

# ELECTROMAGNETIC LOCKS

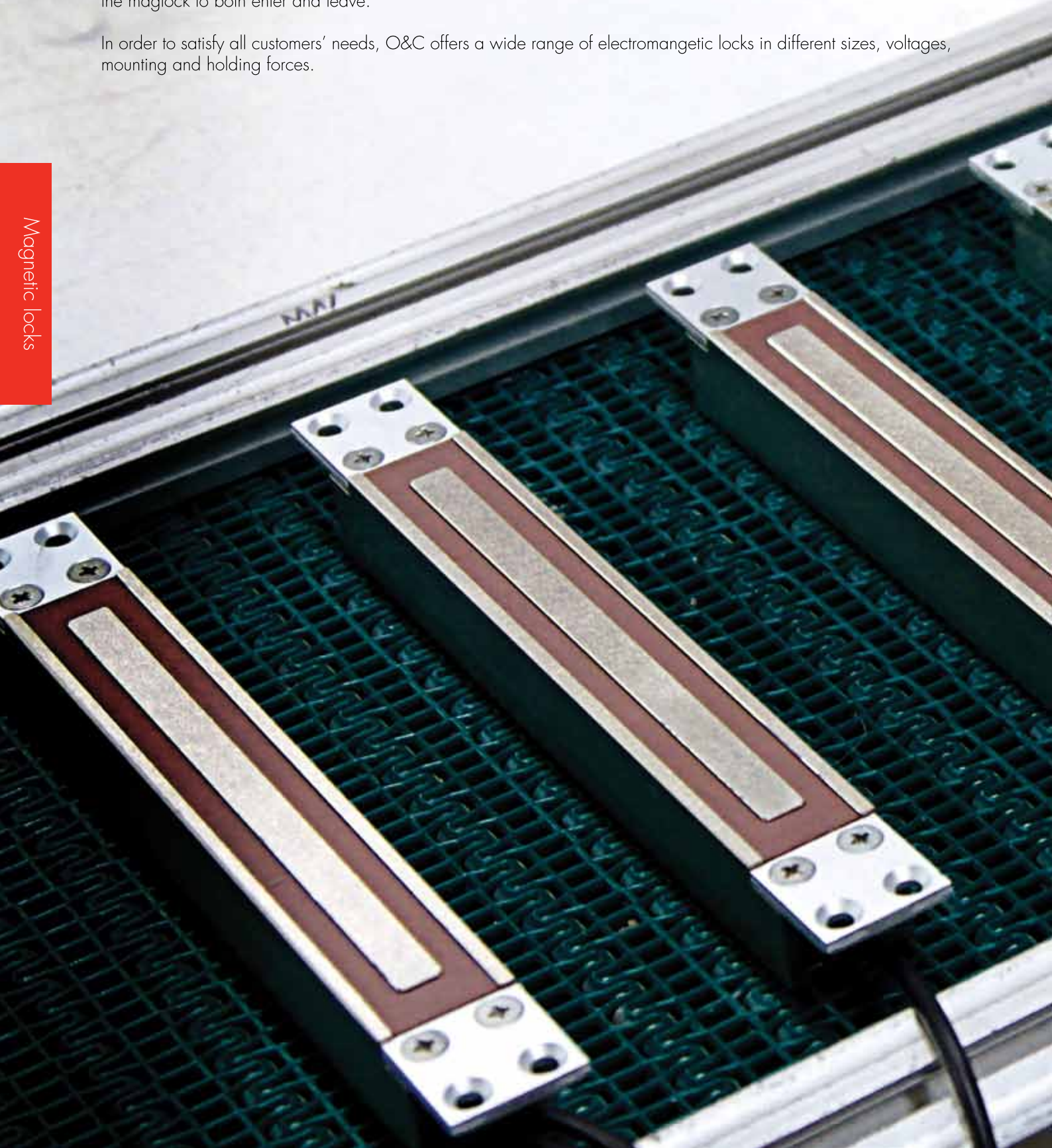
Magnetic locks (commonly called maglocks) are a more and more popular choice among security installers for being simple to install, durable, reliable and very resistant.

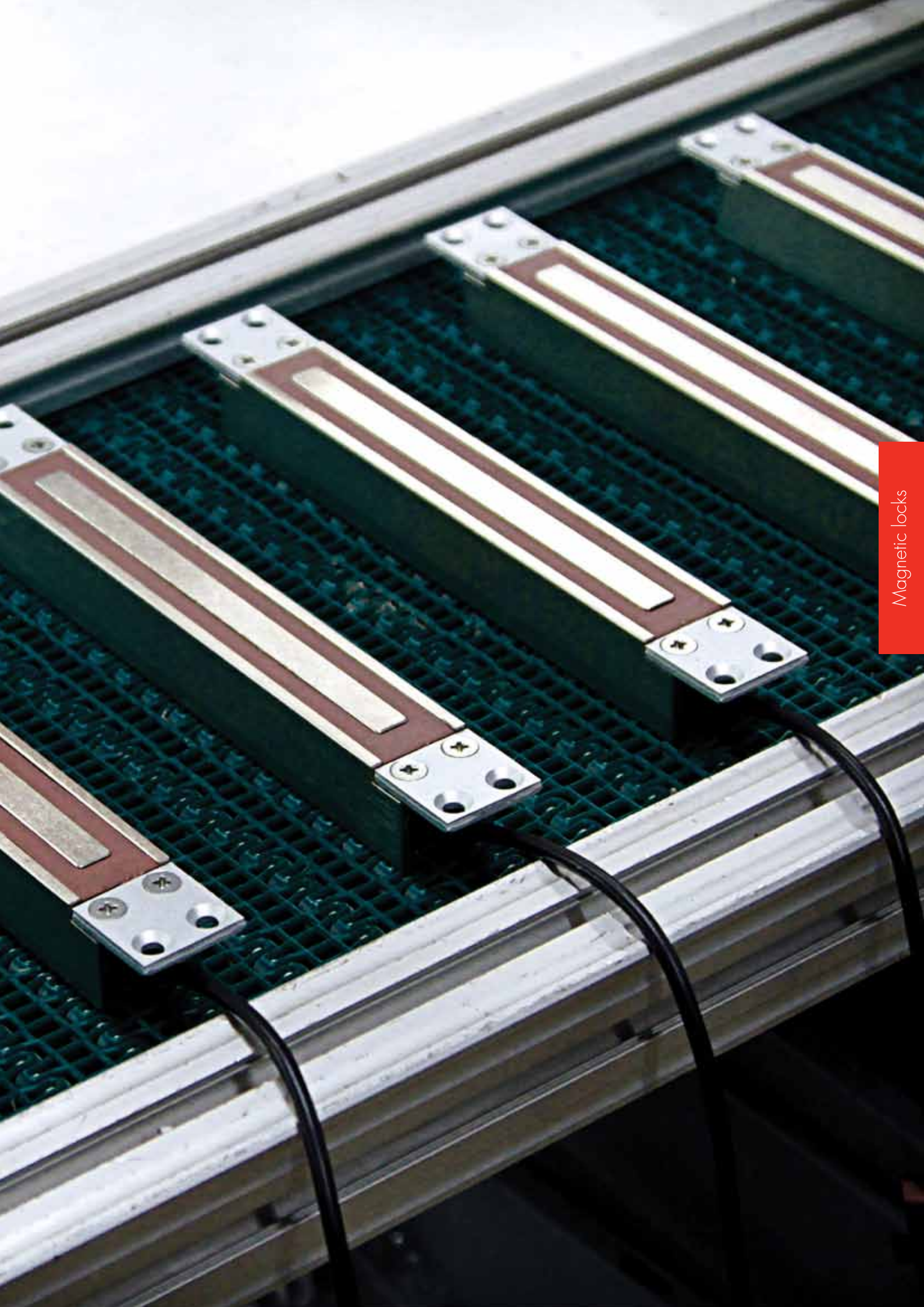
A large electro-magnet is mounted on the door frame and the corresponding counterplate is mounted on the door.

