

Electromechanical devices

TESA

ASSA ABLOY



Electromechanical devices



TESA ASSA ABLOY is complementing its catalogue with a wide range of Electric Strikes, Electromagnetic Locks and Electromechanical Locks in order to ensure the highest level of active securi-

ty, not forgetting those passive security features that vary depending on each chosen product: monitoring of the door status, placement of the lever, handle status, cylinder status...

Opening and locking: safety and reliability

A Residence, a Bank Office, a R+D Department or a Chemist's Shop: in some places, Security has become a top priority. The security level afforded by **TESA ASSA ABLOY's** Electromechanical Devices meets the most demanding standards, going further than most traditional mechanical systems in many aspects, while adding peerless advantages in terms of user-friendliness and passive security.



Make your choice

Each specific place has its own security demands, which is why **TESA ASSA ABLOY's** electromechanical devices can adapt to each installation's particular needs. Depending on these, choices will vary in terms of technology and complexity: from the simplicity of the CEL electric strike for traffic control in internal doors to the complexity of the motorized electromechanical lock, which combines the best security and user-friendliness available in the market



The latest technology, above all

Electromechanical Devices are always at the forefront of the latest technologic developments.

Continuous improvements and permanent optimizing guarantee the quality of our products, reinforcing our aim of keeping a range of products capable of meeting always our customer's requirements.



Guaranteed products

TESA ASSA ABLOY can guarantee the perfect functioning of its electromechanical parts, as long as they are employed according to current standards and they have been installed according to the accompanying instructions. The installation will always be performed by qualified staff, and the handling of the product demands that certain minimum security measures are observed. The set-up of any kind of electric installation must always be performed following the advice of current standards for workplace risk prevention.



We offer an integral locking solution

In order to install an electromechanical solution in a door, we need: a door closer that ensures that the door reaches the “closed” position before being blocked, a cylinder that allows the mechanical opening of the door, and an exit panic device that ensures an emergency exit. For this reason, [TESA ASSA ABLOY](#) brings you the widest range of locking products for the complete installation of a door.

Fail secure, fail safe

Sometimes it's just as important a solid closing as an easy exit, which is why our electromechanical solutions haven't just been conceived for closing doors – they can also be extremely useful when installing electrically controlled exit ways. Electromechanical devices have been conceived basically for operating according to Fail Secure logic, that is, if power supply fails the door must remain locked solid. But we may also find situations in which it's vital to ensure the correct evacuation of the premises through a door we may wish to control electrically. In these cases we will use Fail Safe locks: if power supply fails, the door will open wide. We will then generically use Electromagnetic Locks, even if in some cases we may choose Electromechanical Locks or Electric Strikes in reverse operation mode.

Electromechanical solutions are, first and foremost, mechanical.

Although mechanical solutions don't always offer the desired security or versatility levels when equipping a door, strictly electrical solutions can be regarded with suspicion, as is the case when locks depend on power supply for their proper operation. Except for electromagnetic locks, electromechanical locking devices are essentially mechanical elements (levers, latches); therefore, intrusion resistance can be as high as that of [TESA ASSA ABLOY](#)'s mechanical locks.



Index

Contents

Electronic Access management	6
Code Handle	6
Traka 21 Key-Storing Cabinet	8
Electric strikes	9
Electric mortise strikes	10
Standard series	10
Standard series with micro	11
Narrow series with thermal break	11
Fire rated series	12
Rim Electric strikes	13
Electromechanical locks	14
TCP electro-retractable lock	14
CF60 series	15
Handle controlled EFS	16
Motor locks EFM	18
Electric bolt locks	19
Electromagnetic locks	20
Rim electromagnetic locks	20
Mortise electromagnetic locks	22
Accessories	23
Key switches	23
Power supplies	24
Lead covers	24
Fire prevention magnetic door holder	25
Status detector	26



TRAKA21 cabinet



Electric strikes



Electromechanical locks



Electromagnetic locks



CODE HANDLE



Accessories

Solutions for special applications

Stand-alone access control



Easy and comfortable

CodeHandle is a set of handles with access control without any cards or keys, simple and effective. Its suitable for any kind of interior door, in residential or institutional environments where comfortable and ease of use its a priority. Code handle is the solution for most of the restricted areas: offices, warehouses, private areas, wardrobe, etc.

Attractive design and easy to install

As the keyboard is integrated in the handle is a more attractive option than the wall readers. Also is very easy to install: without cables, without special drills... you can install it as any other handle.

Technical features:

- » In doors: patented stand alone access control with code for internal door. A complete set is supplied including handles, rosettes, spindle, fixing through bolts and instructions. For 35 - 80 mm door thickness.
- » In windows, the handle is supplied with fixing screws and instructions.
- » Fits lock cases DIN standard. 8 mm spindle.
- » One master code and up to nine different user codes.
- » Auto locking function available.
- » Two CR2, 3V lithium batteries in the outer handle.
- » Visual and acoustic feedback.
- » Easy to fit, no cables.
- » Available for right- and left hand doors.
- » Only for indoor use.
- » Material: brushed stainless steel and satin chrome zink.

Normative

CE according to EN 61000-6-1, EN 61000-6-3, EN 61000-4-2, EN 61000-4-3, EN61000-4-8
Fire certificate EN 1634



How to install and program
the CodeHandle



Function:


- » Four buttons to press a four- to six digit code to unlock and one button to lock.
- » Green light flashes and a sound is heard when the buttons are pressed for unlocking.
- » Red light flashes and a sound is heard when locking.
- » Master code and user code is programmed at installation. Can be changed unlimitedly.
- » If wrong code is pressed five times the handle is blocked for three minutes.
- » Free swing from the outside when locked, always possible to open with the handle from the inside.
- » The two batteries gives approximately 2 years.
- » Red light indicates low battery when approximately 500 operations left

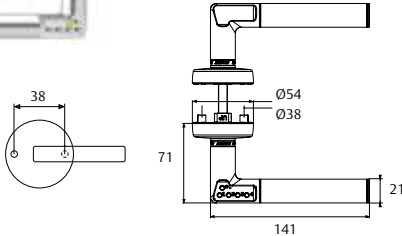


Solutions for special applications


Stand-alone access control

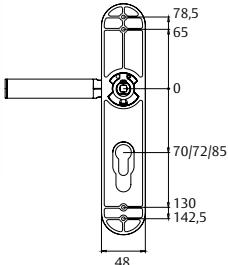
Rosette Ø54

Handle for door	Product code	Finish	Hand	Lock
	MCHDR800CM	CM	Right	134
	MCHIR800CM	CM	Left	134 PLUS
	MCHSIR800CM (without electronic)	CM	Right / Left	2030
				2035
				2UB0F




Long plate

Handle for door	Product code	Finish	Hand	Lock
	MCHDL800CM	CM	Right	134
	MCHDL872CM	CM	Right	134 PLUS
	MCHDL885CM	CM	Right	2004U
	MCHIL800CM	CM	Left	2030
	MCHIL872CM	CM	Left	2035
	MCHIL885CM	CM	Left	2UB0F
				2015
			135	



3500 (retrofit) Ø70

Handle for door	Product code	Finish	Hand	Lock	
	MCHD3500CM	CM	Right		
	MCHI3500CM	CM	Left		
					Included 3500 60 latch



Electronic Access management

Traka 21 Key-Storing Cabinet

Traka21 is a sophisticated standalone key management system that features the advanced management of 21 keys or bunches in a plug-and-play unit.

