cost-saving with regard to its installation.



List of contents

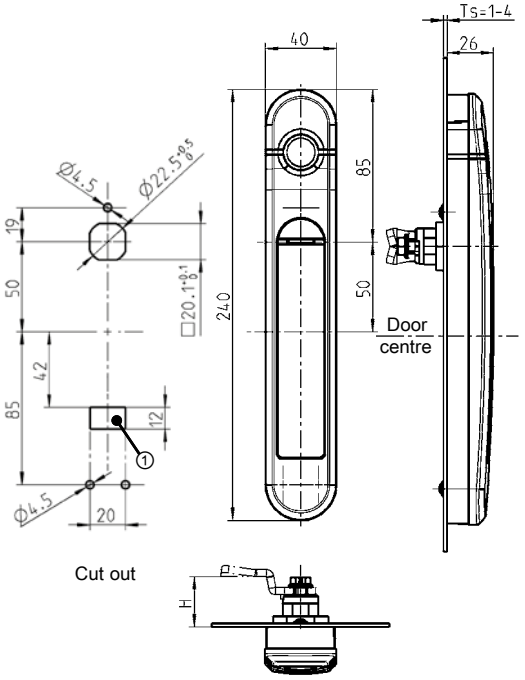
Swinghandle Agent E Wireless

Swinghandle for rod control or bearing bush



Cut out of choice

Swinghandle for cam



Cut out

Required for
① = Door contact

Swinghandle Agent E Wireless - functions Dc = door contact

Operation mode	Authentication	Power	Opening standard	Opening optional	Connection option
Wireless	RFID card (125 kHz or 13.56 MHz)	Battery	immediately	--	Dc

max. 16 Access Units Wireless per Control Unit ≙ 1,200 handles Agent E Wireless

Agent E Wireless

Access Unit Wireless

Control Unit

Control Cockpit

The Agent E Wireless is still the only swinghandle with wireless communication. Due to its wireless an thus cost-saving mounting it is most suitable for retrofitting in data centres. The authentication is done via RFID cards. A highly-efficient power management guarantees a long battery life.

Features

- Wireless communication for data exchange via wireless network with Access Units Wireless (industrial standard according to national regulations)
- One Control Unit can actuate up to 1,200 handles Agent E Wireless using Access Units Wireless in one wireless network
- The authentication can be effected by RFID cards with 125 kHz or 13.56 MHz. Remote opening is always possible in addition
- Extremely energy-efficient battery operation (battery life min. 3 years)
- 4 eyes principle for authentication with 2 authorized RFID cards
- The handle has a connection option for a door contact
- An emergency power function is possible with the integrated USB port
- Agent E Wireless is most suitable for retrofitting due to its wireless mounting
- The installation in cabinets of different manufacturers is solved with various adapters (on request)

Swinghandle Agent E Dish polyamide GF black; handle and shaft zinc die powder-coated white aluminium; 2 batteries; assembly and operating instructions		
③ **Wireless type for all EU countries plus Switzerland and Norway**	**for rod control or bearing bush**	**for cam**
Wireless with RFID 125 kHz	on request	on request
Wireless with RFID 13.56 MHz	3000-U911-41	3000-U911-42
RFID Card		
125 kHz		3000-87
13.56 MHz		3000-88
Adapter set for bearing bush; adapter plate polyamide GF black; adapter m.s. precision casting zinc-plated; fixing material m.s. zinc-plated		
for Ts 1.0 - 3.0		3000-U104-01
Adapter set for retrofitting		
for various cabinet types		on request

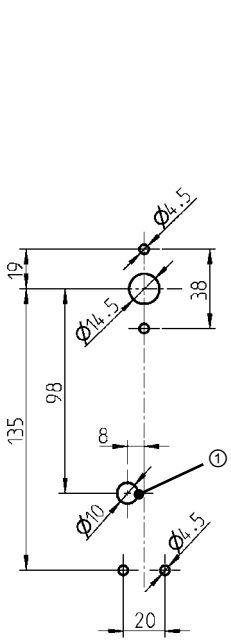
③ **Note:**
Wireless versions for other countries on request

Further parts see page
– Access Unit Wireless E1-320
– Door contact E1-510

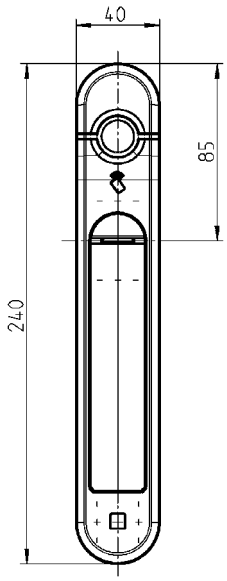
Further parts see main catalogue
– Rod control 3YA-120
3YA-140
– Bearing bush 3YB-120
– Cam (GH = 18) 1C-120

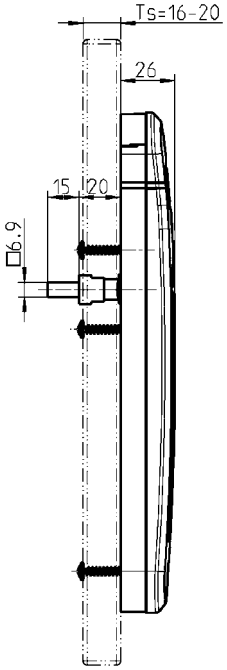
Swinghandle Agent E Wireless

Swinghandle for furniture doors



Cut out





Required for
① = Door contact

Swinghandle Agent E Wireless - functions					Dc = door contact
Operation mode	**Authentication**	**Power**	**Opening standard**	**Opening optional**	**Connection option**
Wireless (wireless network)	RFID card (125 kHz or 13.56 MHz)	Battery	immediately	--	Dc

max. 16 Access Units Wireless per Control Unit ≙ 1,200 handles Agent E Wireless

Agent E Wireless

Access Unit Wireless | Control Unit | Control Cockpit

The Agent E Wireless is still the only swinghandle with wireless communication. Due to its wireless an thus cost-saving mounting it is most suitable for retrofitting in data centres. The authentication is done via RFID cards. A highly-efficient power management guarantees a long battery life.

Features

- Wireless communication for data exchange via wireless network with Access Units Wireless (industrial standard according to national regulations)
- One Control Unit can actuate up to 1,200 handles Agent E Wireless using Access Units Wireless in one wireless network
- The authentication can be effected by RFID cards with 125 kHz or 13.56 MHz. Remote opening is always possible in addition
- Extremely energy-efficient battery operation (battery life min. 3 years)
- 4 eyes principle for authentication with 2 authorized RFID cards
- The handle has a connection option for a door contact
- An emergency power function is possible with the integrated USB port
- Agent E Wireless is most suitable for retrofitting due to its wireless mounting
- The installation in furniture doors, in conjunction with different lock manufacturers, is solved with various adapters (on request)

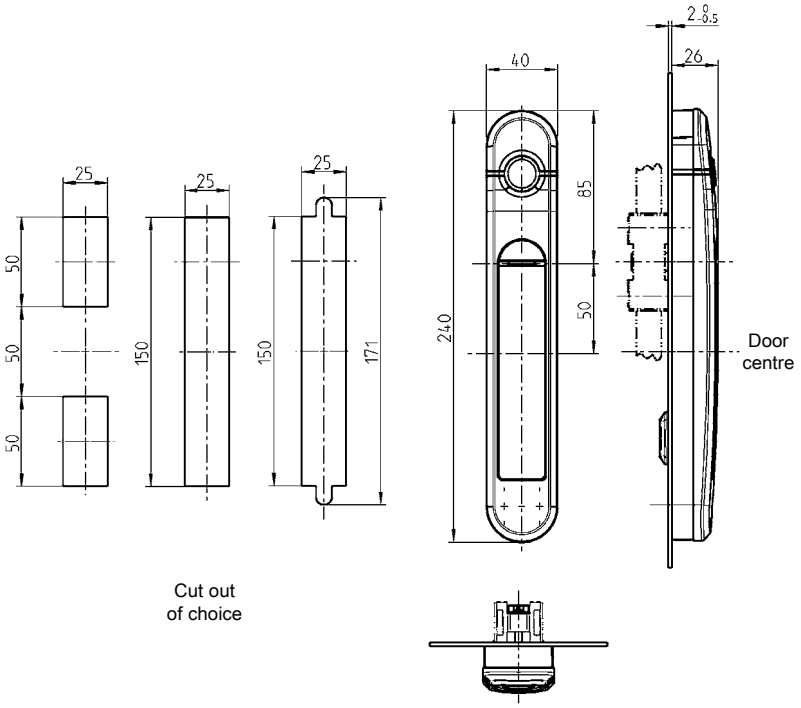
Swinghandle Agent E Dish polyamide GF black; handle and shaft zinc die powder-coated white aluminium; 2 batteries; assembly and operating instructions	
③ **Wireless type for all EU countries plus Switzerland and Norway**	**for furniture doors**
Wireless with RFID 125 kHz	on request
Wireless with RFID 13.56 MHz	3000-U911-48
RFID Card	
125 kHz	3000-87
13.56 MHz	3000-88
Adapter AISI 303 for Agent E for furniture doors	
for □ 7 mm, 15 mm long	3000-115
other adapters	on request

③ **Note:**
Wireless versions for other countries on request

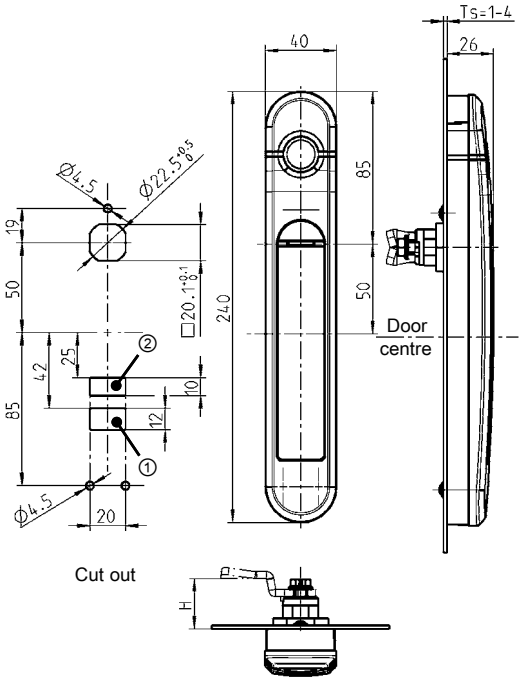
Further parts see page
– Access Unit Wireless E1-320
– Door contact E1-510

Swinghandle Agent E Wired

Swinghandle for rod control or bearing bush



Swinghandle for cam



Required for
① = Door contact
② = Connection cable

Swinghandle Agent E Wired - Functions Dc = door contact

Operation mode	Authentication	Power	Opening standard	Opening optional	Connection option
Wired (cable network)	RFID card (125 kHz or 13.56 MHz)	Cable	Push button	--	Dc

max. 32 Access Units per Control Unit ≙ max. 64 handles Agent E Wired

Agent E Wired is the cabled version of the electromechanical swinghandle program.
It enables a central and complete logging of events.
The authentication is done via RFID cards.