When the magnet is powered and the door is closed, the counterplate is held fast to the magnet. One must unlock the maglock to both enter and leave.

In order to satisfy all customers' needs, O&C offers a wide range of electromangetic locks in different sizes, voltages, mounting and holding forces.

Magnetic locks





Magnetic locks

# BASIC



## Series MEX

Basic electromagnetic locks are the perfect locking solution for **emergency doors** and access control systems. In case of power failure, all doors will automatically open, making it safe for the occupants to exit.

They are available for mortise and rim installations with a wide range of brackets allowing an easy installation on any kind of doors and door frames.

Moreover, our vandal protection system secures the electromagnetic lock against tampering, theft or removal.

Our MEX 70 is especially designed for small applications such as closets, cabinets, showcases, drawers, lockers, etc.

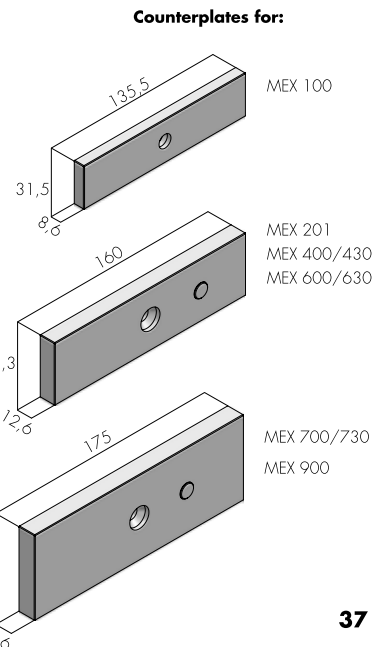
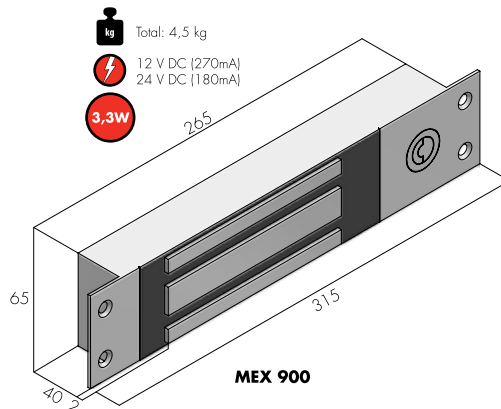
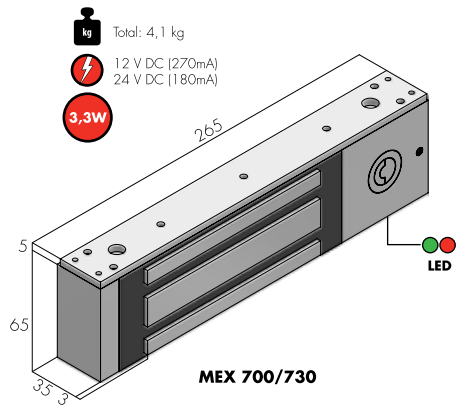
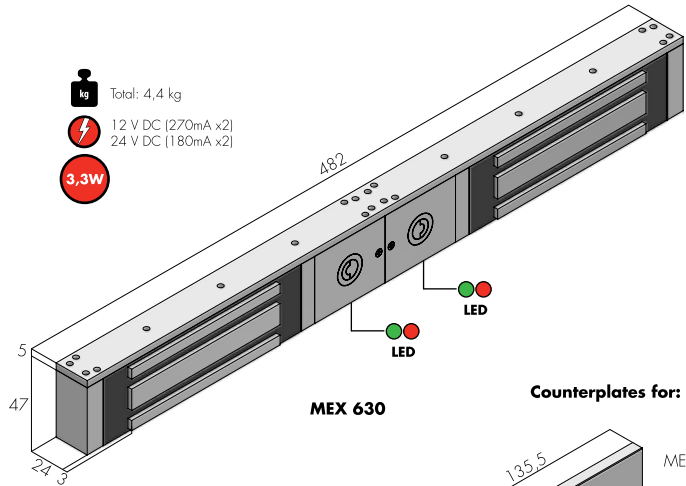
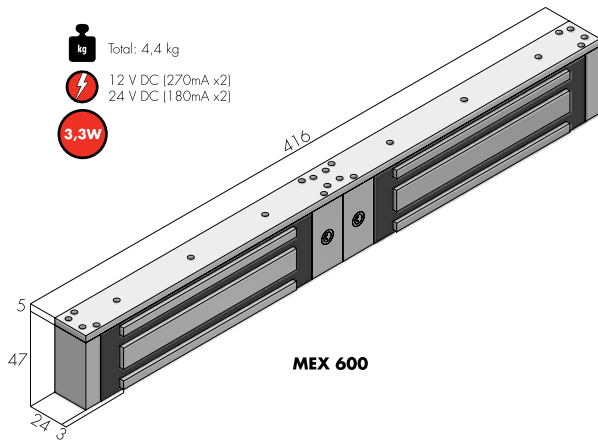
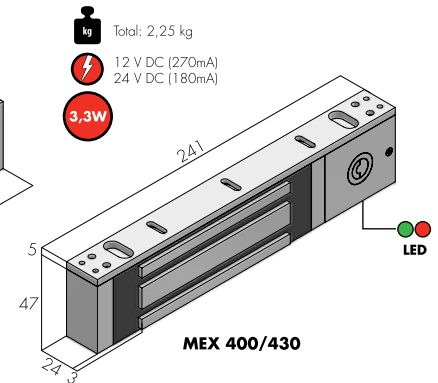
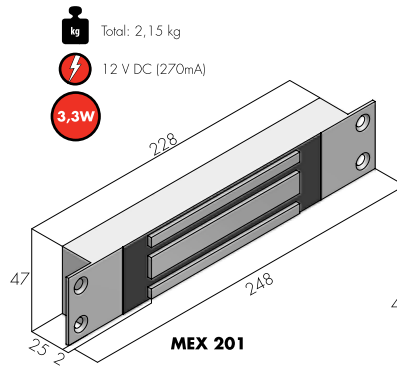
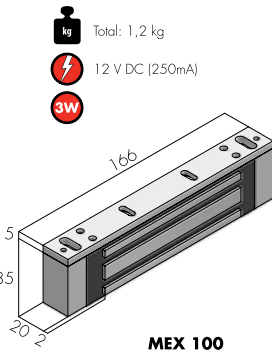
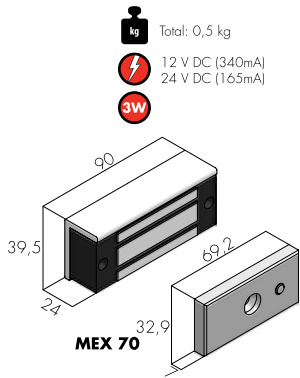
## Technical features