Details

- » A standalone plug and play solution with advanced RFID technology
- » Touch screen
- » Access via PIN code to allocated keys or bunches, individually blocked
- » Blocked keys with security
- » Easy to set-up
- » No need for online connection or a computer
- » Solid, hidden securing points for securing to the wall
- » Mains electricity plus an optional emergency battery

Features

- » Management of access rights to user keys
- » Multilanguage
- » On-screen audit report and/or export to USN
- » 21 iFob, solid and long-lasting, with security seals
- » 21 blocked positions with integrated LED
- » Manual release and door opening in case of emergency
- » Aural alarms

Technical features

- » Sizes 427x246x95mm
- » Weight 3.94 Kg
- » 100-240 V AC Output 15V DC 0.7 amp.
- » Optional DC12V support battery
- » For internal use -5° +50°
- » Mounted on the wall
- » 21 positions for keys
- » Number of users per system: 1,000
- » CE, FCC, IC certifications.

Product code	Description
TRAKA21	Traka21 cabinet
TRAKA21RA25	25 spare rings
TRAKA21RT5	5 spare iFobs
TRAKA21BAT	Backup battery



iFob

Once it has been linked to an iFob, each key or bunch will be assigned to a receiver in the Traka cabinet and will remain blocked until an authorized user releases it.

Security Seal

It is used to connect the key(s) of the iFob. Once the seal has been crimped, the only way to detach the keys from the iFob is to cut the security seal by using a heavy duty cutter.



How does it work?

It ensures that the keys are available for authorized users at the right times.



The user identifies himself/herself through his/her PIN code in order to access the cabinet



The green LEDs show the user which keys he/she has access to. The user cannot take any keys when the LED is red, as they remain blocked.



The orange position(s) show(s) where the key must be returned to.

Electric strikes

Electric strikes are devices whose mounting is carried out on the frame, with no need to wire the leaf. An electric signal releases the tab that holds the latch, which allows for the opening of the door.

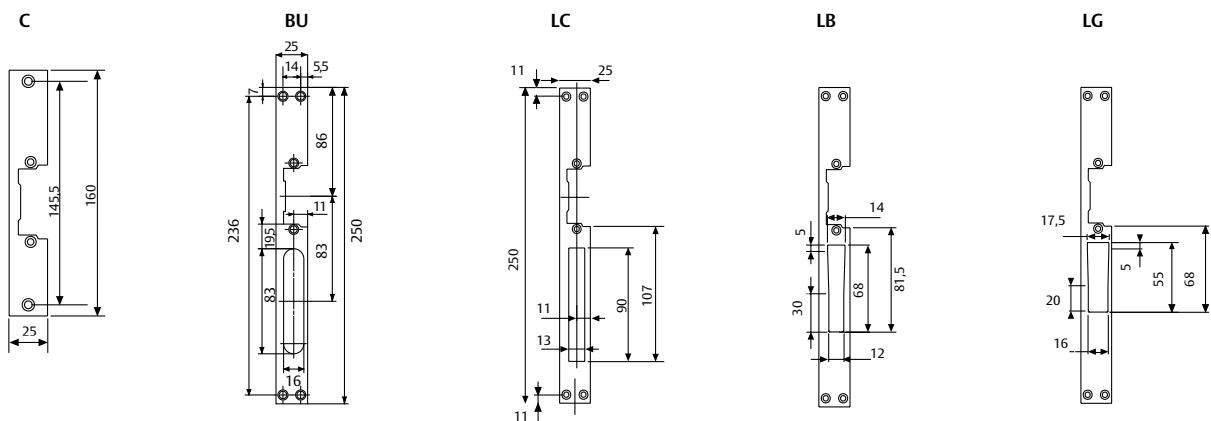
We have a wide range of applications: wood, metal, aluminium, firebreak doors, glass, etc.

Monitoring features		
NOR	Normal	It allows for the opening of the door while the signal is being received
D	With manual unblocking	It features a lever that, when manually activated, allows the user to leave the tab unblocked in case this is required.
AUT	Automatic	The lever remains unblocked from the moment the electric signal arrives until its first opening.

Features		
AN	Fail-secure	In case of electricity failure, the lock is blocked
CN	Fail-secure D100%	In case of electricity failure, the lock is blocked. For applications with working cycles of 100%
CP	Fail-safe (Opposite)	In case of electricity failure, the lock is not blocked

Features		
M	Micro door status	Optional for several models

Face plates	
C	Short for entrance door locks
BU	Long for bolt locks
LC	Long for locks with sliding lever
LB	Long for locks with swing lever
LG	Long for locks with a hook



Product code	Face Plate	Finish
CELFRECI	C	Inox
CELFREBUI	BU	Inox
CELFREBRE	BU	AE
CELFRELBI	LB	Inox
CELFRELCE	LC	AE
CELFRELGI	LG	Inox

Electric strikes

Standard series

Electric strikes for wooden or metalwork doors.

Technical features

- » Resistance: 3500N
- » Sizes: 75.4 x 28 x 21 mm.
- » Mounting: Reversible
- » Tab adjustment: 3mm
- » Working temperature: -15° to +40°
- » Stainless steel face plates

Electric features

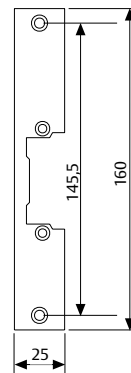
Standard coil	Consumption
12V	470mA (12Vac) / 550mA (12Vdc)

Special coils		Consumption
AN	24V	400mA (24Vac) / 550mA (24Vdc)
CN	12V (D100%)	270mA (12Vdc)
CN	24V (D100%)	120mA (24Vdc)
CP	12V (D100%)	270mA (12Vdc)
CP	24V (D100%)	120mA (24Vdc)

The indicated codes are supplied with a standard reel: 12V; Fail-secure

Available in special versions by adding the following digits after the code:

24Vac; AN	(-2ANA)
12Vdc (D100%); CN	(-1CNA)
24Vdc (D100%); CN	(-2CNA)
12Vdc (D100%); CP	(-1CPA)
24Vdc (D100%); CP	(-2CPA)



Product code	Function	Face plates	Finish
CELCARNOR	NOR	-	-
CELCARNOD	NOR + D	-	-
CELCARAUT	AUT	-	-
CELCARAUD	AUT+D	-	-
CERNORCIN	NOR	C	Inox (stainless)
CERNODCIN	NOR + D	C	Inox (stainless)
CERAUTCIN	AUT	C	Inox (stainless)
CERAUDCIN	AUT+D	C	Inox (stainless)
CERNORBUE		BU	AE
CERNODBUE	NOR + D	BU	AE
CERAUTBUE	AUT	BU	AE
CERAUSBUE	AUT+D	BU	AE
CERNORBUI	NOR	BU	Inox (stainless)
CERNODBUI	NOR + D	BU	Inox (stainless)
CERAUTBUI	AUT	BU	Inox (stainless)
CERAUSBUI	AUT+D	BU	Inox (stainless)
CERNORLCE	NOR	LC	AE
CERNODLCE	NOR + D	LC	AE
CERAUTLCE	AUT	LC	AE
CERAUDLCE	AUT+D	LC	AE
CERNORLCI	NOR	LC	Inox (stainless)
CERNODLCI	NOR + D	LC	Inox (stainless)
CERAUTLCI	AUT	LC	Inox (stainless)
CERAUDLCI	AUT+D	LC	Inox (stainless)
CERNORLBI	NOR	LB	Inox (stainless)
CERNODLBI	NOR + D	LB	Inox (stainless)
CERAUTLBI	AUT	LB	Inox (stainless)
CERAUDLBI	AUT+D	LB	Inox (stainless)
CERNORLGI	NOR	LG	Inox (stainless)
CERNODLGI	NOR + D	LG	Inox (stainless)
CERAUTLGI	AUT	LG	Inox (stainless)
CERAUDLGI	AUT+D	LG	Inox (stainless)

