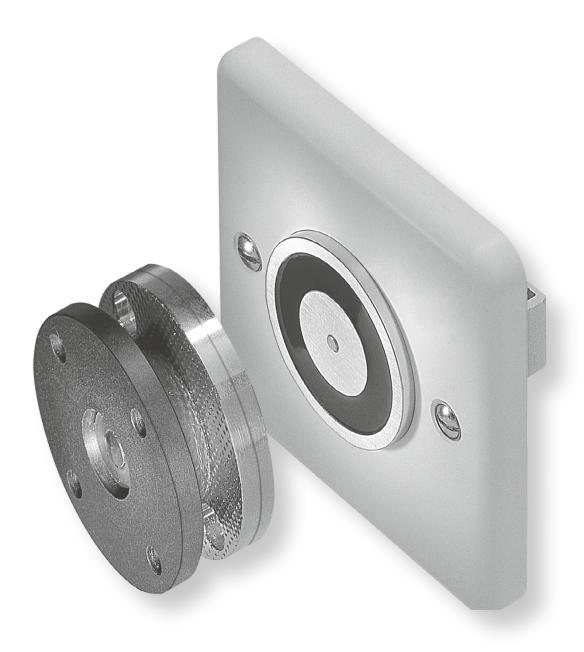


EM 500 Electric magnets



The modular system to hold open fire and smoke doors

In response to customer demands, dormakaba completes its technically and aesthetically pioneering product range for fire and smoke doors with its EM models. The new developments stand out due to their ease of installation and functional elegance. The guaranteed quality ensures highest reliability and a long service life.

The production plant is ISO 9001 certified.

Benefits -	point	by	point
For trade			

- Economical system solution thanks to low stock keeping with maximum flexibility
- Another module in the dormakaba product range, i.e. all from one provider

For installers

- Quick and easy installation
- Thought-through accessories for the most varied applications

For planners

- Uniform appearance for all versions
- Modular system for flexible applications

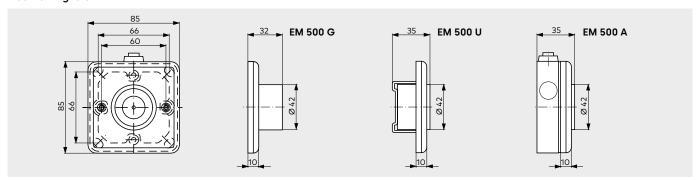
For the end user

- Unobtrusive appearance.
- Concealed cable entry
- Optimal holding force with low power consumption

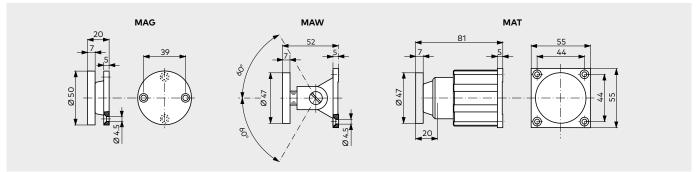
Daten und Merkmale	•	500 G	500 U	500 A
Installation	Surface-mounted Flush-mounted Floor ¹⁾	• - •	- • -	• - •
Holding force	400 N	•	•	•
Anti-remanence pin		•	•	•
Test pushbutton		-	-	•
Polarity reversal pro	tection	•	•	•
Operating voltage 2	4 V AC/DC	•	•	•
Max. power consum	ption in W		1.5	
On-load factor in %			100	
Degree of protectio	n		IP 40 ²⁾	
Ambient temperatur	e in °C		0 – 50	
Weight in kg		0.41	0.42	0.46
Dimensions in mm	Width Length Depth	85 85 32	85 85 35	85 85 35
Hold-open system to with EN 1155	ested in accordance		•	
C € -Identification for products	construction		•	

Yes − No

Electric magnets



Anchor



¹⁾ In conjunction with floor bracket (accessory)

 $^{^{2)}}$ EM 500 A in conjunction with floor bracket of protection class IP 43

Electromagnets for use in hold-open systems

According to legal regulations, fire and smoke doors that are kept open for a limited period of time must be outfitted with hold-open systems to enable the door leaves or gates to close automatically in the event of a fire.

Hold-open systems consist of a hold-open device, fire detector, power supply and trigger element and must be approved by the Deutsches Institut für Bautechnik (DIBt), Berlin (Germany).

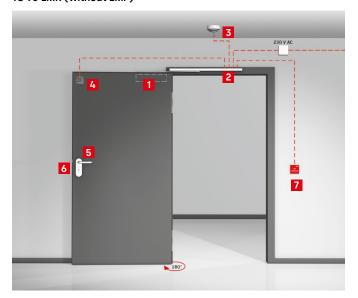
Electric magnets are hold-open systems that keep fire protection terminals and smoke doors open.