- Dual voltage 12/24V DC (automatic switch on selected models)
- Reed + LED monitoring (open/closed)
- Low power consumption
- Electronic protection
- Vandal Protection
- Timer (2 to 8 seconds)
- Guaranteed 3 years

# References and features

Holding force	12 Vdc	Manual Dual voltage 12/24 Vdc	Automatic Dual voltage 12/24 Vdc	Mortise Rim	Reed + Timer	LED	L	Z	U	Mounting kit for RF fire doors (optional) MRF 810	References
							Outward opening doors	Inward opening doors	Glass doors		
700 N		•		•	•			MBAX 70	MHAX 70		MEX 70
1.800 N	•			•	•		MBEX 180	MBAX 180	MHAX 180		MEX 100
3.000 N	•			•							MEX 201
3.000 N			•		•		MBEX 300	MBAX 300	MHAX 300	•	MEX 400
3.000 N			•		•	•	MBEX 300	MBAX 300	MHAX 300	•	MEX 430
3.000 N x2			•		•	•	MBEX 300*	MBAX 300*	MHAX 300*	•	MEX 600
3.000 N x2			•		•	•	MBEX 300*	MBAX 300*	MHAX 300*	•	MEX 630
6.500 N			•		•		MBEX 600	MBAX 600			MEX 700
6.500 N			•		•	•	MBEX 600	MBAX 600			MEX 730
6.500 N			•	•	•						MEX 900

\* Remember to order one unit for each electromagnetic lock!

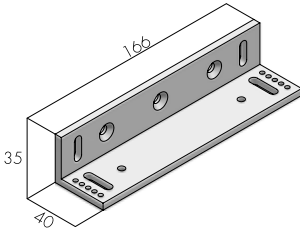


Magnetic locks

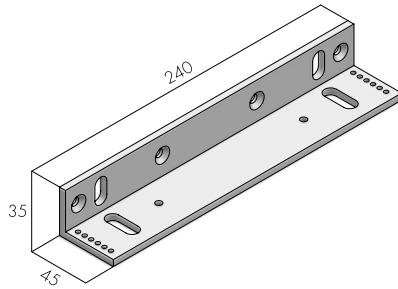
# BRACKETS FOR BASIC ELECTROMAGNETIC LOCKS

## L For outward opening doors.

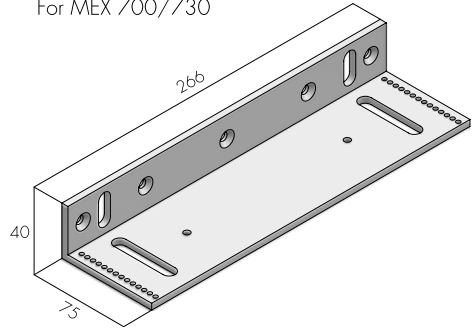
**MBEX 180**  
For MEX 100



**MBEX 300**  
For MEX 400/430/600\*/630\*

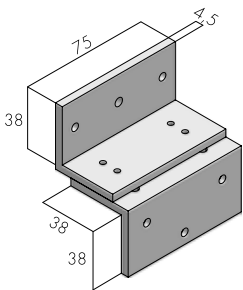


**MBEX 600**  
For MEX 700/730

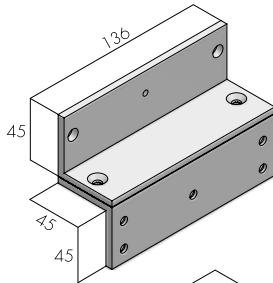


## Z For inward opening doors.

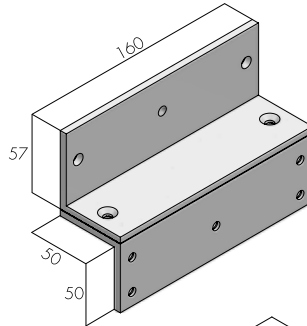
**MBAX 70**  
For MEX 70



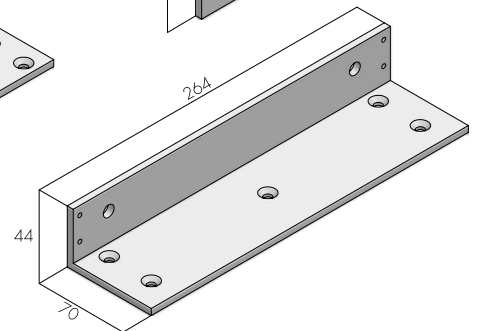
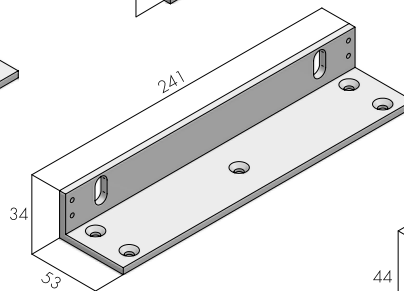
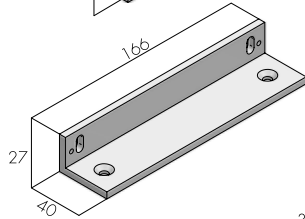
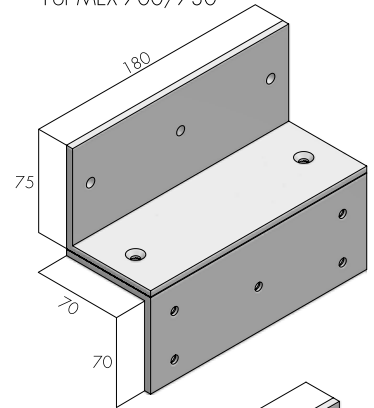
**MBAX 180 (3 units)**  
For MEX 100