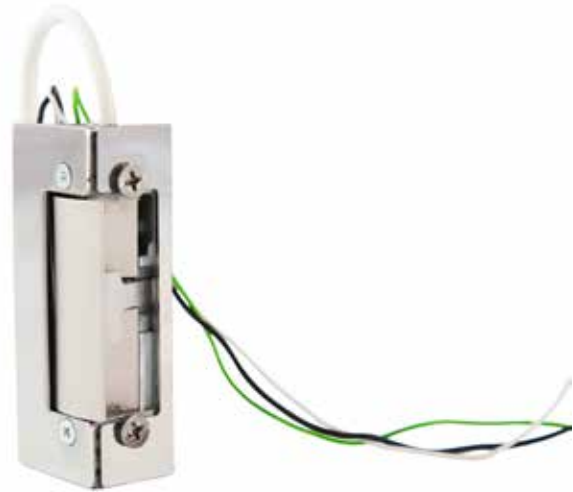
Electric mortise strikes

Standard series with micro

Electric strikes for wooden or metalwork doors.

Technical features

- » Resistance: 8,000N
- » Sizes: 75 x 28 x 21 mm.
- » Mounting: Reversible
- » Working temperature: -15° to +40°
- » Stainless steel face plates



Electric features

Voltage	Function	Consumption
12V	NC	440mA(12Vac) / 550mA (12Vdc)
24V	NC	130mA (24Vac)
12V (D100%)	NC	390mA (12Vdc)
24V (D100%)	NC	180mA(24Vdc)
12V (D100%)	NA	200mA(12Vdc)
24V (D100%)	NA	100mA(24Vdc)

Product code	Function	Face Plate	Function	Voltage
CERAUTCINSM	AUT	Corto	NC	12V
CERAUTCINSM1CNA	AUT	Corto	NC	12V (D100%)
CERAUTCINSM2CNA	AUT	Corto	NC	24V (D100%)
CERNORCINSM	NOR	Corto	NC	12V
CERNORCINSM1CNA	NOR	Corto	NC	12V (D100%)
CERNORCINSM1CPA	NOR	Corto	NA	12V (D100%)
CERNORCINSM2CNA	NOR	Corto	NC	24V (D100%)
CERNORCINSM2CPA	NOR	Corto	NA	24V (D100%)

Narrow series with thermal break

Electric strikes suitable for narrow profiles. As well as being of small size, they come with a radial-rotation tab that reduces the motion perimeter, which provides an easier mounting.



Technical features

- » Resistance: 3,000N
- » Sizes: 67 x 28 x 16.4mm.
- » Mounting: Reversible
- » Tab adjustment: 1mm
- » Working temperature: -15° to +40°
- » Stainless steel face plates

Electric features

Standard reel	Consumption
12V	440mA (12Vac) / 550mA (12Vdc)

Special reels		Consumption
AN	24V	130mA(24Vac)
CN	12V (D100%)	390mA(12Vdc)
CN	24V (D100%)	180mA (24Vdc)
CP	12V (D100%)	200mA (12Vdc)
CP	24V (D100%)	100mA (24Vdc)

Product code	Function	Face Plate	Acabado
CESCARNOR	NOR	-	-
CESCARNOD	NOR + D	-	-
CESCARAUT	AUT	-	-
CESCARAUD	AUT+D	-	-

CESNORCIN	NOR	C	Inox (stainless)
CESNODCIN	NOR + D	C	Inox (stainless)
CESAUTCIN	AUT	C	Inox (stainless)
CESAUDCIN	AUT+D	C	Inox (stainless)

CESNORLCI	NOR	LC	Inox (stainless)
CESNODLCI	NOR + D	LC	Inox (stainless)
CESAUTLCI	AUT	LC	Inox (stainless)
CESAUDLCI	AUT+D	LC	Inox (stainless)

CESNORLBI	NOR	LB	Inox (stainless)
CESNODLBI	NOR + D	LB	Inox (stainless)
CESAUTLBI	AUT	LB	Inox (stainless)
CESAUDLBI	AUT+D	LB	Inox (stainless)

CESNORLGI	NOR	LG	Inox (stainless)
CESNODLGI	NOR + D	LG	Inox (stainless)
CESAUTLGI	AUT	LG	Inox (stainless)
CESAUDLGI	AUT+D	LG	Inox (stainless)

* Standard: 12V; Fail-secure

* Available in special versions on request

Electric mortise strikes

Fire rated series

When applied to firebreak doors, the model must provide the following features:

- » Normal monitoring feature in order to prevent the strike from being unblocked.
- » Fail-secure, which ensures the blocking in absence of electricity supply.

Standard

Technical features

- » Resistance: 8,000N
- » Sizes: 75.4 x 28 x 21 mm.
- » Mounting: Reversible
- » Steel tab
- » Working temperature: -25°C to +70°C
- » Stainless steel face plates
- » Optional micro
- » EC certification according to EN 14846

Características eléctricas

Voltage	Function	Consumption
12V	NC	440mA(12Vac) / 550mA (12Vdc)
24V	NC	130mA (24Vac)
12V (D100%)	NC	390mA (12Vdc)
24V (D100%)	NC	180mA(24Vdc)

Product code	Face plate	Consumption	Micro
CELCARNORF	-	12V	-
CELCARNORF1CNA	-	12V (D100%)	-
CELCARNORF2CNA	-	24V (D100%)	-
CERNORBUIF	BU	12V	-
CERNORCINF	Corto	12V	-
CERNORCINF1CNA	Corto	12V (D100%)	-
CERNORCINF2CNA	Corto	24V (D100%)	-
CERNORCINFM	Corto	12V	Yes

Available in more versions on request



Rim Electric strikes

Rim Electric strikes

Rim Electric strikes, totally adjustable to panic exit devices for emergency exits.

Models

- » **Concave tab** (For the QUICK, LITE and UNIVERSAL series of panic exit devices)
- » **Flat flexible tab**, which allows for perfect adjustment with a 4mm margin. (For panic exit bars from the TOP series)

Mechanical features

- » Resistance: 8,000N (concave tab)
6,000N (flat tab)
- » Sizes: 141 x 40 x 24mm.
- » Installation: Reversible
- » Steel tab
- » Working temperature: -15° to +40°
- » Housing: Black (optional GREY) Supplied with eight 2.5mm supplements