Features

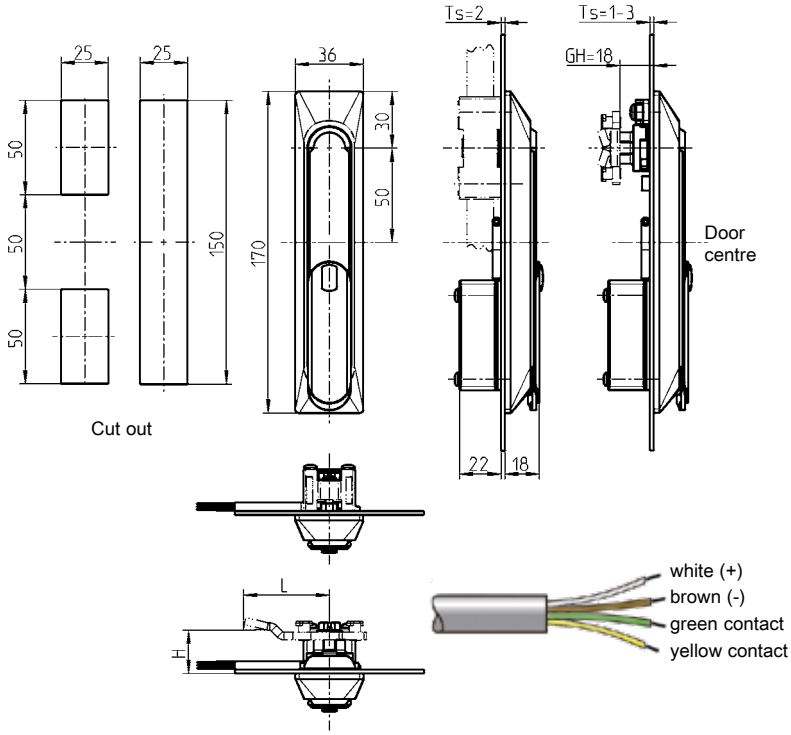
- Authentication by 13.56 kHz RFID cards (125 MHz on request)
  Remote opening is always possible in addition
- 2-factor authentication with pin code (with keypad, see E1-350) and RFID card
- The handle has a connection option for a door contact
- The Wiegand interface for standardized transmission of RFID card data enables integration into third-party systems
- Two handles Agent E Wired can be connected to one Access Unit
- Max. 32 Access Units can be administered by one Control Unit
- An emergency opening is possible by using the integrated USB port
- The installation in cabinets of different manufacturers is solved with various adapters (on request)

Swinghandle Agent E Dish polyamide GF black; handle and shaft zinc die powder-coated white aluminium; connection cable 4 m, with RJ45 plug; assembly and operating instructions		
	for rod control or bearing bush	**for cam**
Wired with RFID 125 kHz	on request	on request
Wired with RFID 13.56 MHz	3000-U910-41	3000-U910-42
RFID Card		
125 kHz		3000-87
13.56 MHz		3000-88
Adapter set for bearing bush; adapter plate polyamide GF black; adapter m.s. precision casting zinc-plated; fixing material m.s. zinc-plated		
for Ts 1.0 - 3.0		3000-U104-01
Adapter set for retrofitting		
for various cabinet types		on request
USB adapter cable		
USB Standard-A on USB Micro-B		on request

Further parts see page
– Access Unit E1-320
– Door contact E1-510

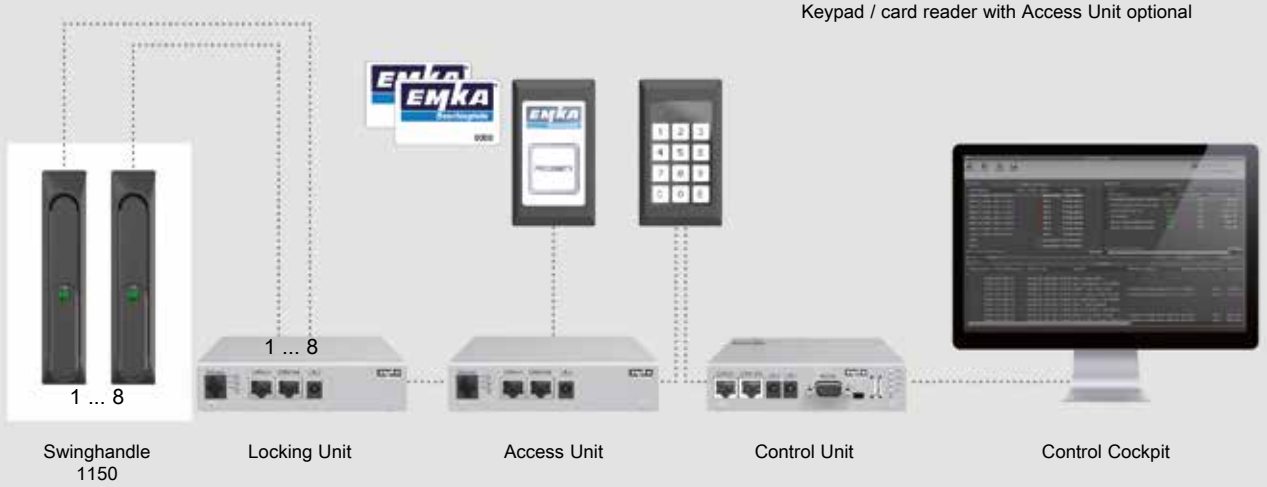
Further parts see main catalogue
– Rod control 3YA-120
3YA-140
– Bearing bush 3YB-120
– Cam (GH = 18) 1C-120

Swinghandle 1150 with electromechanical release and emergency opening



Swinghandle 1150-U56-x / 1150-U58-x					Dc = door contact
Operation mode	**Authentication**	**Power**	**Opening standard**	**Opening optional**	**Connection option**
Wired	Central RFID card reader (125 kHz or 13.56 MHz)	by Locking Unit	release, actuate	Key	Dc; external
Wired	Central keypad	by Locking Unit	release, actuate	Key	Dc; external

per Control Unit max. 64 Locking Units ≡ max. 512 handles or door contacts
Keypad / card reader with Access Unit optional

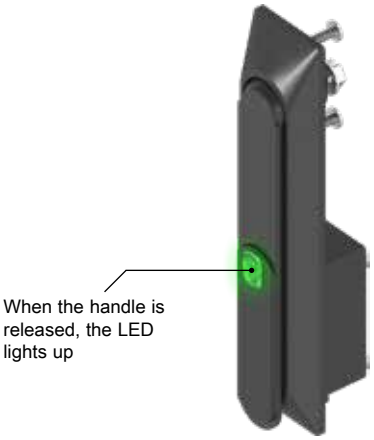


This handle is suitable for locking indoor cabinets.
It is released by applying a voltage signal of 12 V or 24 V DC.
After pushing the handle briefly into the dish, it can be opened.

IP40 ELM

Features

- Integrated LED for signalling a released handle
- Potential-free reed contact for remote monitoring of handle status
- Emergency opening with key possible in case of power failure
- Dust cap will be destroyed in case of an emergency opening via key and needs to be replaced
- Connection option to Locking Unit 3000-U32-x or Access Unit 3000-U47-x, connector plug optional



Swinghandle 1150
Handle zinc die black powder coated; dish and cap polyamide GF black;
cylinder cover Bio-Flex black; shaft AISI 303,
round cylinder with stainless steel cap and dust cap; solenoid with electronics;
reed contact and LED; connecting cable (4 m);
fixing material m.s. zinc-plated.
Each round cylinder has one silver steel key with grip polyamide GF black.

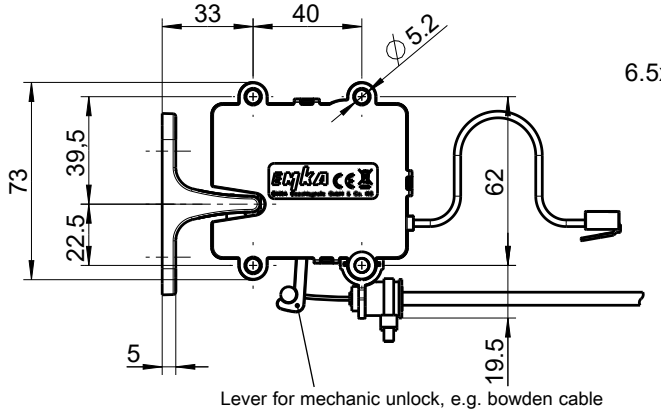
Contact switching power: 48 VDC, 0.5 A

	keyed EK 333	keyed different
Handle 12 V, for rod control or cam	1150-U56	1150-U56-V
Handle 24 V, for rod control or cam	1150-U56-01	1150-U56-01V
Cylinder cover Bio-Flex black (spare part)		
		1150-B33

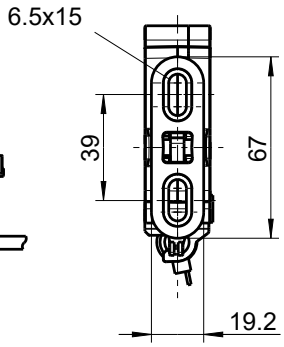
Further parts see page
– Access Unit E1-330
– Locking Unit E1-340

Further parts see main catalogue
– Cams (GH = 18) 3YC-120
– Rod control 3YA-110
3YA-120
3YA-140
– Spare key 8B-140

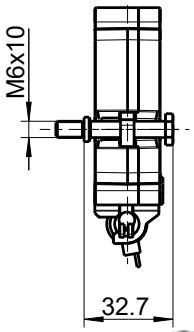
Single-point latch with emergency opening



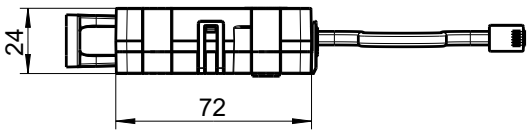
Single-point latch with catch



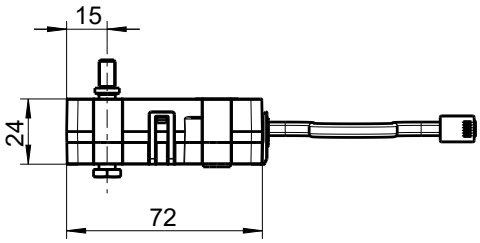
Single-point latch with locking bolt

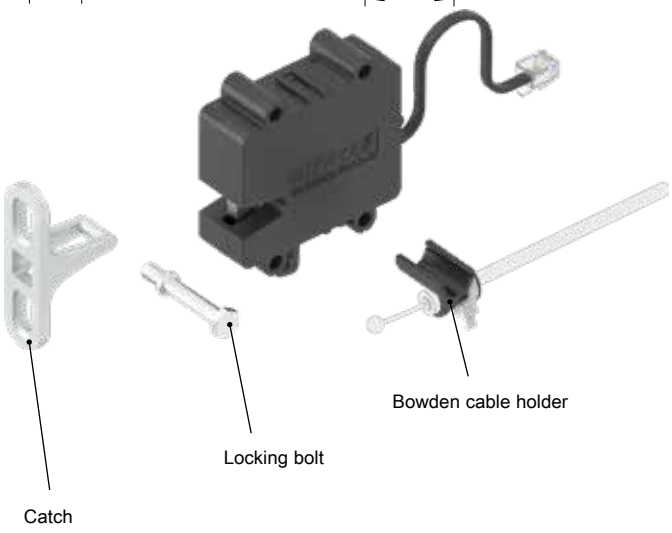


Single-point latch with catch



Single-point latch with locking bolt





Single-point latch 3000-U301-x			Dc = door contact		
Operation mode	**Authentication**	**Power**	**Opening standard**	**Opening optional**	**Connection option**
Wired	Central RFID card reader (125 kHz or 13.56 MHz)	by Locking Unit	immediately	Bowden cable	--
Wired	Central keypad	by Locking Unit	immediately	Bowden cable	--

per Control Unit max. 64 Locking Units ≡ max. 512 single point latches
Keypad / card reader with Access Unit optional

The single-point latch is used in various applications as concealed lock.

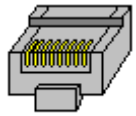
The following types are available:

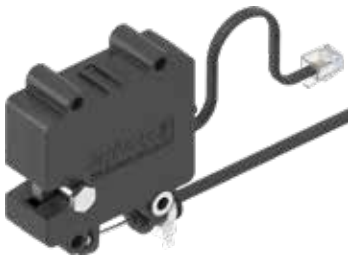
- Basic = latch is opened by switching on the power supply and locked as soon as the door is closed again
- Basic delayed Re-Lock = latch is opened by switching on the power supply and remains in the position 'open' as long as the power supply is applied
- Energy store = latch opens when switching off of the power supply (alternative to magnetic locks)
- Battery backup = latch is permanently powered and opened via electrical pulse; with UL508 approval, Ex approval to UL HazLoc; protection class IP 55

Features

- Wide supply voltage range from 9 ... 32 V
- Potential-free switch for remote monitoring of status / door status
- Emergency opening possible via bowden cable in case of power failure
- Connection possible to Locking Unit 3000-U32-x or Access Unit 3000-U47-x; adapter cable optional
- UL508, Ex (UL HazLoc), IP 55 (only with version „Battery Backup“)

Wiring information for

RJ45 plug front view	PIN	Basic Basic delayed Re-Lock Energy store	Battery backup	Wire colours
 87654321	2	—	V -	white
	3	Contact	V -	black
	4	V -	V -	red
	5	V +	Release +	green
	6	Contact	Open collector output	yellow
	7	—	V +	blue