In case of fire, the trigger element disconnects the hold-open system as soon as the fire detector recognizes the fire. Automatic closing is achieved through the use of quality-monitored door closers that comply with EN 1154.

It must also be possible to activate the hold-open function by hand. According to the regulations for hold-open systems, a manual release pushbutton is required for this purpose when electric magnets are used. The button used for this purpose must be red, carry the lettering "Close door", be directly next to the door and must not be covered by the door when opened.

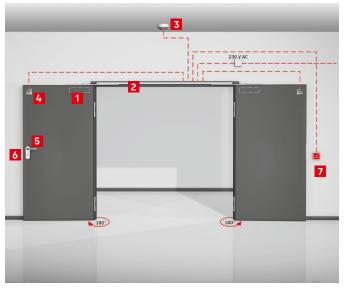
Application examples

TS 93 EMR (without EMF)



- 1 1TS 93 door closer
- 2 1 G-EMR slide channel without EMF
- 3 2 RM-N smoke detectors
- 4 1 Magnetic clamp e.g. EM 500
- 5 1 OGRO FP lever handle
- 6 1 FP lock
- 7 HT manual release pushbutton

TS 93 ESR EMR (without EMF)

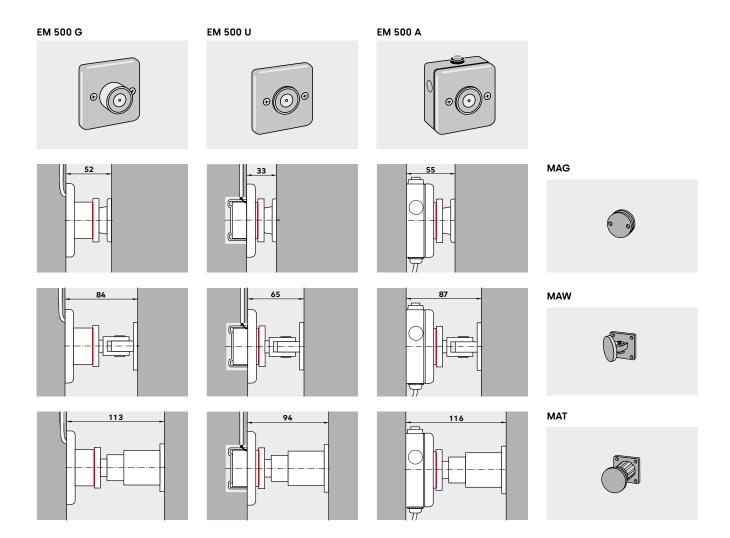


- 1 2 TS 93 door closers
- 2 1 GSR-EMR slide channel without EMF
- 3 2 RM-N smoke detectors
- 4 Magnetic clamps e.g. 2 x EM 500
- 5 1 OGRO FP lever handle
- 6 1 FP lock
- **7** HT manual release pushbutton

Approval certification

EM 500 series electromagnets for 24 V AC/DC are approved by the Deutsches Institut für Bautechnik (DIBt), Berlin (Germany), for use with the RMZ smoke detection system and other well-known smoke detection systems (e.g. with RMZ: approval no. Z-6.500-2372); approval of the hold-open system is also required.

The modular system at a glance



Specification text

EM 500 G

Electromagnet with reverse polarity protection for wall and floor mounting*.

Holding force 400 N

24 V AC/DC

Approved by the Deutsches Institut für Bautechnik (DIBt), Berlin (Germany), for use in hold-open systems.

Acceptance inspection required.

Required accessories: Anchor

Make

dormakaba EM 500 G

M 500 U

Electromagnet with reverse polarity protection for flush mounting.

Holding force 400 N

24 V AC/DC

Approved by the Deutsches Institut für Bautechnik (DIBt), Berlin (Germany), for use in hold-open systems.

Acceptance inspection required.

Required accessories: Anchor

Make

dormakaba EM 500 U

EM 500 A

Electromagnet with reverse polarity protection and test pushbutton for wall and floor mounting*.

Holding force 400 N

24 V AC/DC

Approved by the Deutsches Institut für Bautechnik (DIBt), Berlin (Germany), for use in hold-open systems.

Acceptance inspection required.

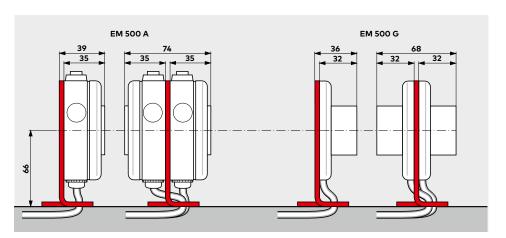
Required accessories: Anchor

Make

dormakaba EM 500 A

^{*} In conjunction with floor bracket, see page 5

Accessories

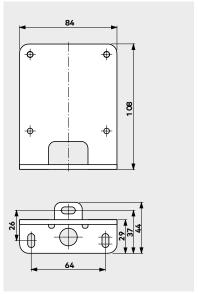


For the use of electromagnets EM 500 G and EM 500 A for floor mounting. $\,$

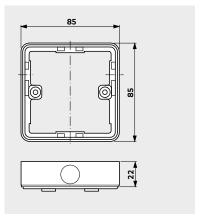
An electromagnet for floor mounting EM 500 B consists of an electromagnet EM 500 G or EM 500 A and the floor bracket.