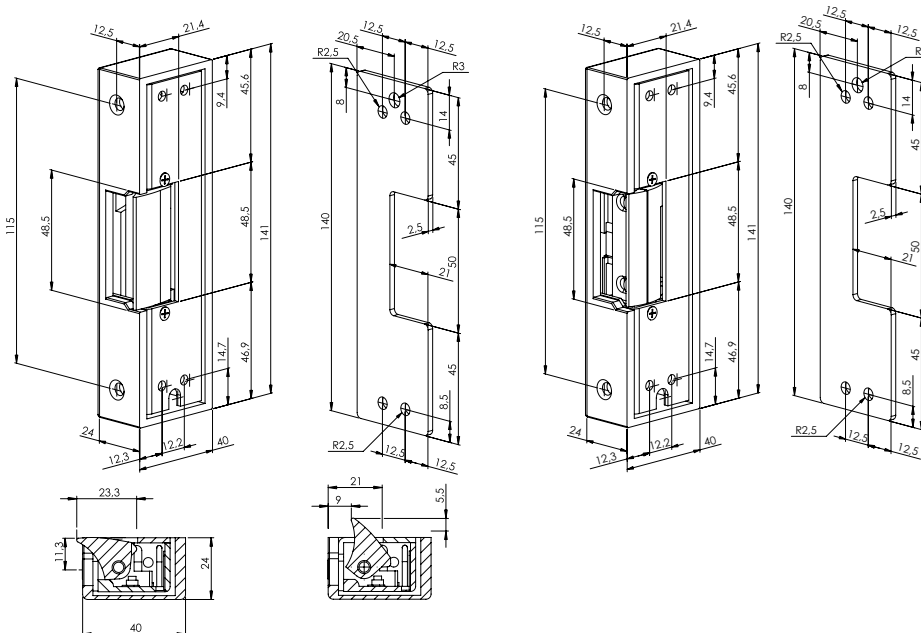


Standard coil		Consumption
	12V	560mA(12Vac)/700mA(12Vdc)
CN	12V (D100%)	180mA(12Vdc)

Special coils		Consumption
AN	24V	330mA(24Vac)
CN	24V (D100%)	180mA (24Vdc)
CP	12V (D100%)	150mA (12Vdc)
CP	24V (D100%)	120mA (24Vdc)

Product code	Function	Keeper	Voltage
CELNORPAN	NOR	Cóncave	12V
CELNORPAC	NOR	Cóncave	12V (D100%)
CELNORPAD	NOR	Flat	12V
CELNORPADC	NOR	Flat	12V (D100%)
CELAUTPAN	AUT	Cóncave	12V
CELAUTPAC	AUT	Cóncave	12V (D100%)
CELAUTPAD	AUT	Flat	12V
CELAUTPADC	AUT	Flat	12V (D100%)

Standard: 12V and 12V (D100%); Fail-secure
Available in special versions on request



Electromechanical locks

TCP electro-retractable lock

This security lock presents a similar mounting to that of regular electric strikes. The lock remains the mechanical element and the strike remains the electromechanical element. The lock is reversible, therefore there is no need of choosing the hand.

Application

Entrance doors.

Security and convenience

When the door is locked, the trigger is activated and the security lever is automatically projected.

The door will remain locked, with no need to close with the key. The locking can be released through the cylinder of the handle.

Electric control

When the strike receives the signal, the locking point is released.

Mechanical features

- » Sliding lever
- » Backset: 20, 25, 30, 35, 50, 60 mm.
- » Distance between axes: 85mm.
- » Follower: 8mm.
- » Stainless steel forend and strike.

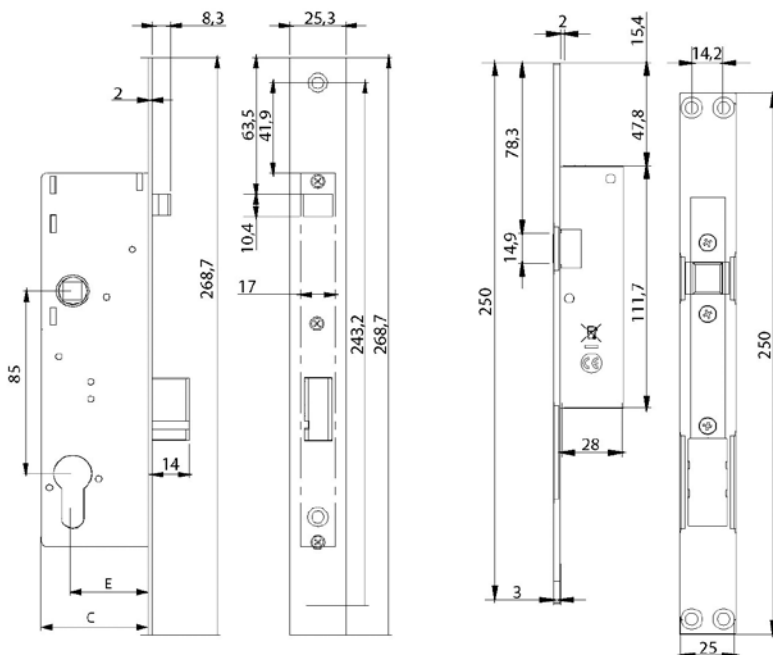
Electric features

- » Voltage: 12Vac/Vdc
- » Current at rest: 1150mA a 12Vdc
950mA a 12Vac
- » Working temperature: -10°C a 50°C



Product code	Backset (E*)	Depth (C*)
TCP20	20mm	34mm
TCP25	25mm	39mm
TCP30	30mm	44mm
TCP35	35mm	49mm
TCP40	40mm	54mm
TCP50	50mm	64mm
TCP60	60mm	74mm
TCP CER	* Only strike	

Dimensions



Fire doors hardware

CF60 solenoid Series

Mechanical features

- » CF60 lock, cylinder not included, panic function for all versions
- » Suitable to be used in FR doors
- » Certified according UNE-EN1125:2009
- » Certified according UNE-EN 12209: 2004.
- » Steel latch, suitable to be used in FR doors
- » Non-friction guide between latch and frontplate
- » 9x9 mm follower
- » Backset 65 mm
- » Distance between each axis 72 mm
- » Reversible (non handed)
- » Front plate finish: zinc plated (Z) or stainless steel (I)

Electrical features

- » Power supply: 12Vdc / 24Vdc
- » Consumption : max 550mA (12Vdc) / 270mA (24Vdc)
- » Consumption: stop 240mA (12Vdc) / 110mA (24Vdc)

Product code	Inner function	Frontplate finish
CF6SNPTRSR9ICER	No Panic	Stainless steel
CF6SNPTRSR9ZCER	No Panic	Zinc plated
CF6STRSR9ICEROB	Panic	Stainless steel
CF6STRSR9ZCEROB	Panic	Zinc plated
CF6SIRSR9ICEROB	Panic (Inwards opening)	Stainless steel

CF60 with panic function

Performance

- » Locking the cylinder, the external follower of the lock gets blocked and the door can not be opened. However, as it is an panic lock, the door can always be open from inside by activating the lever or the panic exit device.
- » With an electric signal, the electro switch clutches the inner mechanism of the lock allowing the door to be opened from outside operating the lever.
- » When the signal disappears, the lock becomes blocked again from outside.
- » Version "Inwards opening" (CF6SIRSR9ICEROB) - only with Stainless Steel frontplate.

Certification

- » CE certified according UNE-EN12209 & UNE-EN1125

CF60 without panic function

Performance

- » Locking the cylinder, the lock gets blocked and the door can not be opened, neither from inside nor from outside.
- » With an electric signal, the electro switch clutches the inner mechanism of the lock allowing the door to be opened from inside and outside operating the lever.
- » When the signal disappears, the lock becomes blocked again.