**MBAX 300 (3 units)**  
For MEX 400/430/600\*/630\*

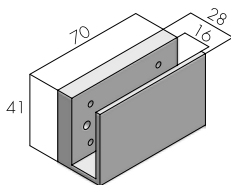


**MBAX 600 (3 units)**  
For MEX 700/730

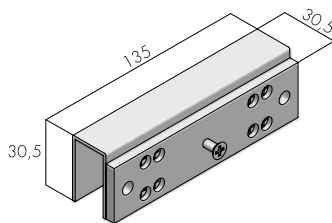


## U For glass doors.

**MHAX 70**  
For MEX 70

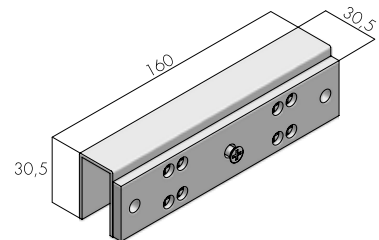


**MHAX 180**  
For MEX 100



Max. glass thickness: 12 mm

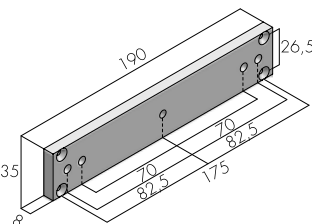
**MHAX 300**  
For MEX 400/430/600\*/630\*



Max. glass thickness: 16 mm

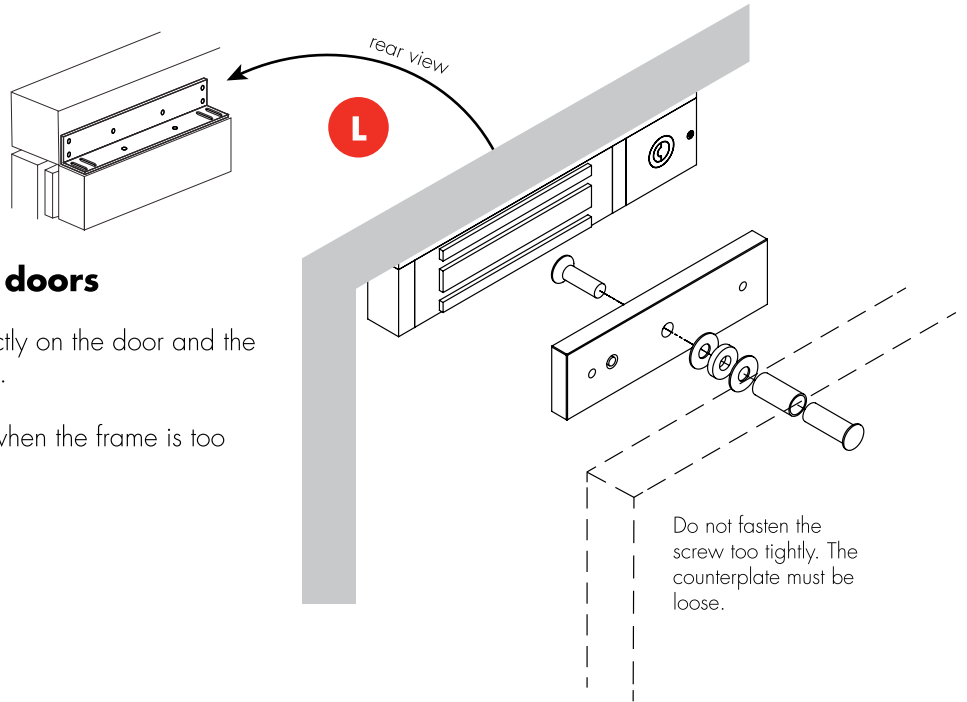
## Mounting kit for fire doors

**MRF 810**  
For MEX 400/430/600\*/630\*



\* Remember to order one unit for each electromagnetic lock!

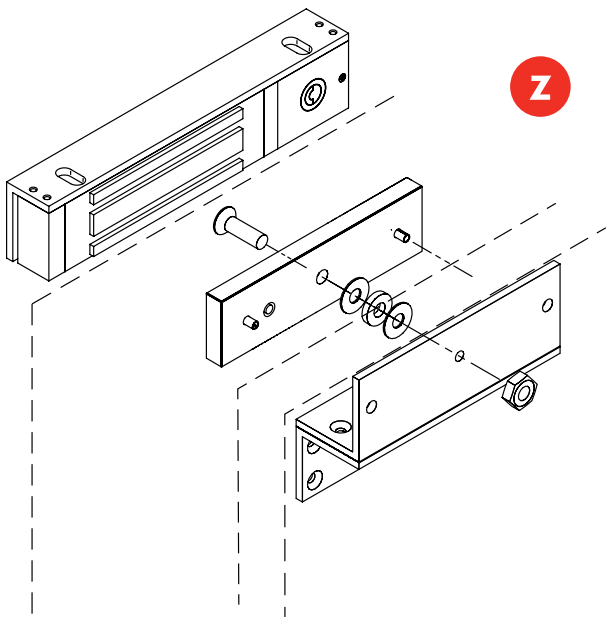
# MOST COMMON INSTALLATIONS



## For outward opening doors

The counterplate is installed directly on the door and the magnetic lock beneath the frame.

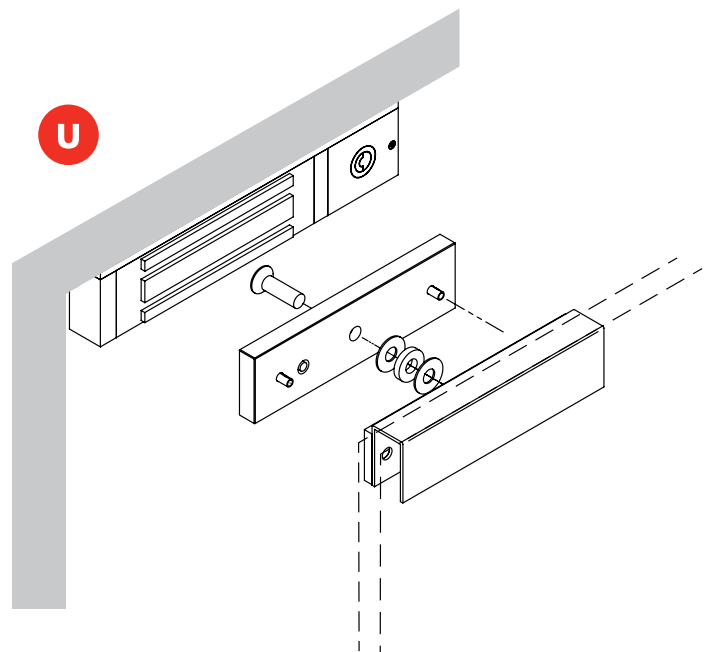
An "L" bracket may be needed when the frame is too narrow.