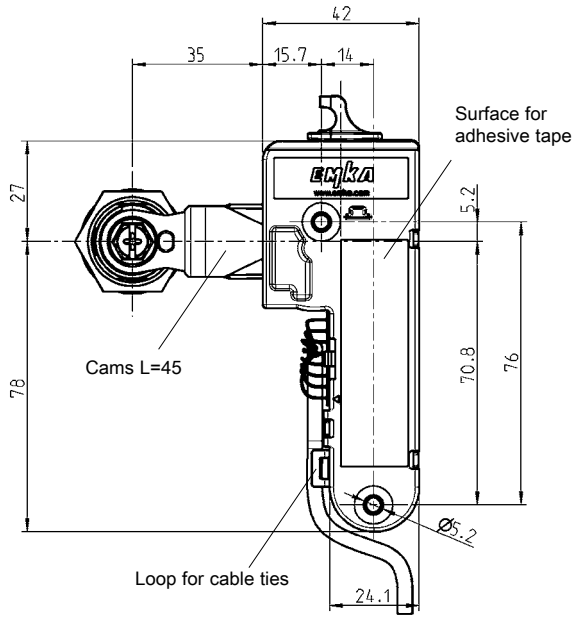


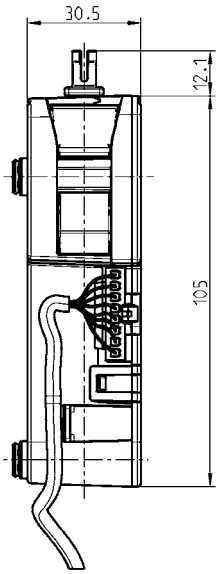
Single-point latch with integrated status contact Housing polyamide GF black; ratch and pawl steel lubricant varnished; cable 150 mm with RJ45 plug; catch zinc die (1 piece enclosed); with assembly and operating instructions		
Power supply:	9 ... 32 VDC, 100 mA	
Contact switching power:	max. 30 VDC, min. 1 mA, max. 100 mA	
Basic		3000-U301-01
Basic delayed Re-Lock; with delayed re-lock		3000-U301-02
Energy store; automatic unlock in case of power failure		3000-U301-03
Battery backup, UL508, Ex (UL HazLoc), IP 55		3000-U301-04
Catch material of your choice		
AISI 316		3000-78-PH
Zinc die		3000-78-01KA
Striker bolt m.s. zinc plated		
		3000-102-JB
Mounting kit for bowden cable polyamide GF black; washer m.s. zinc plated and cable tie		
		3000-U303

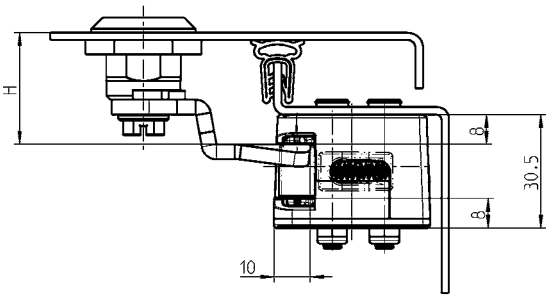
On request:
– Mounting plate
– Bowden cable

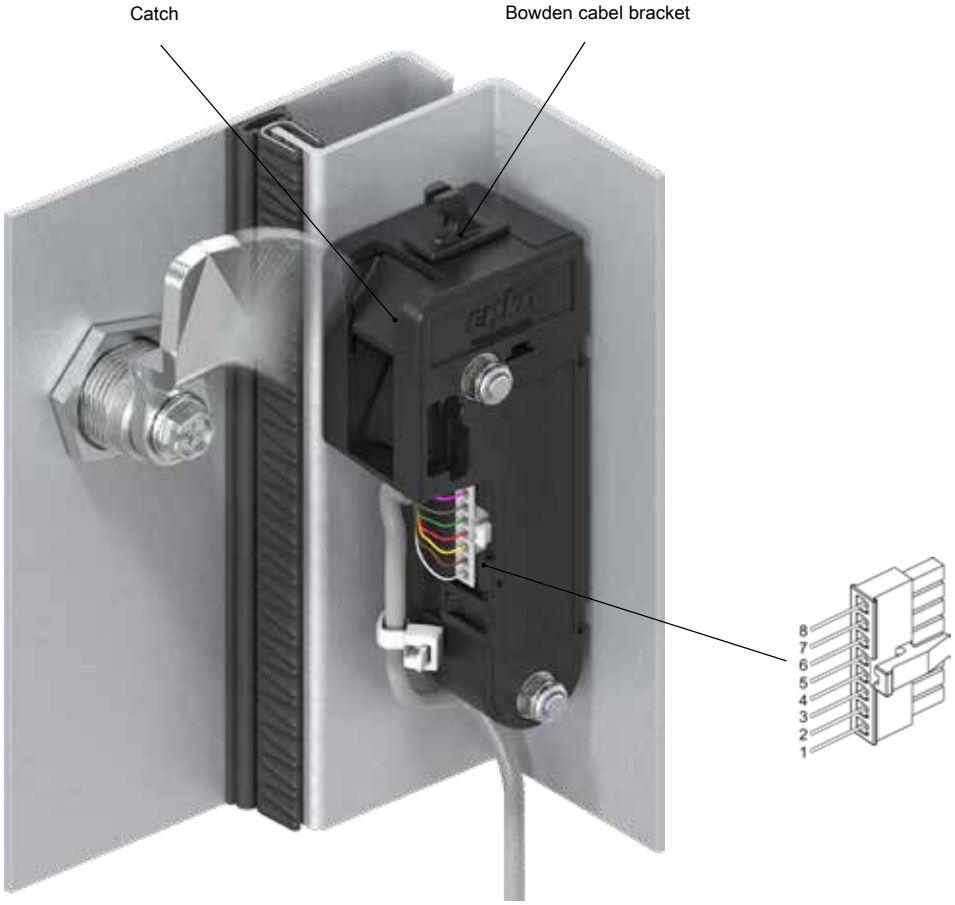
Further parts see page
– Access Unit E1-330
– Locking Unit E1-340

eCam
Electromechanical lock for cams









The electromechanical lock for cams is used as concealed lock in different applications.

The following types are available:

- Basic: lock for cam without status feedback, UL508 certified
- Basic Plus: lock for cam with status feedback, UL508 certified
  Open collector output A1 indicates if cam is engaged in the catch
- Energy store: lock for cam with status feedback and automatic unlock of the catch in case of power failure, UL508 certified
  Open collector output A1 indicates if cam is engaged in the catch
- Safety: Type approved as "position switch, design type 1" acc. to EN ISO 14119 (Machine Directive) and as "monitoring device with performance level d" acc. to EN ISO 13849

Features

- Wide supply voltage range from 9 ... 32 V
- Open collector output for remote monitoring of lock status
- Emergency opening possible via bowden cable in case of power failure

Wiring information for version

PIN	Basic	Basic Plus	Energy store	Safety
1	—	Output A1	Output A1	NC R1
2	—	—	—	NC R2
3	Control input	Control input	Control input	Control input
4	V -	V -	V -	V -
5	V +	V +	V +	V +
6	—	—	—	—
7	—	Door contact A1	Door contact A1	COM R2
8	—	Door contact A2	Door contact A2	COM R1

eCam Housing, catch, cam disc, plunger polyamide GF; magnet; gear motor; with springs; assembly and operating manual	
Power supply: 9 ... 32 VDC, max. 100 mA, stand-by 3 mA	
Output signal Open collector (max. 30 V, 50 mA)	
Basic: lock for cam without status feedback	3000-U304-01
Basic Plus: lock for cam with status feedback	3000-U304-02
Energy store: lock for cam with status feedback	3000-U304-03
Safety: lock for cam with status feedback	3000-U304-04
Connection cable 2 m with connector and open cable ends	
	3000-111
Bowden cable holder	
	on request

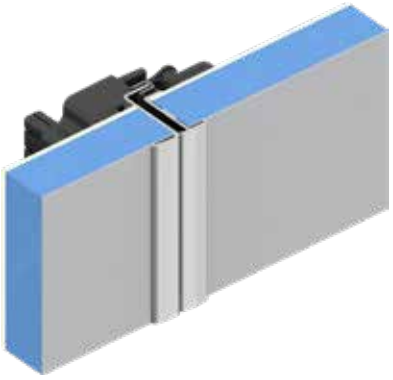
Further parts see page
– Power supply plug E1-510
– Further components on request

Further parts see main catalogue
– Cam 1B-140
3YA-820
3YA-840
3YB-420
3YB-440
3YC-120
3YC-140

Suitable quarter turns, escutcheons or swinghandles can be found on the catalogue pages of cams.

ePush Lock
Electromechanical push lock

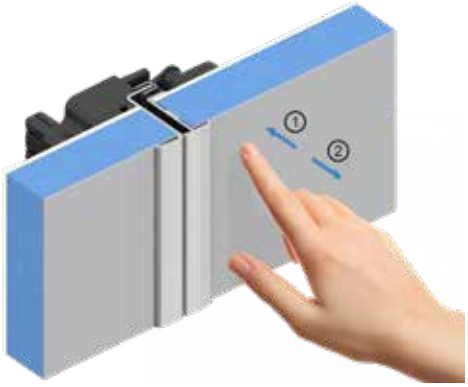
The electromechanical push lock ePush Lock is used as an invisible lock from the outside in different applications.



Locked and invisible from the outside

Closed

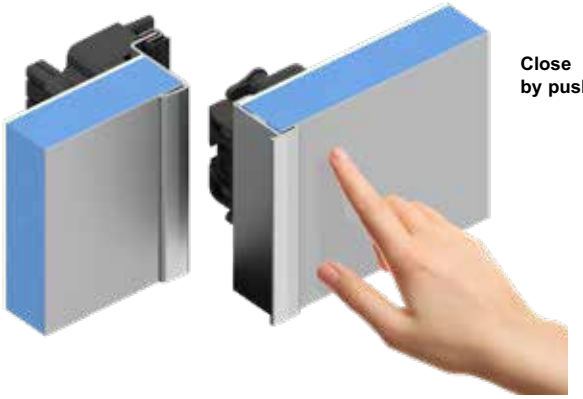
Opening



Open by pushing

Open

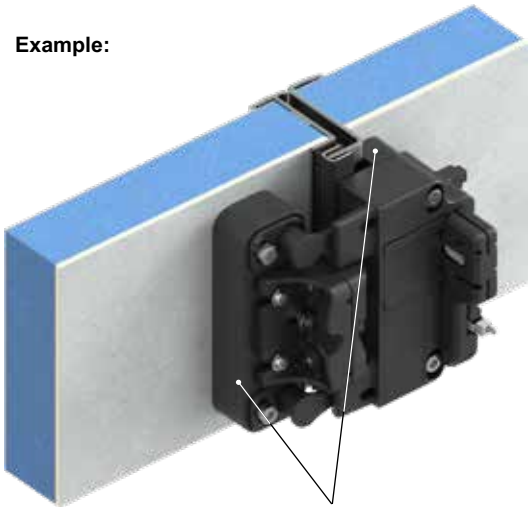
Closing

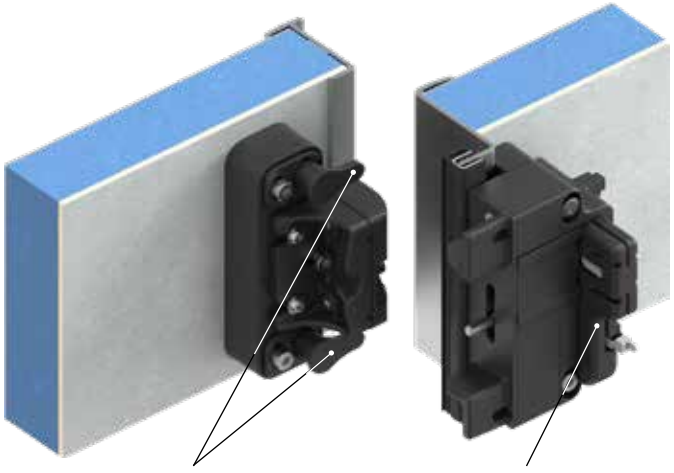


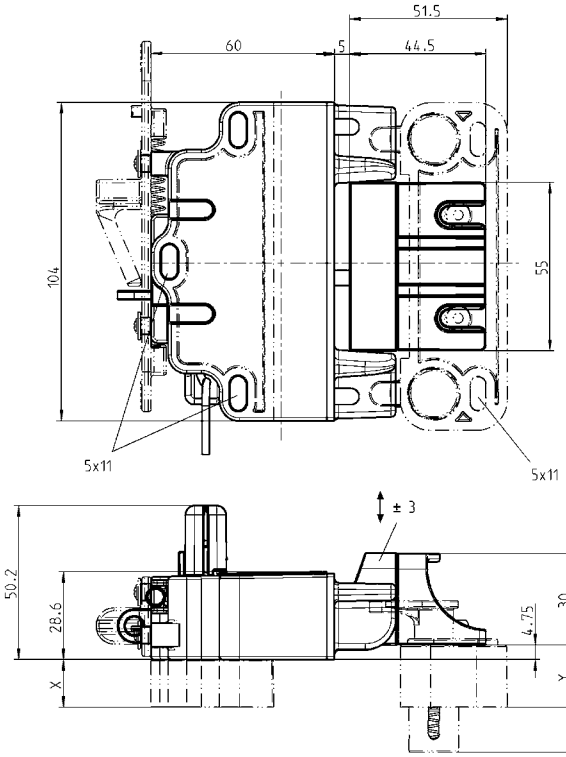
Close by pushing

Closed

Example:

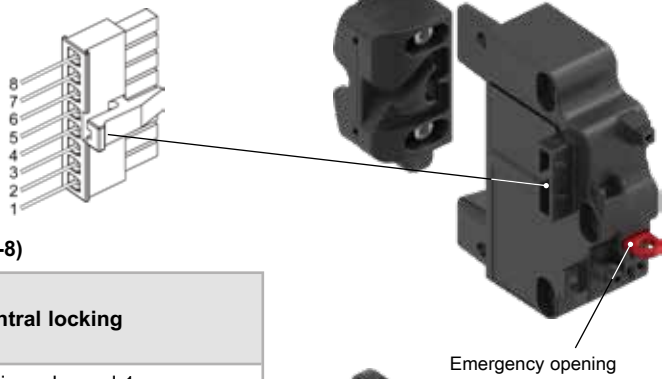






Features

- Wide supply voltage range from 9…32V DC, 200mA
- Digital output max. 26V, 30mA
- Open collector output for monitoring of lock status and door status
- Emergency opening possible via bowden cable in case of power failure



Emergency opening

Turn for emergency opening

Wiring information for version (plug type: Micro MATE-N-LOK 1445022-8)

PIN	Button / Switch, central locking + permanent current (equal voltage level)	Central locking
1	Locking	Locking, channel 1
2	Unlocking	Unlocking, channel 1
3	—	—
4	V +	—
5	V -	V -
6	—	—
7	Lock status	Lock status
8	Door status	Door status

ePush Lock Housing, catch, cap and cam disc polyamide GF black; locking pin AISI 303; emergency opening slider polyamide GF red; spring AISI 301; screw m.s zinc-plated; assembly and operating instructions	
Lock with emergency opening for central locking	3000-U600-01
Lock with emergency opening for switch / button	3000-U600-02
Lock with emergency opening for central locking and turn for emergency opening	3000-U600-03
Lock with emergency opening for switch / button and turn for emergency opening	3000-U600-04
Lock for manual operation	3000-U600-05
Ejector Housing polyamide GF black; plunger POM black; spring AISI 301	
	3000-U600
Cable cover polyamide GF black	
	3000-112-10
Spacer for lock housing and catch polyamide GF black	
Dimension X and Y by choice of customer; X = 13 - 32.25 ; Y = 4.75 - 40	on request
Connection cable 2 m with connector and open wire ends	
	3000-111

Note:
Mirror image version of catch, lock housing and turn for emergency opening on request

Further parts see page
– Power supply plug E1-510
– Further components on request

Swinghandle 1317 with RC2, mechanical or electromechanical release

Resistance class:	RC2 DIN EN 1630, achieved by profile half cylinder according to DIN EN 18252-BZ or DIN EN 1303 with resistance class 2 with protection against drilling and pulling. The profile half cylinder should be certified and monitored by PIV CERT or alternatively by a certifying body according to DIN EN ISO/IEC 17065.
Size:	'long' (189.5 mm, cut out 130 mm) or 'short' (164.5 mm, cut out 105 mm)
Material:	Zinc die black powder-coated or zinc die grey powder-coated (RAL 7038) or zinc die grey powder-coated (RAL 7038) and anti-graffiti coated

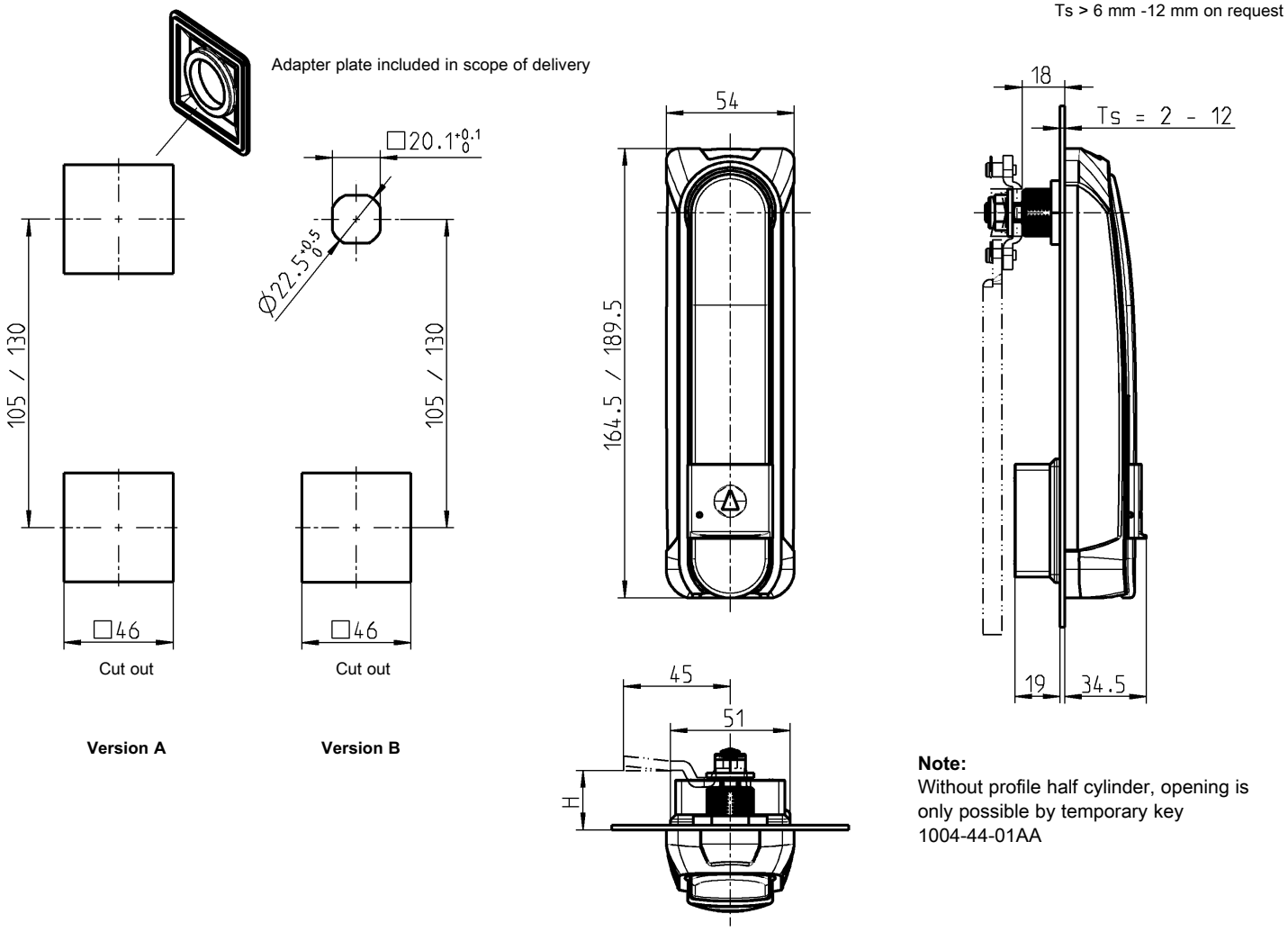
Mechanical version:

Profile half cylinder:	40 mm and 45 mm; set locking cam at 6 or 7 o'clock. At 3 or 5 o'clock push-to-close is not possible.
Sealable:	Yes

Electromagnetic version (EL):

Application range:	Indoor and outdoor from -30 °C to +80 °C
Release:	By applying a 48 V DC signal
Power-on time:	Up to 1 minute
Display:	optional by LED (on request)
Remote monitoring:	Status indication via Reed contact
Closing:	Push the handle into the dish until the locking mechanism engages
Emergency opening:	Optional with 40 mm or 45 mm profile half cylinder

Ts > 6 mm -12 mm on request



Version A **Version B**

Note:
Without profile half cylinder, opening is only possible by temporary key 1004-44-01AA

Attention:
With use of an adapter plate the maximum door gauge (Ts) is 6 mm.

Note:
If door gauge (Ts) > 6 mm standard round rods cannot be used!

** In case of mechanical and the electromechanical version, only the profile half cylinder according to DIN EN 18252 and DIN EN 1303 can be used.

Standards

- Test passed according to RC2 DIN EN 1630
- Rating IK 10 following DIN EN 50102
- Integrated scratch protection prevents surface damage (handle / dish)

Features

- Zinc die version fulfills the requirements of resistance class RC2 (protection against vandalism) according to DIN EN 1630
- High flexibility regarding cost / benefit due to the big variety of types
- Tested and approved by Deutsche Telekom

OUTDOOR

Swinghandle 'long' or 'short' Dish and handle zinc die surface on request; shaft brass; cylinder cover polyamide black or grey (RAL 7038); cap zinc die black powder-coated; adapter plate polyamide GF black for cut out version A; blind plug polyamide GF black (loose), spring, data sheet and assembly instruction included in the electromechanical version; fixing material m.s. zinc-plated; with seal	
Swinghandle 'long' (189.5) **GD-Zn black powder-coated**	
Electromechanical version optional for 40 and 45 mm profile half cylinder	1317-U161-02
Swinghandle 'long' (189.5) **zinc die grey powder-coated (RAL 7038) and anti-graffiti coated**	
Electromechanical version optional for 40 and 45 mm profile half cylinder	1317-U161-02HJ
Swinghandle 'short' (164.5) **zinc die black powder-coated**	
Electromechanical version optional for 40 and 45 mm profile half cylinder	1317-U151-02
Swinghandle 'short' (164.5) **zinc die grey powder-coated (RAL 7038) and anti-graffiti coated**	
Electromechanical version optional for 40 and 45 mm profile half cylinder	1317-U151-02HJ
Building key polyamide black	
	1004-44-01AA

Note:
The electromechanical version is also available in 12 V DC on request.

Further parts see main catalogue

– Cam	3YC-120
– Rod control for cam	3YC-180
– ** Profile half cylinder	3XB-120

Swinghandle Outdoor with RC2, mechanical or electromechanical release

Resistance class:	RC2 DIN EN 1630, achieved by profile half cylinder according to DIN EN 18252-BZ or DIN EN 1303 with resistance class 2 with protection against drilling and pulling. The profile half cylinder should be certified and monitored by PIV CERT or alternatively by a certifying body according to DIN EN ISO/IEC 17065.
Size:	'short' (164.5 mm, cut out 105 mm)
Material:	Zinc die grey powder-coated (RAL 7038), anti-graffiti coating on request

Mechanical version:

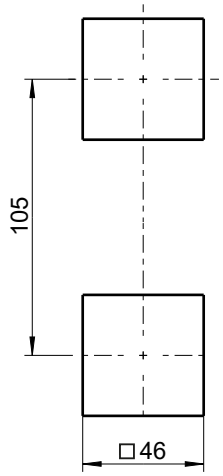
Profile half cylinder:	40 mm and 45 mm; set locking cam at 6 or 7 o'clock. At 3 or 5 o'clock push-to-close is not possible.
Sealable:	Yes

Electromagnetic version (EL):

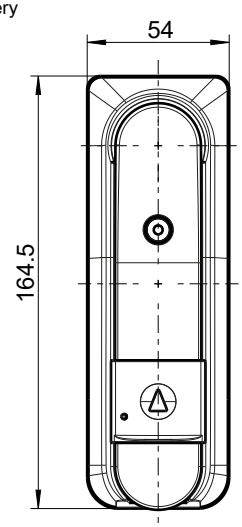
Application range:	Indoor and outdoor from -30 °C to +80 °C
Connection type:	Plug RJ45 with connection cable (4 m)
Release:	By applying a 3 - 3.6 V DC signal
Wake-up function:	Yes, by push button
Display:	By LED
Remote monitoring:	Status indication via Reed contact
Closing:	Push the handle into the dish until the locking mechanism engages
Emergency opening:	Optional with 40 mm or 45 mm profile half cylinder

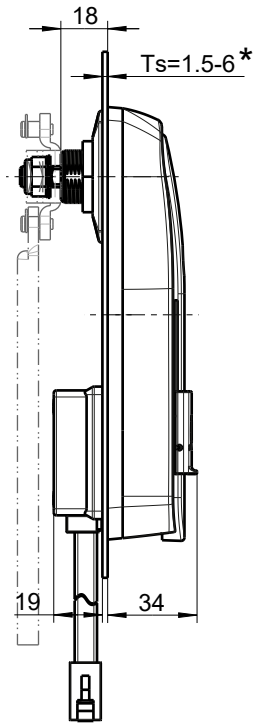
* Ts > 6 mm - 8 mm on request

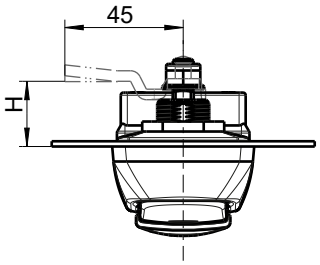
Adapter plate included in scope of delivery



Cut out







Product benefits

- The swinghandle has successfully passed the test according to RC2 DIN EN 1630
- The IK 10 protection class test in accordance with DIN EN 50102 was successfully passed
- Integrated scratch protection prevents surface damage (handle / dish)

Note:
Without profile half cylinder, opening is only possible by temporary key 1004-44-01AA

Note:
If door gauge (Ts) > 6 mm standard round rods cannot be used!

** In case of the mechanical and the electromechanical model, only the profile half-cylinder according to DIN EN 18252 and DIN EN 1303 can be used.