Certification

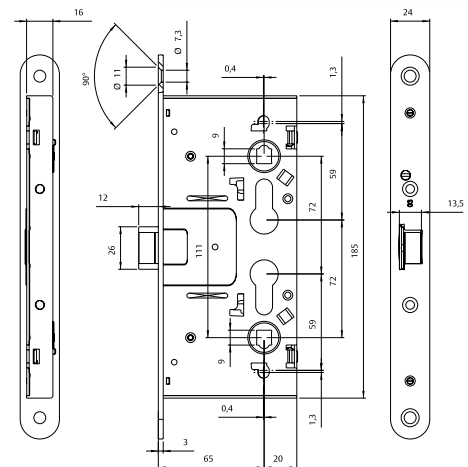
- » CE certified according UNE-EN12209.



CERTIFIED ACCORDING
UNE-EN
12209:2004
1125:2009



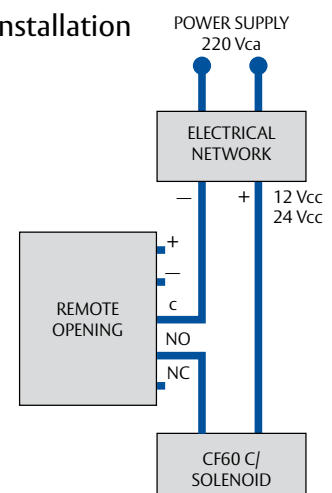
General dimensions



Power consumption

Voltage
12-24 VDC (-10%/+15%)
Power consumption
máx. 550 mA (12 VDC)
nominal 240 mA (12 VDC)
máx. 270 mA (24 VDC)
nominal 110 mA (24 VDC)

Installation



Electromechanical locks

Handle controlled electromechanical locks EFS

Applications

Handle controlled locks are suitable for medium traffic doors, such as offices, meeting rooms, etc.

High security and comfort

These locks are also characterized by being security locks. They feature self-locking function. When the door closes the deadbolt throws out automatically. In this locked state not only the deadbolt is projected but also the latch bolt is blocked.

Electrical function

They are electrically controlled and the signal could be given by an access control or any other remote system.

- » Fail secure (fail locked)
- » Fail safe (fail unlocked)

Electrically controlled side

- » Only outside handle is electrically controlled.
- » The lock can always be opened by inside handle.
- » Both sides handles are electrically controlled.

Mechanical features

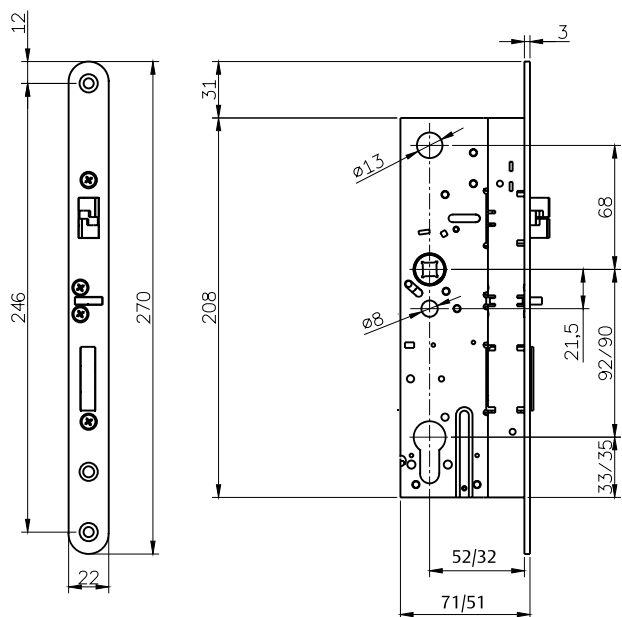
- » Double action latch
- » Bolt throw: 20 mm
- » Backset: 35, 55 mm.
- » Distance between axes: 92mm
- » Follower: 8x8 mm
- » Forend: 22mm
- » Finish: Stainless Steel forend, zinc plated lockcase
- » Hand: Right or left

Electrical features

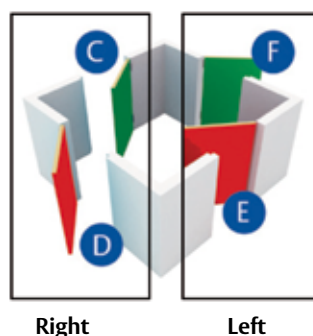
- » Voltage : 12Vdc
- » Current consumption: 220mA (12Vdc) (máx.900mA)
- » Operating temperature: -20°C to 60°C

Monitoring outputs

- » Bolt position
- » Trigger bolt position
- » Handle used
- » Sabotage loop

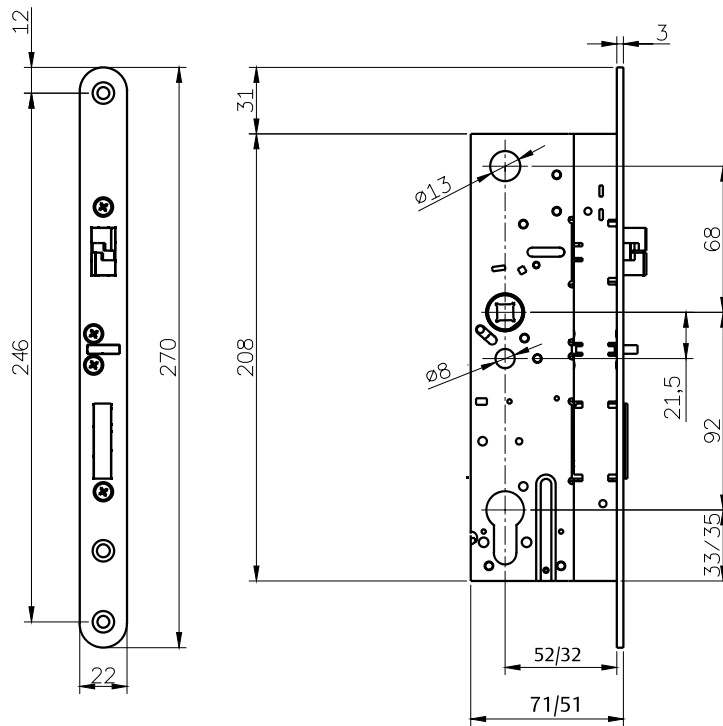


Handing



Electromechanical locks

Dimensions



Product code	Description	Backset	Handing	Function	Controlled side
EFS11352N1	Lockcase	35	Right	Fail secure	1 side (panic)
EFS11352N2	Lockcase	35	Left	Fail secure	1 side (panic)
EFS11352P1	Lockcase	35	Right	Fail safe	1 side (panic)
EFS11352P2	Lockcase	35	Left	Fail safe	1 side (panic)
EFS11552N1	Lockcase	55	Right	Fail secure	1 side (panic)
EFS11552N2	Lockcase	55	Left	Fail secure	1 side (panic)
EFS11552P1	Lockcase	55	Right	Fail safe	1 side (panic)
EFS11552P2	Lockcase	55	Left	Fail safe	1 side (panic)
EFS12352N1	Lockcase	35	Right	Fail secure	Both
EFS12352N2	Lockcase	35	Left	Fail secure	Both
EFS12352P1	Lockcase	35	Right	Fail safe	Both
EFS12352P2	Lockcase	35	Left	Fail safe	Both
EFS12552N1	Lockcase	55	Right	Fail secure	Both
EFS12552N2	Lockcase	55	Left	Fail secure	Both
EFS12552P1	Lockcase	55	Right	Fail safe	Both
EFS12552P2	Lockcase	55	Left	Fail safe	Both
CFS124AI	Striking plate				
CFS1314	Cable 3m				

Electromechanical locks

Motor locks EFM

Applications

Motor locks are suitable for high traffic doors, such as shopping centers, public buildings, etc.