## For inward opening doors

The counterplate is installed on a "Z" bracket mounted on the interior door leaf directly to the door.

The electromagnetic lock has to be installed on the frame, on the opposite side of the hinges.



## For glass doors

The counterplate is installed directly on the door leaf. The electromagnetic lock has to be installed under the frame.

An "L" bracket may be needed when the frame is too narrow.

Please remember that the distance between the glass door and the frame needs to be at least 3 mm.

# MINI



## Series ME

The mini electromagnetic locks can be integrated into the most sophisticated interior decorations, to satisfy our most creative customers.

Being **the thinnest on the market** (only 30 mm), they can fit most door frames, offering at the same time a high holding force and a very high sensitivity. Any attempt of manipulation will immediately activate the in built monitoring.

In order to certify our quality, O&C tests every mini electromagnetic lock individually and attaches the test results to the packaging.

Also available in waterproof, the ideal solution for exterior doors and gates.

## Technical features

- Dual voltage 12/24V DC
- Reed monitoring (open/closed)
- Low power consumption
- Electronic protection
- Guaranteed 3 years

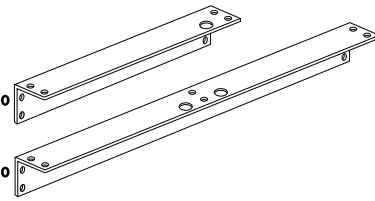
## Certification ME 500/510

\* IP65 (protected against dust and water)

# References and features

MBE 800 included with ME 400/410/420

MBE 805 included with ME 600/610/620

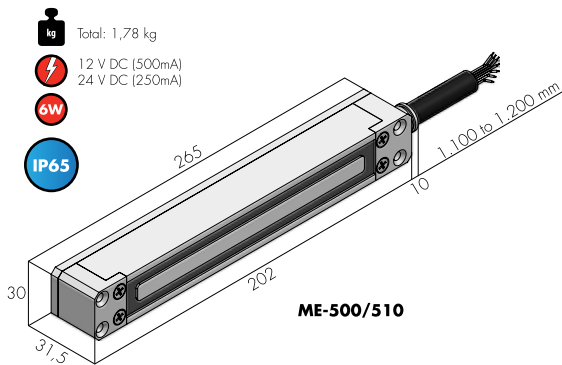
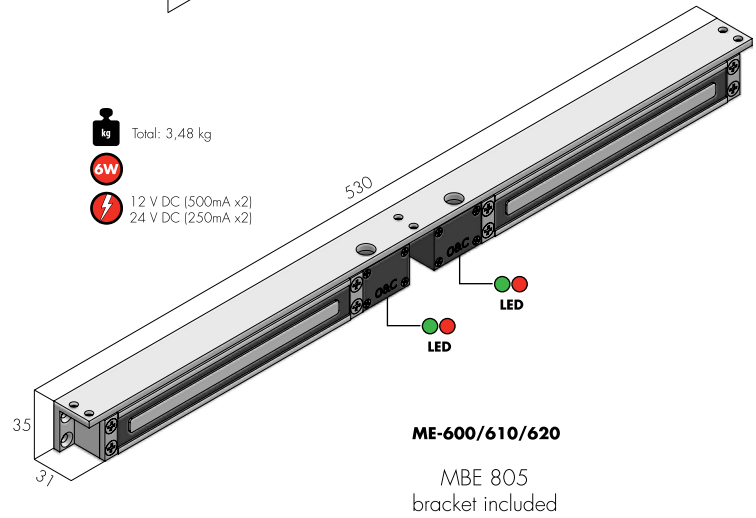
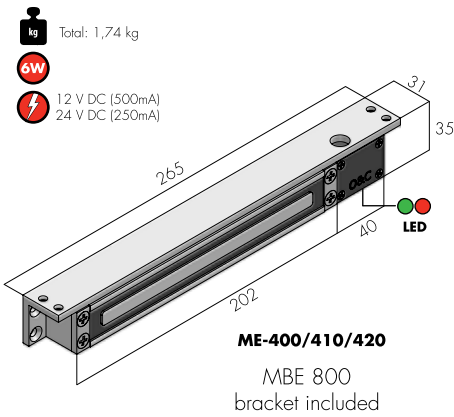
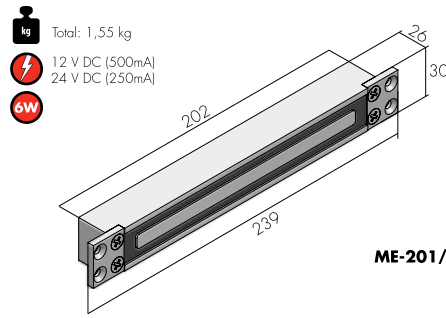
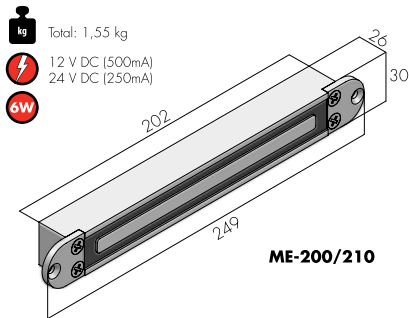


Holding force	Dual voltage 12/24 Vdc	Mortise	Rim	LED	Monitoring	L	Z	U	Bracket cover for (optional):		Mounting kit for RF fire doors (optional)	Mounting kit for sliding doors (optional)	References
						Outward opening doors	Inward opening doors	Glass doors	FSC 821	FSC 822	MRF 810	MSA 803	
2.800 N	•	•										•	ME 200
2.800 N	•	•										•	ME 201
2.800 N	•	•			•							•	ME 210
2.800 N	•	•			•							•	ME 211
2.800 N	•	•	•		•	MBE 806	MBA 801/802	MHA 804	•	•	•		ME 400
2.800 N	•	•	•		•	MBE 806	MBA 801/802	MHA 804	•	•	•		ME 410
2.800 N	•	•	•	•	•	MBE 806	MBA 801/802	MHA 804	•	•	•		ME 420
2.500 N	•	•	•			MBA 806/808	MBA 801/802						ME 500
2.500 N	•	•	•		•	MBA 806/808	MBA 801/802						ME 510
2.800 N x 2	•	•	•			MBE 807	MBA 801/802*	MHA 804*	•	•	•		ME 600
2.800 N x 2	•	•	•		•	MBE 807	MBA 801/802*	MHA 804*	•	•	•		ME 610
2.800 N x 2	•	•	•	•	•	MBE 807	MBA 801/802*	MHA 804*	•	•	•		ME 620

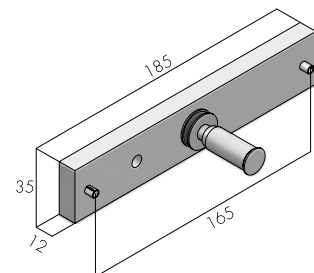
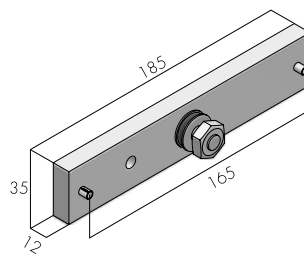
IP 65

IP 65

\* Remember to order one unit for each electromagnetic lock!