RJ45 plug front view	PIN	Assignment	Wire colours
 87654321	1	Motor V +	white
	2	V -	brown
	3	LED V +	green
	4	Reed contact	yellow
	5	-	grey
	6	Motor position 1	pink
	7	Motor position 2	blue
	8	Button	red

The pins 4, 6, 7, 8 must be provided with a pull-up resistor, pin 5 can be provided with a pull-up resistor.

The motor must be directly controlled by a higher-level controller and can only be moved in one direction. To set the lock in the required status (locked/unlocked), not only the motor must be controlled, but also the motor position switches must be interrogated and evaluated.

The following table serves to identify the corresponding status.

Motor position 1	Motor position 2	Handle status
Logical 0	Logical 1	Locked
Logical 1	Logical 1	Not defined
Logical 1	Logical 0	Unlocked
Logical 1	Logical 1	Not defined
Logical 0	Logical 1	Locked

Whether the lever is open can be queried via Reed contact.
The button can be used for interaction in any form, just as the LED can be used for indication in any way.

Motor: 3.3 V DC, 48 mA (idle), max. 100 mA
LED: 3.3 V DC, 30 mA

IP65 ELM DIN EN 61373

OUTDOOR

Swinghandle 'short' Dish and handle zinc die grey powder-coated (RAL 7038); shaft AISI 303; cylinder cover polyamide black or grey (RAL 7038); cap zinc die black powder-coated; adapter plate polyamide GF black; locking box ABS black; locking pin AISI 303; miniature push button with LED; cam disk POM black; clamp polyamide GF red (transport securing device); assembly instruction and data sheet included for electromechanical version; fixing material m.s. zinc-plated; with seal and spring	
Electromechanical version optional for 40 and 45 mm profile half cylinder with additional locking cam position 30°	1317-U155-BO
Electromechanical version for type KABA 1514	1317-U156-BO
Building key polyamide black	
	1004-44-01AA

Note:
The electromechanical version is also available in 12 V DC on request.

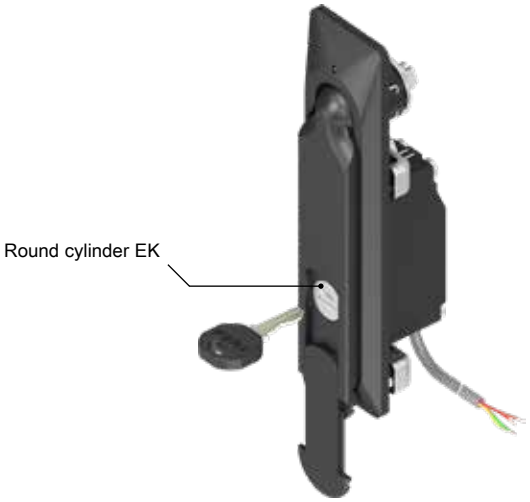
Further parts see main catalogue

– Cam	3YC-120
– Rod control for cam	3YC-180
– **Profile half cylinder	3XB-120

Notes:

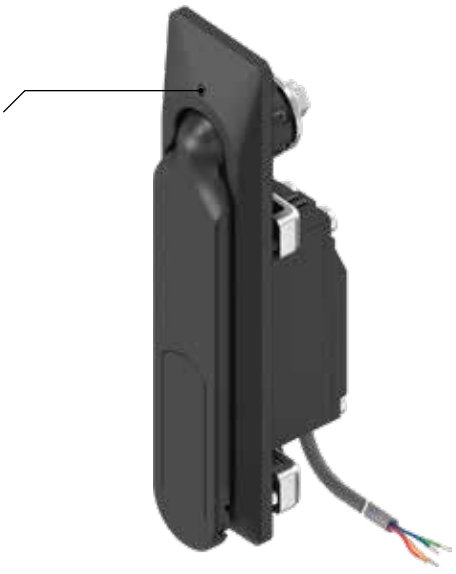
Swinghandle 1154 with electromechanical release and emergency opening

This handle is suitable for locking outdoor cabinets.
By applying a 12 V, 24 V or 48 V DC signal, the handle can be released.
After pushing the handle briefly into the dish, it can be opened.
The integrated reed contact is used for remote monitoring of the handle status. To lock the handle it must be pressed into the dish until the locking mechanism engages. The provided key is used to open the handle in case of power failure. To open the cylinder cover the screw M3 has to be removed. Then it is possible to unlock by means of round / pin cylinder.

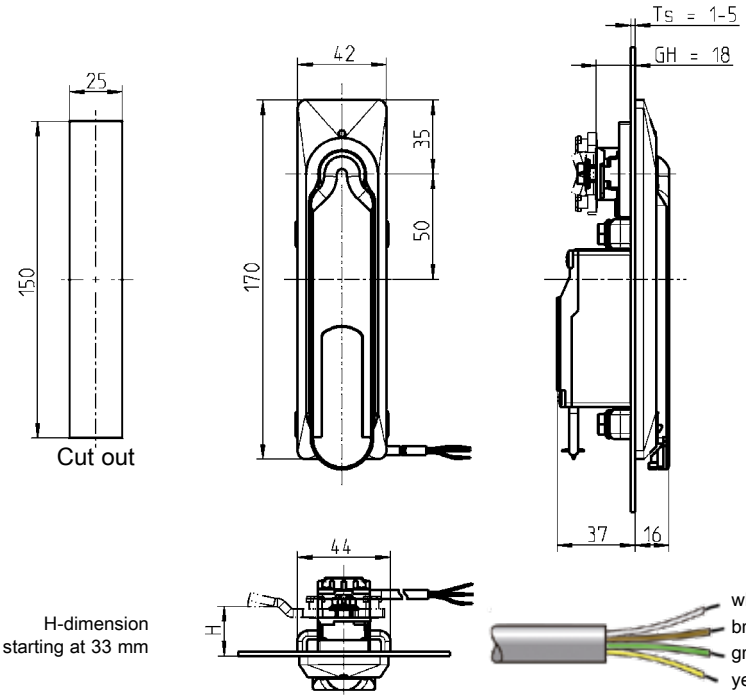


OUTDOOR

When the handle is released, the LED lights up.



Max. power-on time: 1 minute.



Swinghandle 1154
Swinghandle zinc die black powder-coated; cap and dust cap polyamide GF black;
shaft zinc die zinc-plated; holder AISI 304;
round cylinder EK with stainless steel cap and dust protection;
solenoid with electronics, reed contact and LED; cable (4 m);
screw M3 for cylinder cover AISI 304; fixing material m.s. zinc-plated; with seal.
Each round cylinder has one silver steel key with grip polyamide GF black.

Contact switching power: 48 VDC, 0.5 A

	keyed EK 333	keyed different
Round cylinder EK; 48V	1154-U6	1154-U6-V
Round cylinder EK; 24V	1154-U6-02	1154-U6-02V
Round cylinder EK; 12V	1154-U6-03	1154-U6-03V

Further parts see main catalogue
– Cam (stroke 26), H-dimension starting at 33 mm 3YC-120
– Rod on request
– Spare key EK 8B-140

Control Unit

Control Unit

- Central Control Unit of the EMKA Rack Management System for wired and wireless systems
- Configuration and operation of all connected Units is effected by the network interface using a standard web browser or the software EMKA Control Cockpit
- Fail-safe and tamper-proof logging of all events in the system with real-time clock and additional memory
- Time synchronisation via NTP server
- Two ports for different alarm states on the back of the housing
- Simple integration into higher level management systems via SNMP protocol
- Redundant power supply possible

Power supply:	12 ... 24 VDC, 325 mA
Relay outputs:	2 (30 VDC, max. 1.0 A; 48 VAC, max. 0.5 A)
Interfaces:	serial RS 232C interface (front)
Network interface:	Ethernet, 100 Mbit, RJ45 (back)
Communication protocols:	SNMP 1.0 and 2c
CAN bus ports:	2
Operating temperature:	+5 ... +45 °C
Dimensions (L x W x H):	123 x 140 x 33 mm
Scope of supply:	2 terminating resistors; assembly bracket
	3000-U141-02

Further parts see page

– Access Unit Wireless E1-320
– Locking Unit E1-340
– Sensor unit E1-340
– EMKA Control Cockpit E1-610
– Power supply plug E1-510

Access Unit Wireless

Access Unit Wireless

- In combination with a Control Unit Wireless up to 1,200 Agent E Wireless handles can be administered under one IP address with one Access Unit Wireless.
- To improve the range of the wireless signal max. 15 further Access Units Wireless can be connected to the Access Unit Wireless
- Frequency 868 MHz (Europe) or 922 MHz (USA, Singapore)

Power supply:	12 ... 24 VDC, 200 mA
RS 485 ports:	2 for connecting further Access Units Wireless
CAN bus ports:	2
Operating temperature:	+5 ... +45 °C
Dimensions (L x W x H):	126 x 135 x 33 mm
Scope of supply:	Assembly bracket

Access Unit Wireless Europe	3000-U980-02
other regions	on request

Further parts see page

– Agent E Wireless E1-110
– Control Unit E1-310
– Power supply plug E1-510

Access Units

Access unit for 2 handles and / or card readers HID

- Direct connection of 2 swinghandles of the series Agent E Wired
- Actuation of the central LED in the handle via the terminal block on the back
- Alternatively connection of 2 electromechanical locks and 2 external card readers
- Max. 32 Access Units per Control Unit:
- Administration of up to 64 handles under one IP address

Power supply:	12 ... 24 VDC, 200 mA + outputs
Handle outputs:	2 (RJ45), max. 12 V / 1,000 mA or max. 24 V / 500 mA per output
Ports for card reader:	2 (RJ45), HID
Relay outputs:	2 (max. 10 VDC, 1 mA)
CAN bus ports:	2
Operating temperature:	+5 ... +45 °C
Dimensions (L x W x H):	107 x 135 x 33 mm
Scope of supply:	Assembly bracket

Access Unit HID for installation in RMS 490	3000-U47-01
Access Unit HID in metal housing	3000-U47-02
RFID Card	
125 kHz	3000-87
13.56 MHz	3000-88

Further parts see page
– Card reader E1-350
– Power supply plug E1-510

Access Unit for 2 handles and / or card readers Legic®

- Direct connection of 2 swinghandles of the series Agent E Wired
- Actuation of the central LED in the handle via the terminal block on the back
- Alternatively connection of 2 electromechanical locks and 2 external card readers
- Max. 32 Access Units per Control Unit:
- Administration of up to 64 handles under one IP address

Power supply:	12 ... 24 VDC, 200 mA + outputs
Handle outputs:	2 (RJ45), max. 12 V / 1,000 mA or max. 24 V / 500 mA per output
Port for card reader:	1 (round connector) Legic®
CAN bus ports:	2
Operating temperature:	+5 ... +45 °C
Dimensions (L x W x H):	107 x 135 x 33 mm
Scope of supply:	Reader antenna with two RFID cards; assembly bracket

Access Unit Legic® for installation in RMS 490	3000-U47-07
Access Unit Legic® for metal housing	3000-U47-08
RFID Card	
Legic®	1417

Further parts see page
– Power supply plug E1-510

Locking Unit;
Sensor Unit

Locking unit for 8 releasable handles and single-point latches

- This unit can actuate up to 8 single-point latches or handles of the program 1150 and read 8 status contacts
- It is possible to activate several locks simultaneously. In this case it is recommended to connect a power-supply unit to each Locking Unit
- The opening signal for the respective lock is triggered by keypad, RFID card or management software EMKA Control Cockpit
- The states (open / closed) of locking systems, doors and side panels can be evaluated via the available inputs
- For supplying the locking systems with 24 V operating voltage, a suitable power-supply unit can be connected in addition at the input 'ext. DC'

Power supply:	12 VDC, 140 mA + outputs
Handle outputs:	8, max. 12 V / 1,000 mA, or max. 24 V / 500 mA per output
Maximum current:	2,000 mA
CAN bus ports:	2
Operating temperature:	+5 ... +45 °C
Dimensions (L x W x H):	107 x 135 x 33 mm
Scope of supply:	Assembly bracket
	3000-U320-02

Further parts see page

– Swinghandle 1150 E1-140
– Single-point latch E1-150
– Control Unit E1-310
– Door contact E1-510
– Power supply plug E1-510

Sensor unit

- Capturing and analysing of different measurements such as temperature, humidity, smoke or electrical parameters
- Connection of max. 4 sensors
- Switching of max. 4 alarm relay outputs (e. g. switching on or off of fans) depending on the set limits

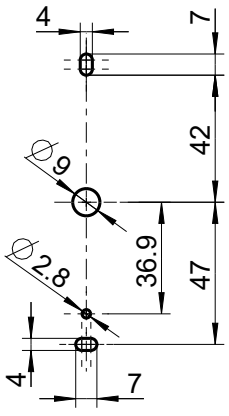
Power supply:	12 VDC, 200 mA
Sensor inputs:	4 (with sensor feed)
Relay outputs:	4 (30 VDC, max. 1.0 A; 48 VAC, max. 0.5 A)
CAN bus ports:	2
Operating temperature:	+5 ... +45 °C
Dimensions (L x W x H):	235 x 135 x 33 mm
Scope of supply:	Assembly bracket
	3000-U13-02