High security and comfort

These locks are also characterized by being security locks. They feature self-locking function. When the door closes the deadbolt throws out automatically. In this locked state not only the deadbolt is projected but also the latch bolt is blocked.

Electrical function

They are electrically controlled and the signal could be given by an access control or any other remote system. The electrical signal retracts the deadbolt and you can easily open the door without using the door handle. It can be also open by key or internal handle.

» Fail secure (fail locked)

Opening time

When the signal disappears the lock is open during 10sec and then the lock automatically locks again.

Electrically controlled side

Both sides can be electrically controlled.

If internal handle is installed it always opens

*Mechanical opening by cylinder is always possible.

Mechanical features

- » Double action latch
- » Bolt throw: 20 mm
- » Backset: 35, 55 mm.
- » Distance between axes: 92mm
- » Follower: 8x8 mm
- » Forend: 22mm
- » Finish: Stainles Steel forend, zinc plated lockase
- » Hand: Right or left

Electrical features

- » Voltage : 12Vdc
- » Current consumption: 220mA (12Vdc) (máx.165mA)
- » Operating temperature: -20°C to 60°C

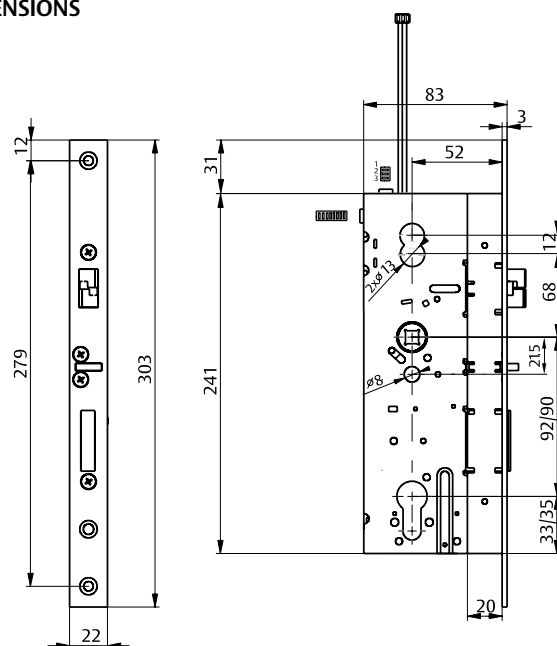
Monitoring outputs

- » Bolt position
- » Trigger bolt position
- » Handle used
- » Sabotage loop



Product code	Description	Backset
EFM00352N0	Lockcase	35
EFM00552N0	Lockcase	55
CFM0244AI	Striking plate	
CFM0514	Cable 5m	

DIMENSIONS



Electromechanical locks

Electric bolt locks

High security and convenience

The lock features two types of deadlocks that make it suitable for swing doors. It can be mounted on the door's frame and several models can be mounted horizontally, which makes it suitable for sliding doors.

Electric control

When the lock receives the signal, the deadlock goes back and the door can be opened by either pushing or pulling.

There are both fail-safe and fail-secure models available.

- » It allows for the air-lock interconnection of doors.
- » Programmable self-locking

Mechanical features

- » Deadlock: models:
 - Bolt: 20mm length and 18mm diameter Latch: 16.5 + 5mm length and 18mm diameter
- » Inlet: 25 mm
- » Depth: 35 mm
- » Face plates: 25mm
- » Case: nickel-plated steel
- » Face plates finish: chrome-plated steel
- » Strike plate: stainless steel

Electric features

- » Voltage : 12-24Vdc
- » Current at rest: 250mA a 12Vdc (max. 3A)
180mA a 24Vdc (max. 1,5A)



Product code	Deadlock	Feature	Backset
5553625	Bolt	Fail safe	25
5553825	Bolt	Fail secure	25
5553925	Latch	Fail secure	25

*Available backset 30mm, 35mm

Electromechanical locks

Electromagnetic locks are a good option to lock doors that need to be controlled by an electrical signal. At the same time, they are an appropriate solution in electrically controlled exit doors since they remain unlocked in case of power failure. They can work as a conventional electromechanical lock. Besides that, these locks are ideal to give extra security to other devices. A conventional application is to connect them to a panic exit bar with micro switch in order to increase the security of goods.

TESA offers several models of electromagnetic locks according to different requirements (voltage, strength, door type, etc.). Additionally, there are accessories which make it possible to adapt these locks to each installation.

Function: Normally open (fail safe), when there is no power, there is not holding force.

Monitoring:

- » Hall Sensor: Gives the status of the lock (locked/unlocked). Includes a LED for visual signalization.
- » Reed Sensor: Door position sensing (open/close).

Rim electromagnetic locks

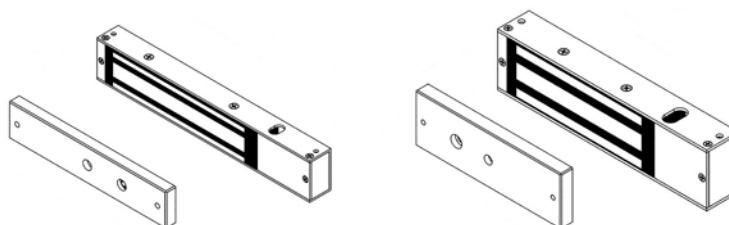
Rim electromagnetic locks are a good choice when an easy installation is required without having to make a recess in the door. They allow different installations: vertical and horizontal, in

single or double doors and in out-swinging or in-swinging doors thanks to the optional brackets supplied.

Standard range

Características técnicas

- » Aluminium housing
- » Operation temperature: -10°C to +55°C
- » Voltage: 12/24Vdc (Selectable) Tolerance ± 10



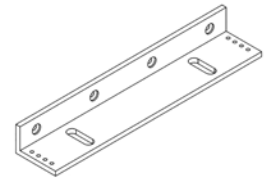
Product code	Holding force	Monitoring	Dimensions	Weight	Consumption
CEM300SS0E	3000N	Hall	Lock: 250 x 42,2 x 25mm. Armature: 185 x 38,5 x 12mm.	2Kg	500mA (12Vdc) 250mA(24Vdc)
CEM300SS0G	3000N	Hall + Reed	Lock: 238 x 48 x 26,5mm. Armature: 185 x 38 x 12,5 mm.	2Kg	500mA (12Vdc) 250mA(24Vdc)
CEM600SS0E	6000N	Hall	Lock: 266 x 67 x 40 mm. Armature: 185 x 60,8 x 16mm.	4Kg	500mA (12Vdc) 250mA(24Vdc)
CEM600SS0G	6000N	Hall + Reed	Lock: 266 x 72 x 40mm. Armature: 185 x 61 x 16mm.	4Kg	500mA (12Vdc) 250mA(24Vdc)
CEM600DS0G	2 X 6000N	Hall + Reed	Lock: 532 x 72 x 40mm. Armature: 185 x 61 x 16mm.	8Kg	1A (12Vdc) 500mA (24Vdc)

Rim electromagnetic locks

“L” Brackets for narrow door frames

“L” brackets are required when the frame is narrow and there is no space to mount the electromagnet.

Product code	Description
SLCEM300E	Bracket for CEM300SSE when the space of the frem is less than 42mm
SLCEM300G	Bracket for CEM300SSG when the space of the frem is less than 42mm
SLCEM600E	Bracket for CEM600SSE when the space of the frem is less than 60mm
SLCEM600G	Bracket for CEM300SSG when the space of the frem is less than 60mm

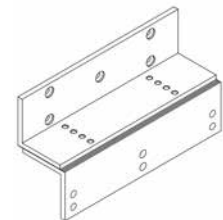


“Z” Brackets for In-swinging doors

Electromagnetic locks are designed to be installed in out swinging doors. Therefore, for inwards-opening doors a “Z” shaped

bracket is needed to ensure that the electromagnet is inside and prevents tampering.