Counterplate mounting kit included



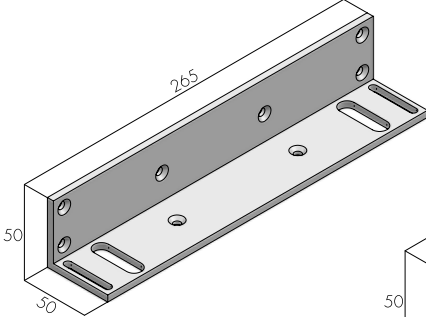
**WATERPROOF**

Magnetic locks

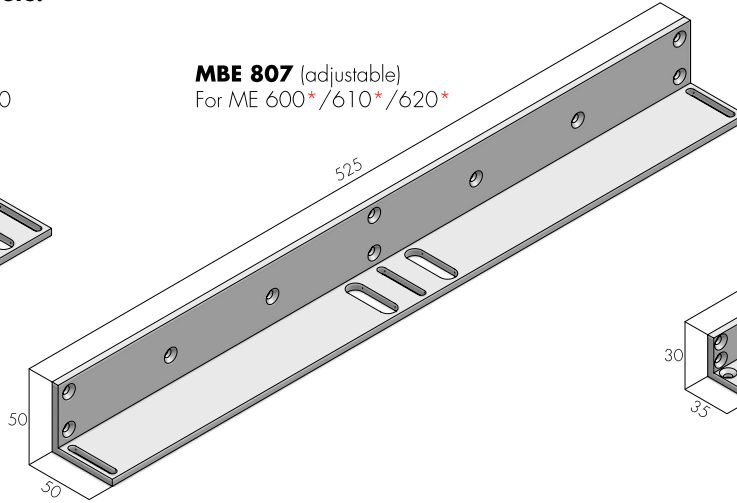
# BRACKETS FOR MINI ELECTROMAGNETIC LOCKS

## L For outward opening doors.

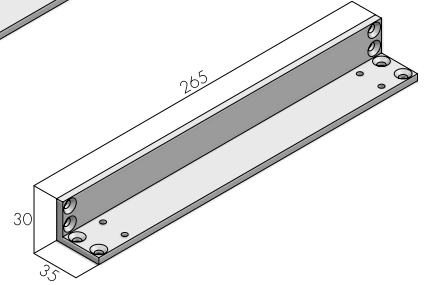
**MBE 806** (adjustable)  
For ME 400/410/420/500/510



**MBE 807** (adjustable)  
For ME 600\*/610\*/620\*

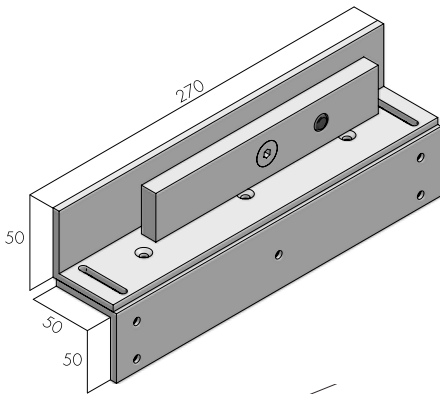


**MBE 808**  
For ME 500/510



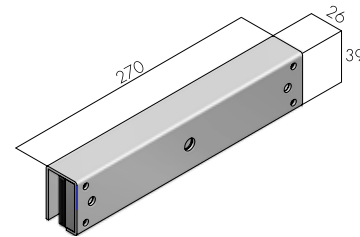
## Z For inward opening doors.

**MBA 801/802**  
For ME 400/410/420/500/510/600\*/610\*/620\*

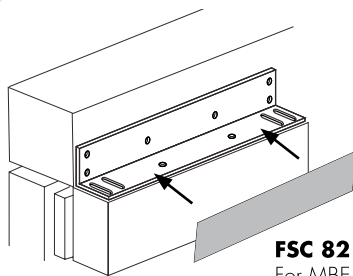


## U For glass doors.

**MHA 804**  
For ME 400/410/420/600\*/610\*/620\*

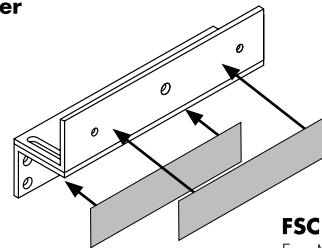


Glass thickness: 8 to 14 mm



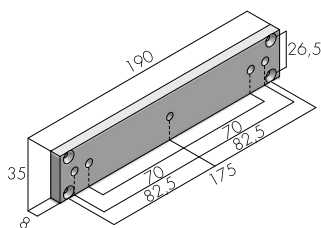
**FSC 821**  
For MBE 806/807

### Bracket cover



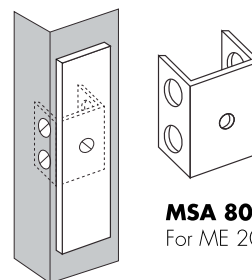
**FSC 822**  
For MBA 801/802

### Mounting kit for fire door



**MRF 810**  
For ME 400/410/420/600\*/610\*/620\*

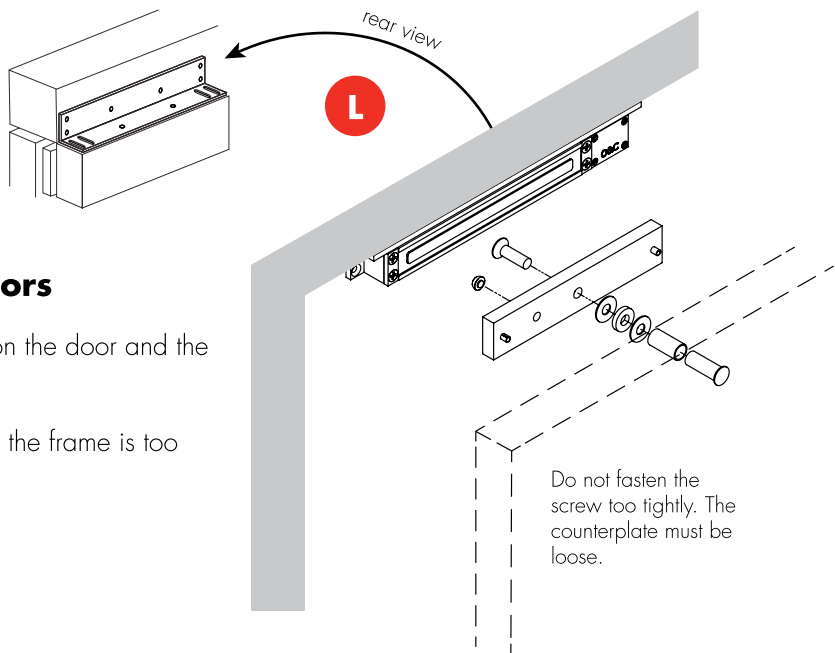
### Mounting kit for sliding doors



**MSA 803**  
For ME 200/201/210/211

\* Remember to order one unit for each electromagnetic lock!