Further parts see page

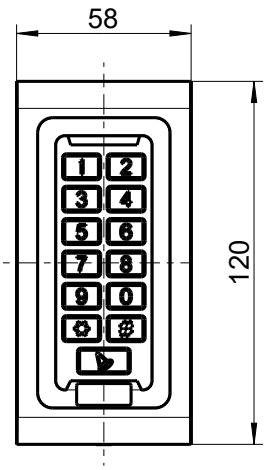
– Control Unit E1-310
– Sensors E1-410
– Power supply plug E1-510

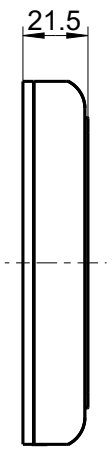
Card reader

- The card reader is designed for connection to existing access control systems and is suitable for indoor and outdoor use
- RFID cards in Mifare Classic format can be read and the data can be transferred with the integrated Wiegand 26 bit interface
- The card reader can be connected as a reader unit to the Access Unit 3000-U47-02.
  An adapter is required for the electrical connection, which is not included in the scope of delivery.
- The integrated keyboard cannot be used because the Wiegand interface cannot process keyboard inputs



Cut out





Power supply:	12 ... 24 VDC, <60 mA, standby <30 mA
Output:	Wiegand 26
Protection Class:	IP 68
Operating temperature:	-45 ... +60 °C
Air humidity:	10...90 % r.h. (non-condensing)
Dimensions (L x W x H):	120 x 58 x 21.5 mm
Scope of supply:	Connection cable 250 mm with open wire ends
	3000-U45-05

Further parts see page

– Access Unit (3000-U47-02) E1-330
– RFID card (3000-88) E1-520

Card reader for wall / door mounting

- The card reader is connected to the Access Unit 3000-U47-01 or 3000-U47-02 as an external reader and can read various contactless cards on the basis of HID and other card technologies
- The reader has terminals and is connected to the Access Unit using a 4-core cable. The maximum cable length between the Unit and reader amounts to 10 m

Power supply:	5 ... 16 VDC, 45 mA, 75 mA during readong process, supply via Access Unit
Connection:	Screw terminals
Operating temperature:	+5 ... +45 °C
Dimensions (L x W x H):	235 x 135 x 33 mm
Scope of supply:	Fixing frame for wall or door mounting

	on request
RFID Card	
125 kHz	3000-87
13.56 MHz	3000-88

Keypad

- The keypad in combination with a Locking Unit is used for locally opening selected locks by entering a PIN code
- In combination with the Access Unit the lock number is entered via keypad while the RFID card receives the authentication
- Alternatively a two-factor authentication for opening a lock is possible in this constellation (personal PIN code + RFID card)

Power supply:	12 VDC, 50 mA
CAN bus ports:	2
Operating temperature:	+5 ... +45 °C
Dimensions (L x W x H):	113 x 64 x 12 mm
Scope of supply:	Connection cable 3 m RJ11

	3000-U08-01

Locking system module with reed contact

- This module is activated via a Locking Unit 3000-U11-XX
- This module is used for opening spring-loaded handles. It is used instead of a mechanical push button or locking cylinder module

Locking system module with reed contact
PC+ABS-FR(40) black;
solenoid; electronics;
fixing material m.s. zinc-plated

Control:	via Lock Unit 3000-U11-XX
Contact switching power:	max. 48 VDC, 0.5 A
Scope of supply:	Connection cable 3 m

Connection cable with open cable ends	on request
Connection cable with plug for Locking Unit 3000-U11-02	on request

Further parts see page
– Locking Unit E1-340

Further parts see main catalogue
– Swinghandle 1151 3C-420
– Swinghandle 1180 3E-320
– Swinghandle 1185 3E-520

Climatic sensors

Climatic sensor - temperature and humidity

- The analog climatic sensor measures both, air humidity and the ambient temperature
- The sensor is connected to the Sensor Unit 3000-U13-0X and occupies two inputs of this unit

Operating voltage:	7.5 ... 27 VDC (provided by the system)
Current consumption:	approx. 0.8 mA
Measuring range humidity:	0...100 % relative humidity
Deviation:	± 3.5 % (20...80 % relative humidity)
Response time:	< 4 sec.
Output humidity:	0.5 ... 5.5 V
Measuring element:	capacitive (non-condensing)
Measuring range temperature:	–20 ... +80 °C
Deviation:	± 0.5 K at 25 °C
Response time:	< 20 sec.
Output temperature:	0.5 ... 5.5 V
Measuring element:	Semiconductor
Dimensions (L x W x H):	65 x 31 x 22 mm
Cable length:	2 m
Plastic housing with two fixing bore holes	

Connection cable with open wire ends for modules of type Kit	3000-U25-00
Connection cable with plug for Sensor Unit 3000-U13-02	3000-U25-01

Further parts see page
– Sensor unit E1-340

Temperature sensor

- The sensor is suitable for monitoring temperatures of both gaseous and liquid media
- The sensor is connected to the Sensor Unit 3000-U13-0X

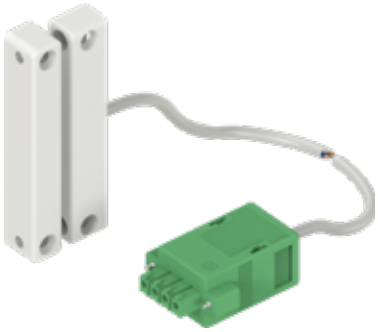
Operating voltage:	+12 V ±10 % (provided by the system)
Current consumption:	approx. 0.8 mA
Measuring range temperature:	–50 ...150 °C
Deviation:	< 2 %
Output voltage at -50 °C:	0.25 V
Output voltage at 150 °C:	4.75 V
Dimensions diameter x L:	Ø 6 mm x 50 mm
Cable length:	2 m
Housing stainless steel	

Connection cable with open wire ends for modules of type Kit	3000-U39-00
Connection cable with plug for Sensor Unit 3000-U13-02	3000-U39-01

Further parts see page
– Sensor unit E1-340

Door contact with connection cable

- This sensor is used to monitor the status of a door or side panel
- It is designed for the connection to the Unit 3000-U11-02



Dimensions (L x W x H): 60 x 11 x 9 mm **Cable length:** 6 m **Plastic housing with two fixing bore holes; loose side with permanent magnet**	
Connection cable with open wire ends for modules of type Kit	3000-U35-00
Connection cable with plug for Sensor Unit 3000-U13-02	3000-U35-01
Connection cable with connector for Agent E handles, cable length 2 m	on request

Door contact with screw connectors

- This sensor is used to monitor the status of a door or side panel
- Suitable for connection cables up to 1.5 mm²
- In combination with cable 2807 suitable for connection to Agent E handles

Dimensions (L x W x H): 50 x 9.5 x 7 mm **Plastic housing with two fixing bore holes and special adhesive tape**	
Door contact with screw connectors	3000-U35-05
Connection cable with connector for Agent E handles, cable length 2 m	2807

Power supply plug

Power supply plug, stabilised with Euro plug (Schuko) Housing plastic black **Output:** 12 VDC 2,000 mA stabilised	
Conncection cable with open cable ends for modules of type Kit	3000-03-00
Connection cable with plug for all Units	3000-03-02

Accessories

RFID Card

125 kHz

13.56 MHz

ISO 7816 ID-1	
125 kHz	3000-87
13.56 MHz	3000-88

Further parts see page

– Agent E Wireless E1-110
– Agent E Wired E1-130
– Access Unit HiD E1-330
– Card reader HID E1-350
– Agent E RFID Stand-Alone E2-110

RFID Card

ISO 7816 ID-1	
Legic®	1417

Further parts see page

– Access Unit Legic E1-330

EMKA Control Cockpit

The data-based software EMKA Control Cockpit manages the access authorisations.
It logs and documents all accesses to server racks. Measured variables of sensors are continuously captured and monitored with respect to limit violations.
The integration in superordinate systems is effected via an SQL interface.

Larger IT systems are often controlled by several different rack management systems. This might be necessary due to the great number of server racks or the distribution accross several rooms or locations.

Such systems are often linked to higher-level control or management systems. This covers central operation, control and configuration of critical importance.

Features

User Management
- Easy addition of users and assignment of user groups
- Individual allocation of authorisations and personal PIN codes

System administration
- Administration of up to 50 rack management systems with the connected components such as handles, sensors or card readers
- Basic functions:
  - Reading of RFID cards
  - Rights management for RFID cards with discretionary assignment
  - Access rights management for latches
  - Allocation of rack groups
  - Setting of limits for sensors and activation of alarms

Real-time monitoring
- Convenient opening of handles after entering a PIN code
- Comprehensive control and monitoring functions
- Display of alarm statuses of handles or sensors bye colour change
- Comprehensive filter functions for displaying the most important information

Configurable screen views
- Individual design of the screen views in different windows

Measured value storage
- Monitoring and logging of temperature values to identify the thermal strain
- Graphical diagram display of the progression of measured values of historical and current data in freely definable time slots
- Simple storage or print out of the diagrams using the export function

Logging and analysis
- Archiving of events of all connected systems in one common database
- Creation of customer-specific reports with extensive filter and export functions

Remote access
- Installation of the client software in any number of places
- Access to central database as client
- Encrypted data transfer within the network

Integration into third party systems
- Open database structure enables the simple integration in superordinate systems via SQL interface

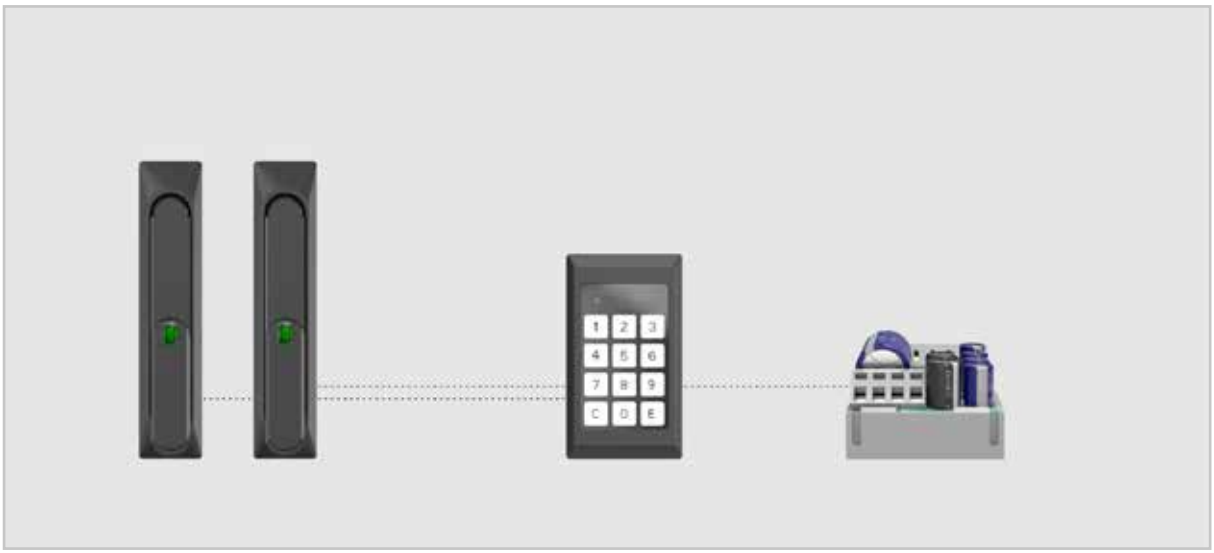
EMKA Control Cockpit	
Basic package for 2 systems	3000-U68
Extension for 1 further system	3000-U68-101
Extension for 10 further systems	3000-U68-102
Extension for 20 further systems	3000-U68-103
Extension for 48 further systems	3000-U68-104

Further parts see page
– Control Unit E1-310

Stand-Alone Systems

Stand-Alone systems are electronic locks with their own intelligence for accessing up to two electromechanical locks. They are suitable for access control for individual racks not requiring central monitoring.