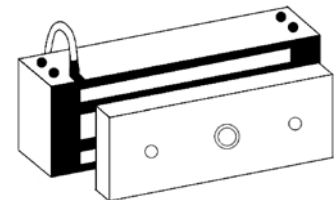
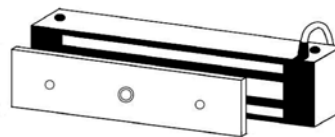
Product code	Description
SZCEM300E	“Z” bracket for CEM300SS0E
SZCEM300G	“Z” bracket for CEM300SS0G
SZCEM600E	“Z” bracket for CEM600SS0E
SZCEM600G	“Z” bracket for CEM600SS0G



High range

Technical features

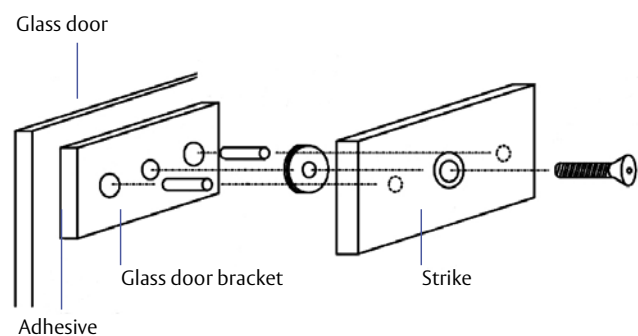
- » Aluminium housing
- » Operation temperature: -40°C to +60°C
- » Voltage: 12/24Vdc (Auto)



Product code	Holding force	Monitoring	Dimensions	Weight	Consumption
SCGG030SS	3000N	Hall	Lock: 203 x 47 x 38mm. Armature: 153 x 40 x 12mm.	2,8Kg	300mA(12Vcc) 150mA(24Vcc)
SCGG054SS	6000N	Hall	Lock: 203 x 74 x 45mm. Armature: 153x 70 x 14mm.	5Kg	250mA(12Vcc) 125mA(24Vcc)

Accessories for glass doors

To securely mount Electromagnet to glass doors, it is necessary to install a Glass DoorBracket. The bracket is affixed directly to the glass via a specially engineered adhesive and the strike plate is then affixed to the bracket conventionally. A stainless steel self adhesive “dress plate” is included. The plate will prevent viewing the glass door bracket through the glass, from the outside.



Product code	Description
SCGDB00S	Glass Door Bracket
SCGAKG00S	Adhesive Kit (up to 10 applications)

Mortise electromagnetic locks

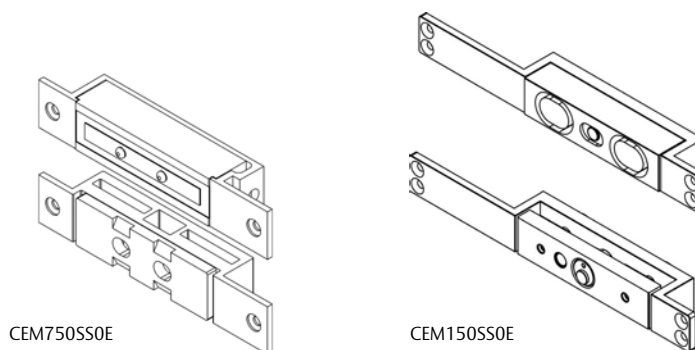
These locks are embedded in the door avoiding visual impact and offering several mounting options. They may be installed in any position; horizontally, vertically, bottom, top or side in sliding doors and swinging doors. The mortise electromagnetic locks

combine magnetic force with mechanical shear force. The share force comes from two bolts which are located in the electromagnet and sit on the seats placed in the strike plate.

Standard range

Technical features

- » Aluminium housing
- » Operation temperature: -30°C to +55°C
- » Voltage: 12/24Vdc (Selectable)
Tolerance ± 10

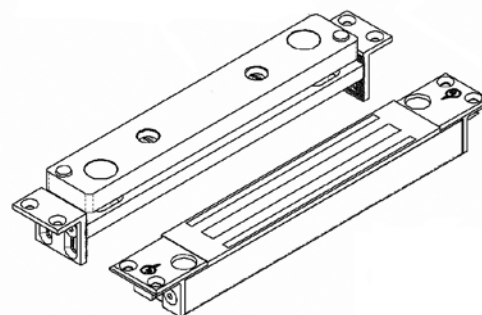


Product code	Holding force	Monitoring	Dimensions	Weight	Consumption
CEM750SS0E	5700N	Hall	Lock: 167 x 30 x 27,5mm. Armature: 167 x 30 x 26 mm.	1,2Kg	420mA(12Vcc)210mA(24Vcc)
CEM150SS0E	15000N	Hall	Lock: 267 x 30 x 34mm. Armature: 267 x 30 x 34mm.	1,8Kg	500mA(12Vcc)320mA(24Vcc)

High range

Technical features

- » Stainless Steel housing
- » Operation temperature: -40°C to +60°C
- » Voltage: 12/24Vdc (Auto)



Product code	Holding force	Monitoring	Dimensions	Weight	Consumption
SCGG030EN	3000N		Lock: 181 x 29 x 24mm. Armature: 181 x 29 x 25mm.	1,2Kg	68mA(24Vcc)
SCGG045ES	6000N	Hall	Lock: 268 x 38 x 30mm. Armature: 275 x 37 x 36mm.	2,8Kg	320mA(12Vcc)170mA(24Vcc)

Accessories

Key switches

Key switches activates electrical circuits by turning a key.

Mechanical features

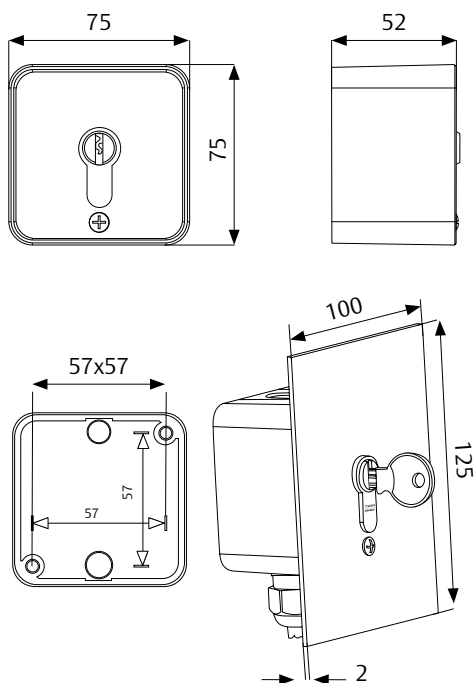
- » Protection class: IP 54
- » These key switches require a 30x10, 8 position cylinder with the cam placed at 90° to the left. (Cylinder cam 25° for maintained models with key removal).
- » Dimensions:
Aluminium box: 75 x 75 x 52mm.
Frontplate (Mortise model): 100 x 125mm.

Electrical features

- » Micro-switch:
Máx. Voltage: 220Vac
Máx. Current draw: 5A
- » Led: Máx. Voltage: 12Vac

Available models:

- » Surface or Mortise model
- » 2 or 3 posiciones
- » Optional LED



Functions

The multifunctional micro switch allows the user to set the appropriate function for the application. The same model can operate with both momentary or maintained contact.