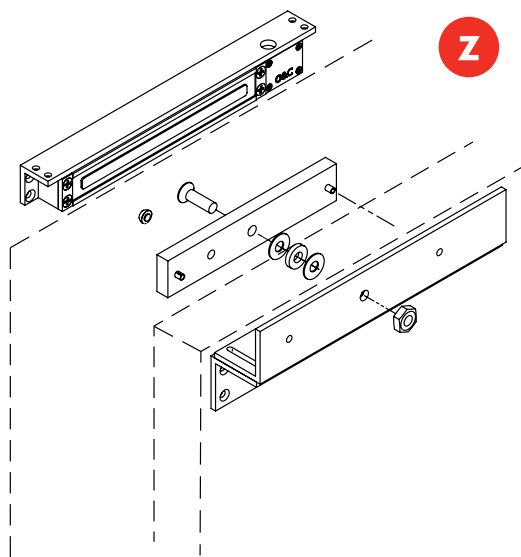
# MOST COMMON INSTALLATIONS



## For outward opening doors

The counterplate is installed directly on the door and the magnetic lock beneath the frame.

An "L" bracket may be needed when the frame is too narrow.



## For inward opening doors

The counterplate is installed on a "Z" bracket mounted on the interior door leaf directly to the door.

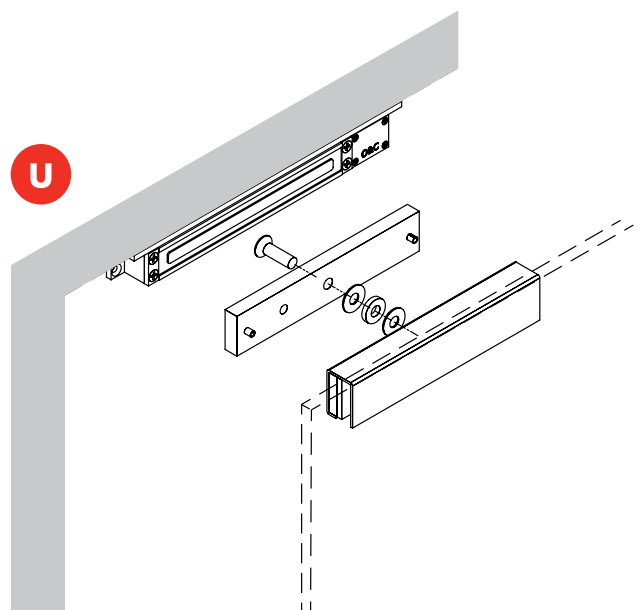
The electromagnetic lock has to be installed on the frame, on the opposite side of the hinges.

## For glass doors

The counterplate is installed directly on the door leaf. The electromagnetic lock has to be installed under the frame.

An "L" bracket may be needed when the frame is too narrow.

Please remember that the distance between the glass door and the frame needs to be at least 3 mm.



# DOOR HOLDER



## Series DH

Designed to be used on self-closing swinging doors to automatically isolate an area when activated by fire alarm, smoke detection or sprinkler systems.

Typical installations are: **hospitals, schools, nursing homes, public buildings** (closes all exit doors at once by push button control) and offices (instant privacy by pushing a button on your desk).

Magnetic door holders can also be operated by manual release, wherever the instant closing of doors is needed for safety or convenience.

Wall or floor supports available.

## Technical features

- 600 N holding force
- Jumper for voltage switch (on DHB)
- Ejector pin to overcome residual magnetism
- Manual release button
- Low power consumption

## Certifications

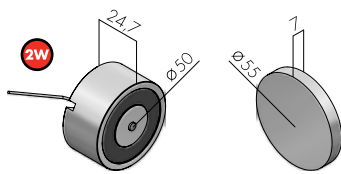
- Complies with UNE-EN 1155:2003

3	5	3	0	1	3
		4			

## References and features

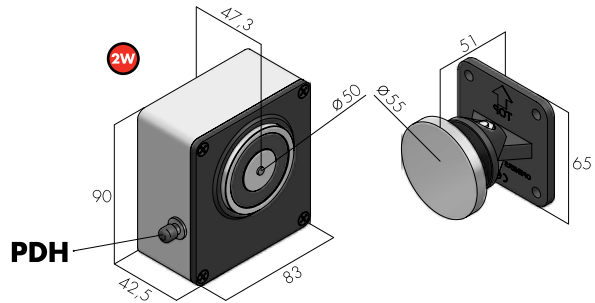
Voltage 24 Vdc	Manual Dual voltage 12/24 Vdc	HOLDING FORCE	Timer 3 sec.	Manual release button	Block	References
•		600 N			50 mm	<b>DHI - Industrial door holder</b>
•		600 N			50 mm	<b>DHS - Basic door holder</b>
	•	600 N		•	50 mm	<b>DHB - Dual voltage door holder</b>
•		600 N	•	•	50 mm	<b>DHT - Door holder with timer</b>
•		300 N/600 N		•	50 mm	<b>DHD - Door holder with power-regulation</b>
						<b>DFS 160 - Door holder support</b>
						<b>DFS 300 - Door holder support</b>
						<b>PDH - Manual Release Button</b>
						<b>ADH - Counterplate for DHB / DHT / DHD</b>
						<b>AHI - Counterplate for DHI</b>
						<b>AHS - Counterplate for DHS</b>

## Accessories & Spares



**DHI**  
24 V DC (85mA)

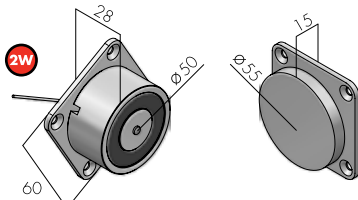
**AHI**  
(included)