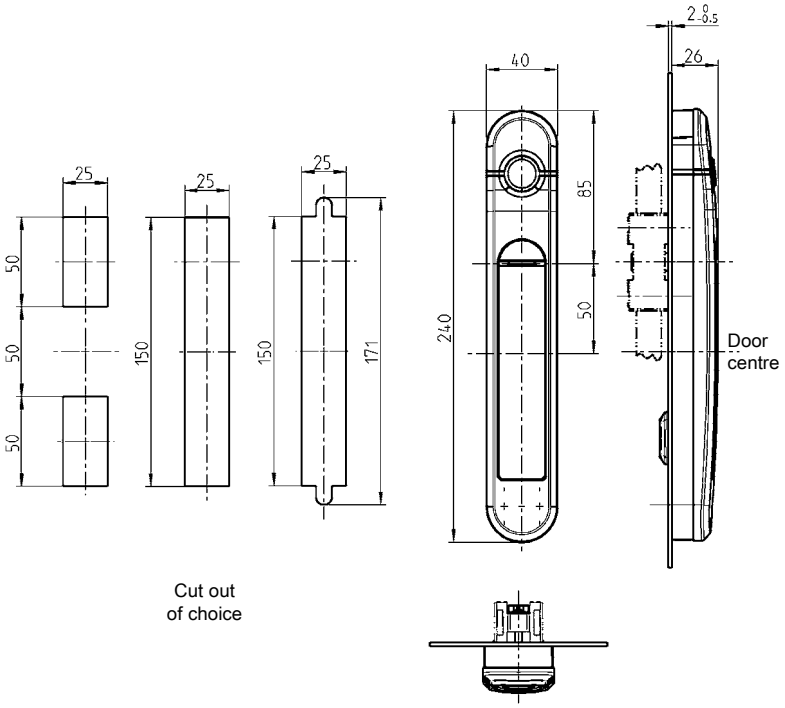
Depending on the chosen lock the opening is either effected by RFID cards or by entering a PIN code on a keypad. Systems with RFID cards are specially easy to install as no further wiring in the rack is required.



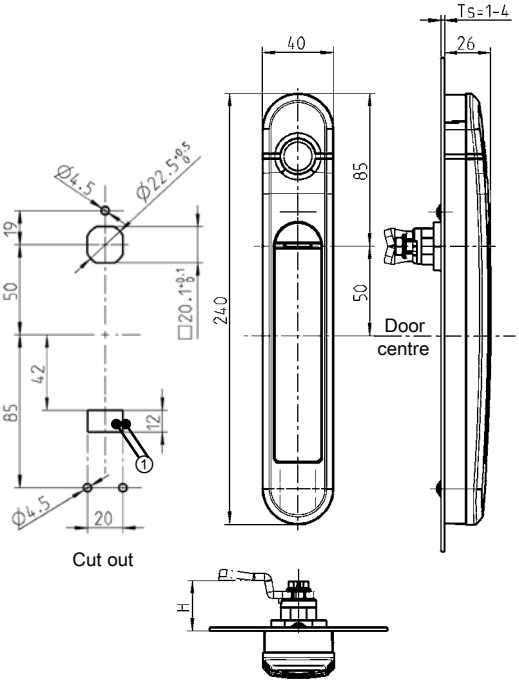
List of contents

Stand-Alone version with swinghandle Agent E RFID Stand-Alone

Swinghandle for rod control or bearing bush



Swinghandle for cam



Required for
① = Door contact

Swinghandles Agent E RFID Stand-Alone - functions					Dc = Door contact; Sd = Status display
Operation mode	**Authentication**	**Power**	**Opening standard**	**Opening optional**	**Connection option**
Stand-Alone	RFID card (125 kHz or 13.56 MHz)	Battery	immediately		Dc

max. 128 RFID cards per handle
Card management via USB with software tool

Agent E RFID Stand-Alone

This version consist of a battery-operated Agent E handle with integrated card reader for 125 kHz or 13.56 MHz RFID cards.

By holding an authorised RFID card in front the integrated reader, the handle will open.
Easy to configure using software.

This handle does not require any external cabling to work.

Features

- Battery-operated handle with integrated RFID reader
- Authentication by 125 kHz or 13.56 MHz RFID cards.
- Extremely energy-efficient battery operation (battery life min. 3 years)
- Configuration via USB port with Agent E configuration software (card administration, time profiles, reading out event logs)
- All handles have a connector for adding a door contact
- Data storage for 2,000 events
- Emergency power function and emergency opening via USB port
- The installation in cabinets of different manufacturers is solved with various adapters (on request)

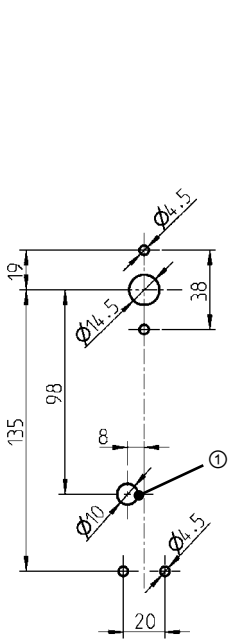
Swinghandle Agent E Dish polyamide GF black; handle and shaft zinc die powder-coated white aluminium; 2 batteries, mounting and operating instructions		
	for rod control or bearing bush	**for cams**
Stand-Alone with RFID 125 kHz	on request	on request
Stand-Alone with RFID 13.56 MHz	3000-U910-21	3000-U910-22
RFID Card		
125 kHz		3000-87
13.56 MHz		3000-88
Adapter set for bearing bush; adapter plate polyamide GF black; adapter m.s. precision casting zinc-plated; fixing material m.s. zinc-plated		
for Ts 1.0 - 3.0		3000-U104-01
Adapter set for retrofitting		
for various cabinet types		on request
USB adapter cable		
USB Standard-A on USB Micro-B		3000-U102

Further parts see page
– Door contact E1-510

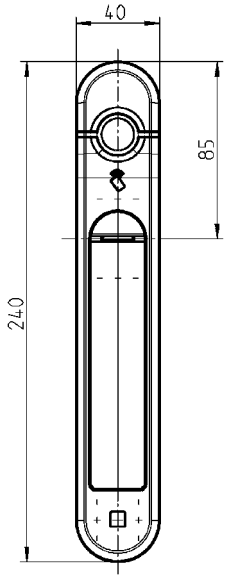
Further parts see main catalogue
– Rod control 3YA-120
3YA-140
– Bearing bush 3YB-120
– Cam (GH = 18) 1C-120

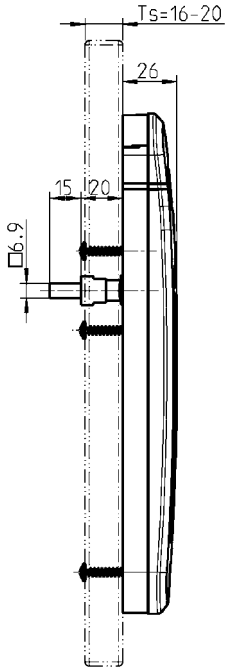
Stand-Alone version with swinghandle Agent E RFID Stand-Alone

Swinghandle for furniture doors



Cut out





Required for
① = Door contact

Swinghandles Agent E RFID Stand-Alone - functions					Tk = door contact; Sd = status display
Operation mode	**Authentication**	**Power**	**Opening standard**	**Opening optional**	**Connection option**
Stand-Alone	RFID card (125 kHz or 13.56 MHz)	Battery	immediately		Dc

max. 128 RFID cards per handle
Card management via USB with software tool

Agent E RFID Stand-Alone

This version consist of a battery-operated Agent E handle with integrated card reader for 125 kHz or 13.56 MHz RFID cards.
By holding an authorised RFID card in front the integrated reader, the handle will open.
Easy to configure using software.

This handle does not require any external cabling to work.

Features

- Battery-operated handle with integrated RFID reader
- Authentication by 125 kHz or 13.56 MHz RFID cards.
- Extremely energy-efficient battery operation (battery life min. 3 years)
- Configuration via USB port with Agent E configuration software (card administration, time profiles, reading out event logs)
- All handles have a connector for adding a door contact
- Data storage for 2,000 events
- Emergency power function and emergency opening via USB port
- The installation in furniture doors, in conjunction with different lock manufacturers, is solved with various adapters (on request)

Swinghandle Agent E Dish polyamide GF black; handle and shaft zinc die powder-coated white aluminium; 2 batteries, mounting and operating instructions	
	for furniture doors
Wireless with RFID 125 kHz	on request
Wireless with RFID 13.56 MHz	3000-U910-28
RFID Card	
125 kHz	3000-87
13.56 MHz	3000-88
Adapter AISI 303 for Agent E for furniture doors	
for □ 7 mm, 15 mm long	3000-115
other adapters	on request
USB adapter cable	
USB Standard-A on USB Micro-B	3000-U102

Further parts see page
– Door contact E1-510

Stand-Alone version with keypad lock

Electronic keypad lock for spring-loaded handles

Description:
Two handles can be connected to the electronic keypad lock systems.
By entering a correct PIN code, the respective handle will open.

Features

- Up to 5 PIN codes per handle can be set by master code
- Blocking function in case of repeated failed attempts
- Simple to mount solenoids for spring-loaded handles
- Central control module for connecting all components
- Compact solution for single cabinets

Note:
Stabilised power supply unit 12 V at least 500 mA required (see page E2-210).

Handle series suitable for the installation of solenoids

Program 1150

Program 1180

Program 2100

Program 2400

Technical Data

Protection class	IP 40
Temperature range	0-60 °C

Further parts see page

– Power supply plug	E2-210

Further parts see main catalogue

Program 1150
– Swinghandle 1151 3C-420, 3C-440

Program 1180
– Swinghandle 3E-120 to 3E-520

Program 2100
– Swinghandle 3H-320

Program 2400
– Swinghandle 3K-220

Stand-Alone Version Numeric keypad with electronics; terminal strip with voltage conditioning unit for connecting the number keypad; control module for actuating up to two solenoids; fixing material; operating and mounting instructions	
with 1 solenoid for spring-loaded handles (connection cable open 4 m)	3000-U01
with 2 solenoids for spring-loaded handles (connection cable open 4 m)	3000-U02

Stand-Alone Version
combination handle with keypad

Combination handle with keypad lock

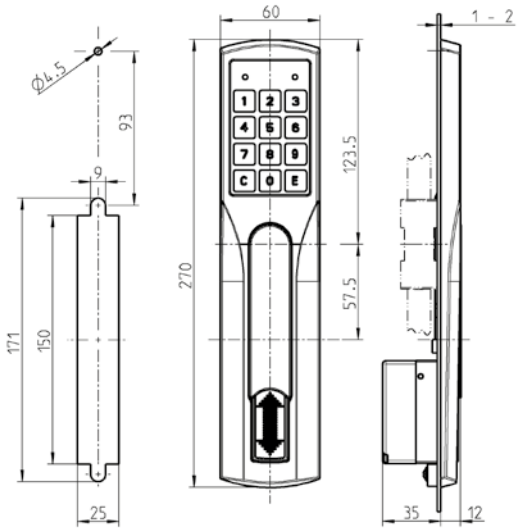
Description:
The integration of the keypad in the handle modules of the handle series 2100 facilitates the mounting on the rack

One further handle can be connected to the electronic keypad locking system.
By entering a correct PIN code, the respective handle will open.

Features

- Up to 5 PIN codes per handle can be set by master code
- Blocking function in case of repeated failed attempts
- Simple to mount solenoids for spring-loaded handles
- Central control module for connecting all components
- Compact solution for single cabinets

Note:
Stabilised power supply unit 12 V at least 500 mA required (see page E2-210).



Cut out

Stand-Alone Version Swinghandle polyamide GF black; handle and shaft zinc-die black powder-coated; solenoid and numeric keypad installed with electronics; connection cable 4 m; fixing material m.s. zinc-plated; terminal strip with voltage conditioning unit for connecting the number keypad; control module with holder for DIN rail mounting	
	2100-U151
and 1 solenoid for spring-loaded handles (connection cable open 4 m)	2100-U152

Technical Data

Protection class	IP 40
Temperature range	0-60 °C

Further parts see page

– Power supply plug	E2-210

Further parts see main catalogue

– Rod control	3YA-520 3YA-540

For the second solenoid

Program 1150	
– Swinghandle 1151	3C-420 3C-440
Program 1180	
– Swinghandle	3E-120 to 3E-320
Program 2100	
– Swinghandle	3H-320
Program 2400	
– Swinghandle	3K-220

Stand-Alone version with keypad lock

Electronic keypad lock for releasable handles and latches

Description:
Two handles or latches can be connected to the electronical keypad locking system. By entering a correct PIN code the respective lock will open. Alternatively both locks can be released simultaneously. The release time is programmable.