Applications

- » **Momentary contact:** In applications where the micro-switch activation operates the electrical circuit. Example: garage door. Once the key is turned, it activates the microswitch and, later, a spring will prompt the return for removing the key.
- » **Maintained contact:** In applications where the electrical circuit have to remain activated. Example: In hotel rooms as energy saving device. When turning the key, it will activate the microswitch and remain fixed.

There are two applications available only by changing the position of the cylinder cam.

1. **Cam 90° to the left:** (9 hours): When turning the key the circuit is clo-sed. The key must return to the original position to remove it. In that case the circuit will be disconnected.
2. **Cam 25° to the right:** It allows to maintain the circuit connected or disconnected when removing the key

Product code	Position	LED	Installation
CEL1LE	2	Si	Mortise
CEL1LS	2	Si	Surface
CEL1ME	2	No	Mortise
CEL1MS	2	No	Surface
CEL2LE	3	Si	Mortise
CEL2LS	3	Si	Surface
CEL2ME	3	No	Mortise
CEL2MS	3	No	Surface

*Cylinder not included

Accessories

Power supplies

Application

» Electric power supply for all kinds of electromechanical, electromagnetic locks and direct current electric strikes..

Features

- » Input installation: 220 Vac/50 Hz.
- » Size: 122 x 60 x 35mm.
- » Connector wire equipped with earth connection.
- » Including support for installation.



Product code	Output voltage	Current
EA700_000000	12Vdc	5A
EA701_000000	24Vdc	2,7A

Transformer 12Vac

Application

» Electric power supply for electric strikes and low consumption electromechanical locks.

Features

- » Input installation 220Vac/50 Hz.
- » Output voltage 12Vac/0,5A.
- » Sizes: 79 x 44 x 32mm.
- » Internal fuse.
- » Weight: 0,325 K



Product code
TRFCERBIT

Power supply 24Vdc

Application

» Electric power supply for all kinds of electromechanical, electromagnetic locks and direct current electric strikes.

Features

- » Input installation: 220 Vac/50 Hz.
- » Output: 24Vdc/1,2 A.
- » Size: 91 x 58 x 54mm.
- » Weight: 0,2 Kg.
- » Includes green led



Product code
FA24DC07A

Lead covers

Lead covers are needed for power transfer to the devices installed on the leaf of the door. The lead cover consists on a cable and the base to attach the cable to the door (frame and leaf).



Mortise models

Product code	Length	Internal diameter
EA280_100000	250mm.	7,5 mm.
EA281_100000	460mm.	7,5 mm.

Rim models

Product code	Length	Internal diameter
PASCAB00S	300mm.	7,5 mm.

Accessories

Fire prevention magnetic door holder

Magnetic door holders are used in fire protection doors. These holders keep the doors open during day to day operations .When smoke is detected the fire alarm transmit a signal which cuts off the power feed and the mechanism releases the door. This avoids fire and smoke expansion. These door holders also have a push button which allows releasing and closing the door manually.

Door holders can also be installed in any door that needs to be kept open.

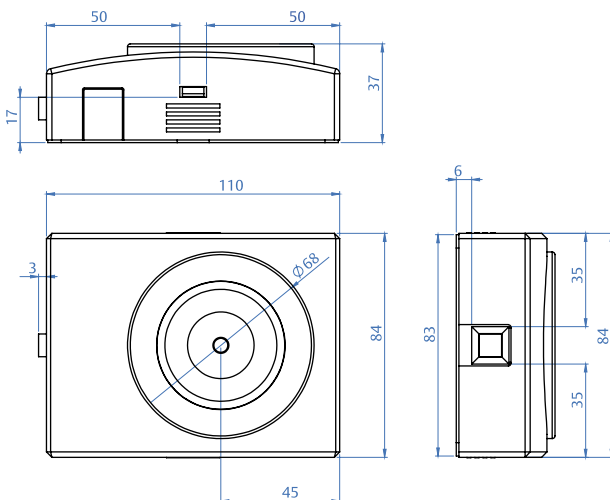
Product code	Description
CEM4024PB	Magnet and adjustable keeper plate

Technical features:

- » EN 1155 Certified
- » Holding force: 40Kg
- » Voltage: 24Vdc (1,6W)
- » Electronic protection integrated
- » Protection magnet :IP54 / conexion: IP42
- » 30% Glass fibre housing , resistant to shocks, color deterioration and corrosion.
- » Articulated armature plate (ajustable up to 60°)
- » Interchangeable cable entry
- » Interchangeable push button position
- » Reliable, no mechanical part
- » Without residual magnetism
- » Silence operation



Dimensions



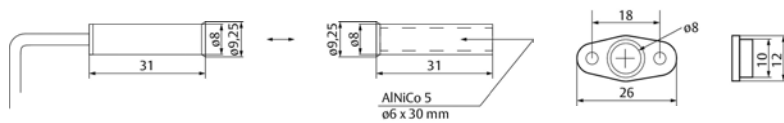
Accessories

Door status detector

Magnetic door status detectors are operated via a Reed switch that is activated by a magnetic field. The sensor is mortised on the frame and the magnet is mounted on the door's leaf. If the door is locked, the magnet acts on the contact (closed contact).

Mortise mounting on aluminium, doors, wood and windows.

Dimensions



Technical features

- » Contact type: NO/NC
- » Max. Switching interval: 15mm
- » Class of protection: IP 67
- » Dimension: Ø 8 x 31 mm
- » Cable length: 6m
- » Number of wires: 3
- » Material housing: plastic
- » Operating temperature range: -25°C a +70°C

Product code
10382U-6-----10



Technical features

- » Contact type: NA
- » Max. Switching interval: 13mm
- » Class of protection: IP 67
- » Dimension: Ø 8 x 35 mm
- » Cable length: 6m
- » Number of wires: 4
- » Material housing: plastic
- » Operating temperature range: -40°C a +70°C
- » VdS Class: C

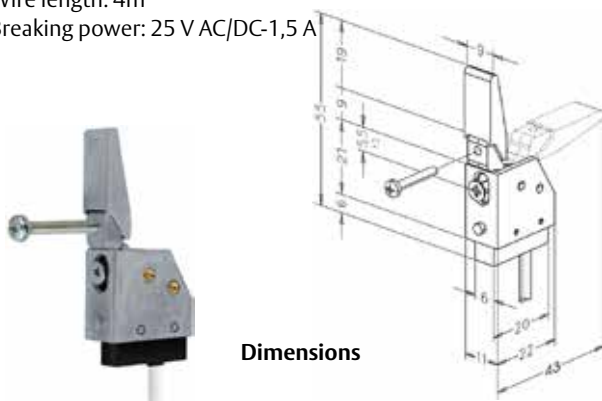
Product code
10295-6-----10

Lever status detector

This micro contact alerts of the lever status (blocked door/ unblocked door). It is mounted behind the strike on the door's frame, being activated by the lever's motion. There are no restrictions in terms of lever projection.

Technical features

- » Type of contact: NO/NC
- » IP 54 protection
- » Minimum reaction distance: 3mm
- » Wire length: 4m
- » Breaking power: 25 V AC/DC-1,5 A



Dimensions

Product code
BSC4M0000

Steel installation set 10296

Mounting component for installing the round reed contact 10295 in ferromagnetic materials, such as steel.



Product code
10296-----10



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