**PDH**

**DHB**  
12 V DC (170mA)  
24 V DC (85mA)

**ADH**  
(included)

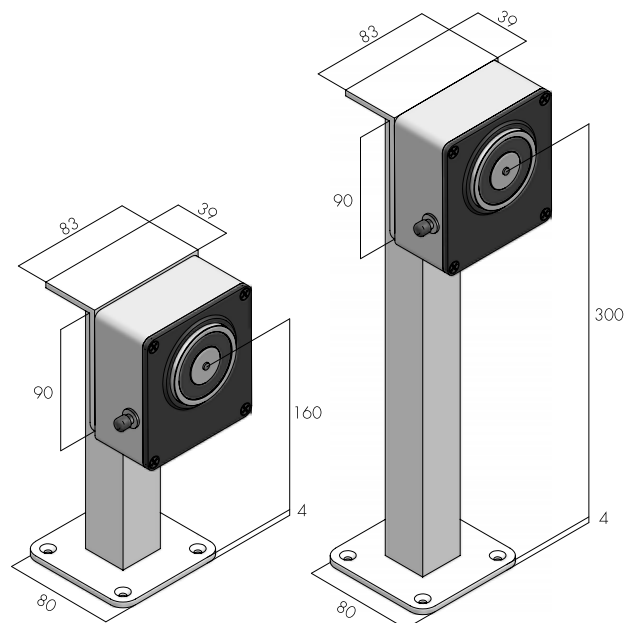
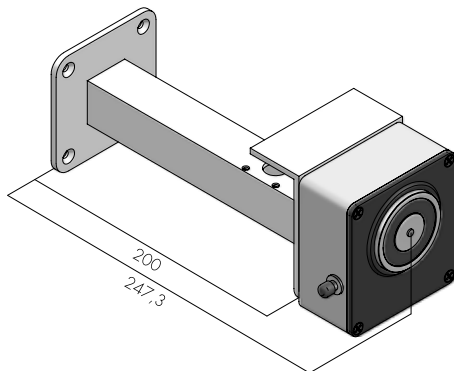


**DHS**  
24 V DC (85mA)

**AHS**  
(included)

**DHT**  
24 V DC (85mA)

**DHD**  
24 V DC (85mA)



**DFS 160**

**DFS 300**

# SHEARLOCK



## Series SH

Shearlocks are the ideal solution for **glass, swing and sliding doors**. They combine magnetic and mechanical force generating a massive holding force. Shearlocks can be timed and connected to fire detectors, alarms, access control systems, emergency exit buttons, etc. If a locking defect happens after 5 attempts, the shearlock emits a warning sound until the system is reset.

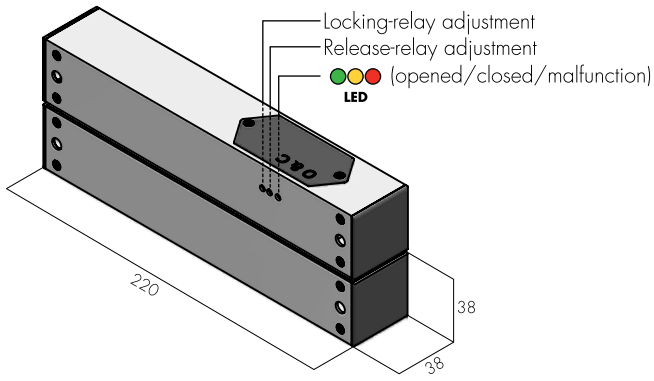
### Example of use:

A thief tries to escape through an emergency door where a panic bar and a shearlock are installed. When the thief pushes the panic bar, the door will still be locked by the shearlock for the programmed time, and a warning signal will be sent to the store's control center. If the system is equipped with an acoustic alarm, it will be ringing for the time the shearlock is programmed to, forcing the thief to drop the goods.

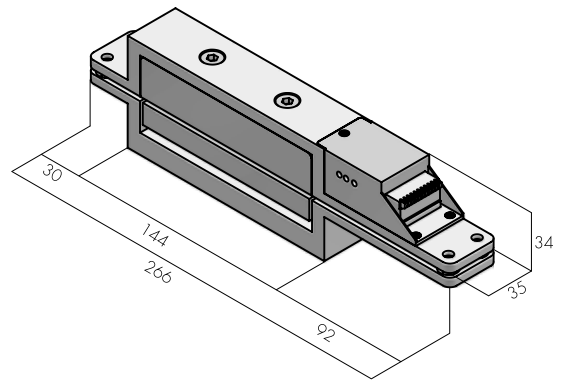
### Technical features

- 15.000 N holding force
- Electronic protection
- Timer: adjustable from 0 to 25 seconds for both locking (T1) and unlocking (T2)
- Maximum distance between parts: 3 mm  
Minimum distance between glasses: 6,5 mm
- 3 colours LED indicator (opened/closed/malfunction)
- Power from 10 to 36V DC (automatic switch)
- Operating temperature: from -5 to +60 °C plus 8/10 °C on DC current
- Consumption at 12V DC: 2A (start up) then 0,5A (operating)
- Auxiliary relay: max. 1A at 24V DC
- Guaranteed 3 years

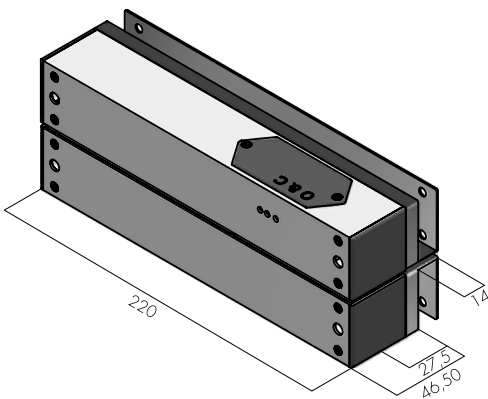
## References and features



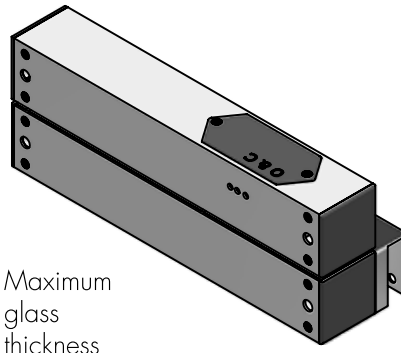
**SHEARLOCK SH 100**  
(rim installation)



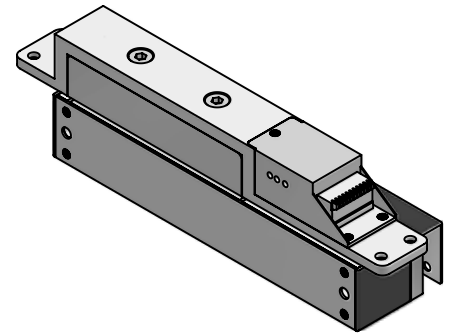
**SHEARLOCK SH 200**  
(mortise installation)



**SHEARLOCK SH 300**  
(glass/glass installation)



**SHEARLOCK SH 400**  
(rim/glass installation)



**SHEARLOCK SH 500**  
(mortise/glass installation)

## Installation example