Features

- Up to 5 PIN codes per handle can be set by master code
- Blocking function in case of repeated failed attempts
- Simple to mount solenoids for spring-loaded handles
- Central control module for connecting all components
- Compact solution for single cabinets

Program 1150

Program 3000

Technical Data

Protection class	IP 40
Temperature range	0-60 °C

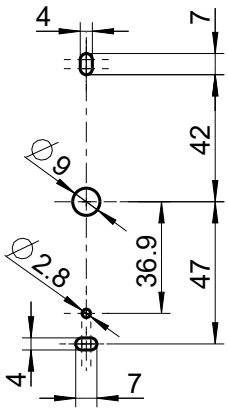
Stand-Alone Version Numeric keypad with electronics; terminal strip with voltage conditioning unit for connecting the number keypad; control module for actuating up to two handles or locking devices; power supply unit; fixing material; operating and assembly instructions	
Set for releasable handles and single-point latches	3000-U200

Further parts see page

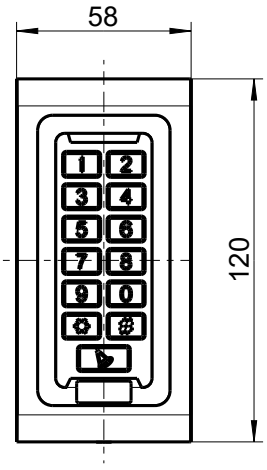
– Swinghandle 1150 E1-140
– Single-point latch E1-150

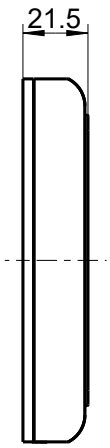
Keypad with integrated card reader

- The keypad with integrated card reader for cards in Mifare Classic format can be used in stand-alone applications in indoor and outdoor areas
- Authentication is done via RFID card, PIN or card and pin (2 factor authentication)
- 2,000 users can be stored locally
- A potential-free relay contact is available for controlling locks
- In case of unauthorised opening/vandalism, the reader may give an audible alarm



Cut out





Power supply:	12 ... 24 VDC, <60 mA, standby <30 mA
Output:	Relay: max. 30 V DC, max. 1 A
Protection Class:	IP 68
Operating temperature:	-45 ... +60 °C
Air humidity:	10...90 % r.h. (non-condensing)
Dimensions (L x W x H):	120 x 58 x 21.5 mm
Scope of supply:	Connection cable 250 mm with open wire ends
	3000-U45-05

Further parts see page

– RFID card (3000-88) E1-520
– Power supply plug E2-210

Accessories for Stand-Alone version

Locking system unit

- This locking set is activated via control module of the Stand-alone versions for spring-loaded handles 3000-U07
- This module is used for opening spring-loaded handles.
  It is used instead of a mechanical push button or locking cylinder module

Locking system unit PC+ABS-FR(40) black; solenoid; electronics; fixing material m.s. zinc-plated		
Control:	via Lock Unit 3000-U07	
Contact switching power:	max. 48 VDC, 0.5 A	
Scope of supply:	Connection cable 3 m	
Connection cable with open cable ends		3000-U05

Further parts see page
– Control module for handles E2-220

Further parts see main catalogue
– Swinghandle 1151 3C-420
– Swinghandle 1180 3E-320
– Swinghandle 1185 3E-520

Power supply plug

Power supply plug, stabilised with Euro plug (Schuko) Housing plastic black		
Output:	12 VDC 2,000 mA stabilised	
Conncection cable with open cable ends for modules of type Kit		3000-03-00

Accessories for Stand-Alone version

Control module for handles with locking system unit

Control module to control locking system units 3000-U05 for spring-loaded handles.

- The voltage conditiong for the triggering is done by this control module
- Connection option for max. 2 sets
- For the power supply a stabilised power supply unit 12 V DC min. 500 mA is required

Control for handles with solenoid	
	3000-U07

Control module for single-point latches and handles 1150-U56/U58

Control module for control single point latches or handles of the type 1150-U56/U58.
The module releases the latches or handles for a time period programmable in the stand-alone keypad.

- Max. 2 locking devices or handles and max. 2 trigger buttons can be connected
- Stabilised power supply unit 12 V DC min. 700 mA required

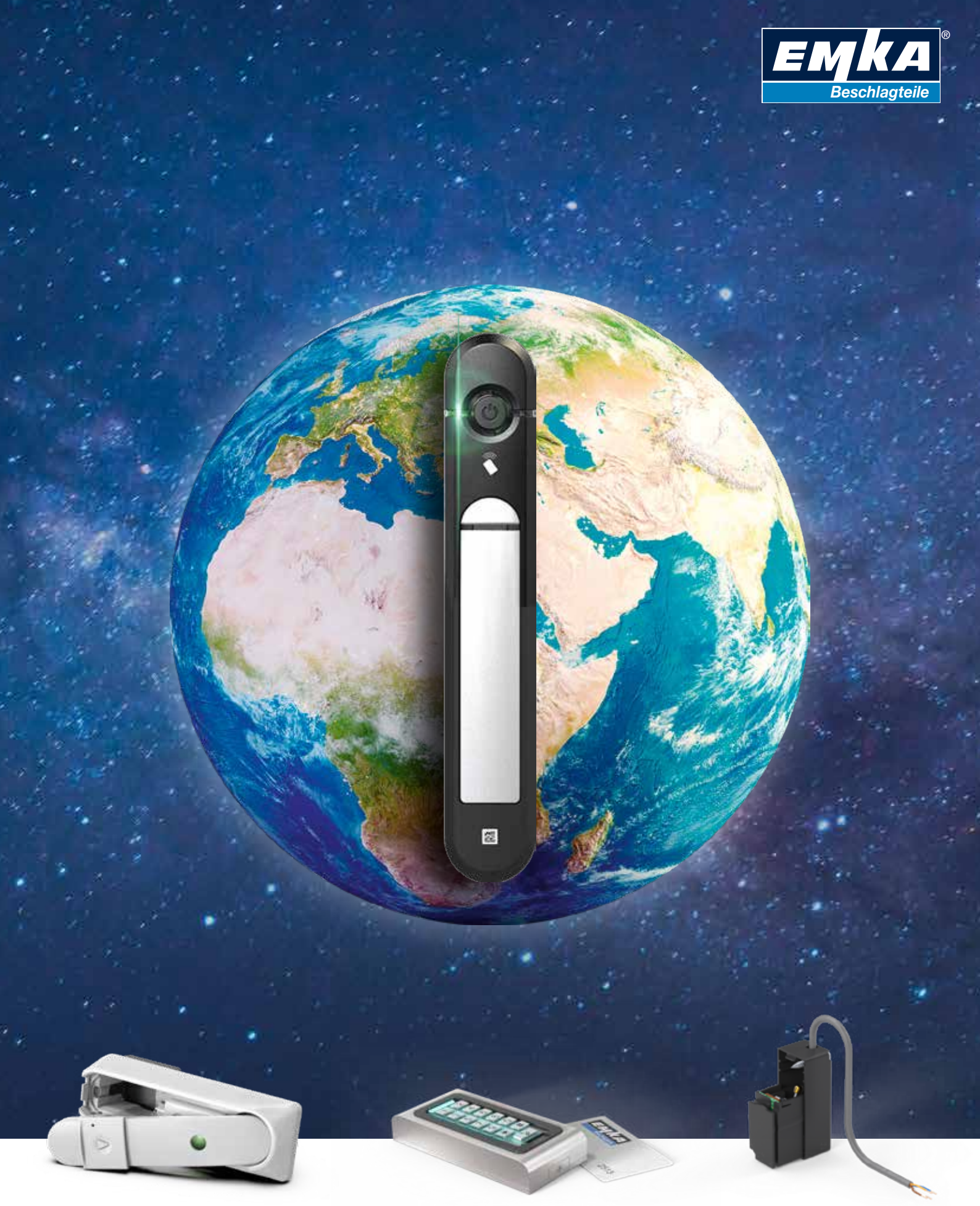
Control module for single-point latches and handles 1150-U56/U58	
	3000-U07-01

Index by part number

Notes:

Notes:

EMKA®
Beschlagteile



www.EMKA.com

EMKA worldwide

ALGERIA
EMKA France
Tel. +33/254/320862
emka@emka-france.com

ARMENIA
EMKA Kilit
Tel. +90/262/2909097
info@emkakilit.com.tr

AUSTRIA
EMKA Beschlagteile Ges.m.b.H.
Tel. +43/2143/43063
info@emka-beschlagteile.at

AUSTRALIA
EMKA Pacific AU
Tel. +61/3/93386958
sales@emka.com.au

AZERBAIJAN
EMKA Kilit
Tel. +90/262/2909097
info@emkakilit.com.tr

BELGIUM
EMKA Benelux
Tel. +31/413/323510
info@emka.org

BOSNIA-HERZEGOVINA
EMKA Bosnia
Tel. +387/38/241310
info@emka.ba

CANADA
EMKA Inc.
Tel. +1/717/9861111
info@emkausa.com

CHINA
EMKA Industrial Hardware
Tel. +86/22/22242300
info@emka.cn

CROATIA
EMKA Okovi
Tel. +385/35/270073
info@emka-okovi.hr

CZECH REPUBLIC
EMKA Beschlagteile CZ
Tel. +43/214343063
info@emka-solutions.cz

DENMARK *
A/S Megatrade Beslag
Tel. +45/44916700
mega@megatrade.dk

ESTONIA
EMKA Polska
Tel. +370/612/42868
m.balsevicius@emka.net

FINLAND
EMKA Scandinavia
Tel. +46/36/314130
info@emka.se

FRANCE
EMKA France
Tel. +33/254/320862
emka@emka-france.com

GEORGIA
EMKA Kilit
Tel. +90/262/2909097
info@emkakilit.com.tr

GREECE *
EMKA Hellas
Tel. +30/21041/83183
info@emka-hellas.com

HUNGARY
EMKA Beschlagteile Ges.m.b.H.
Tel. +36/1/2360032
info@emka.hu

INDIA
EMKA India
Tel. +91/80/48542727
info@emka.in

INDONESIA
EMKA Pacific
Tel. +62/22/87301000
info@emka-pacific.id

ISRAEL *
Kornass Mechanical Engineering
Tel. +972/76/5400789
sales@kornass.com

ITALY
EMKA Italia
Tel. +39/045/6471070
info@emka.it

JAPAN *
TOCHIGIYA
Tel. +81/48/2283072
support@tochigiya.co.jp

KAZAKHSTAN
EMKA Kilit
Tel. +90/262/2909097
info@emkakilit.com.tr

LATVIA
EMKA Polska
Tel. +370/612/42868
m.balsevicius@emka.net

LITHUANIA
EMKA Polska
Tel. +370/612/42868
m.balsevicius@emka.net

MOROCCO
EMKA France
Tel. +33/254/320862
emka@emka-france.com

MEXICO
EMKA Mexico Beschlagteile
Tel. +52/44/22095217
info@emka.mx

MONTENEGRO
EMKA Bosnia
Tel. +387/38/241310
info@emka.ba

NETHERLANDS
EMKA Benelux
Tel. +31/413/323510
info@emka.org

NORWAY
EMKA Scandinavia
Tel. +46/36/314130
info@emka.se

POLAND
EMKA Polska
Tel. +48/32/6663300
info@emka.net

PORTUGAL
EMKA Beschlagteile Ibérica
Tel. +34/672/262672
info@emka-iberica.pt

ROMANIA
S.C. EMKA Beschlagteile
Tel. +40/269/222700
info@emka.ro

SERBIA
EMKA Okovi
Tel. +385/35/270073
info@emka-okovi.hr

SINGAPORE *
VF Fastening Systems
Tel. +65/6752/3033
vincent@vffastening.com.sg

SLOVAKIA
EMKA Beschlagteile Ges.m.b.H.
Tel. +42/190/3446826
miro.herman@gmail.com

SOUTH AFRICA *
Enclosure Solutions
Tel. +27/11/9737260
info@enclosuresolutions.co.za

SOUTH COREA *
Geo Jeon
Tel. +82/314/335508
geojeon@emkakorea.co.kr

SPAIN
EMKA Beschlagteile Ibérica
Tel. +34/672/262672
info@emka-iberica.es

SWEDEN
EMKA Scandinavia
Tel. +46/36/314130
info@emka.se

SWITZERLAND
EMKA Beschlagteile AG
Tel. +41/33/8260220
info@emka.ch

TUNISIA
EMKA France
Tel. +33/254/320862
emka@emka-france.com

TURKMENISTAN
EMKA Kilit
Tel. +90/262/2909097
info@emkakilit.com.tr

TURKEY
EMKA Kilit
Tel. +90/262/2909097
info@emkakilit.com.tr

UAE
EMKA Middle East
Tel. +971/4/2844528
info@emka.ae

UKRAINE
EMKA Ukraine
Tel. +380/96/7535875
info@emka.in.ua

UNITED KINGDOM
EMKA (UK)
Tel. +44/2476/616505
info@emka.co.uk

USA
EMKA Inc.
Tel. +1/717/9861111
info@emkausa.com

UZBEKISTAN
EMKA Kilit
Tel. +90/262/2909097
info@emkakilit.com.tr

VIETNAM *
DNP - Dai Nguyen Phat
Tel. +84/356/951724
lttn@dainguyenphat.com

*Agency

www.EMKA.com

EMKA Beschlagteile GmbH & Co. KG
Langenberger Str. 32 • 42551 Velbert, Germany • Tel.: +49/2051/273-0 • Fax: +49/2051/273-128 • E-Mail: info@emka.com • www.emka.com