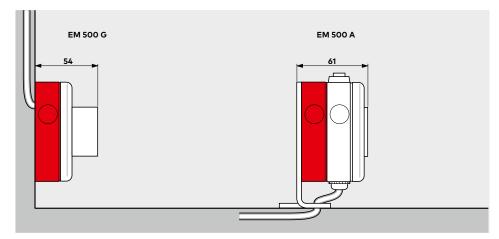
For tender texts see page 4.

Floor bracket

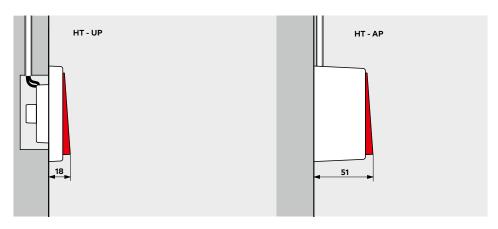








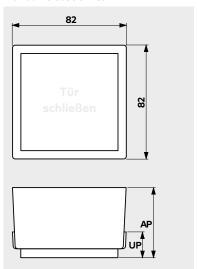
The frame can be combined with the electromagnets of the EM 500 $\,\mathrm{G/U/A}$ series.



To manually trigger the hold-open.

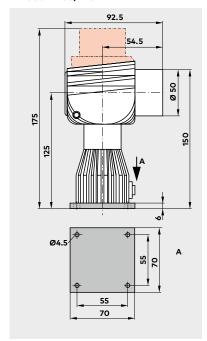
When electromagnets are used in hold-open systems on fire and smoke protection doors, a manual release switch is required according to the guidelines of the Deutsches Institut für Bautechnik (DIBt), Berlin (Germany).

Manual release switch

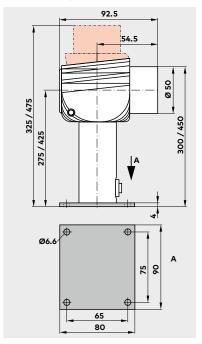


EM 500 H special version for floor, ceiling and wall mounting with test pushbutton

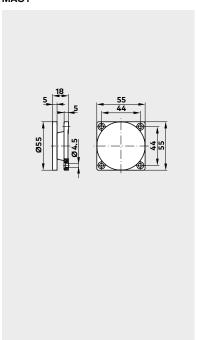
EM 500 H 150/175 mm



EM 500 H 300/325 mm EM 500 H 450/475 mm



MAG1



Specification text

24 V DC electromagnet with reverse polarity protection for floor, ceiling and wall mounting with test pushbutton. Holding force 490 N.

Approved by the Deutsches Institut für Bautechnik (DIBt), Berlin (Germany), for use in hold-open systems. Acceptance inspection required.

Version

☐ 150/175 mm □ 300/325 mm ☐ 450/475 mm

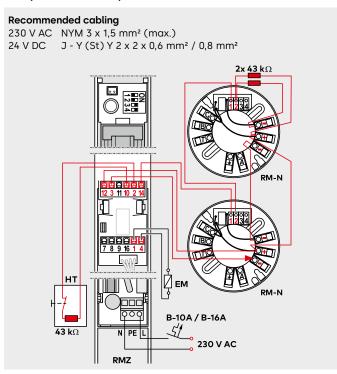
Required accessories

☐ Anchor MAG

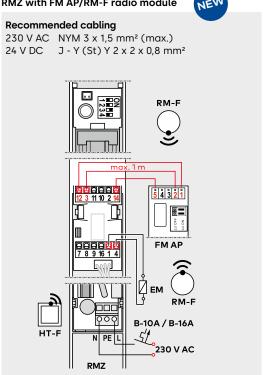
Make

dormakaba EM 500 H

Example of connection plan RMZ with RM-N



RMZ with FM AP/RM-F radio module



Product contents and accessories

■ Separate elec		MAG		MAW		MAT		MAG I	Floor bracket	Adapter frame
□ Separate andΔ Accessories	hor									
		□ 69020	0110	a 69020	0111	a 69020	112	6 9021113	69011540	690xx541
EM 500 G	24 V AC/DC ■ 690xx511	-		•	0	•	_		Δ	Δ
EM 500 U	24 V AC/DC ■ 690xx521	•	0	•	0	•	_			Δ
EM 500 A	24 V AC/DC ■ 690xx531	•		•		•	0		Δ	Δ
EM 500 H 24 V DC	150/175 mm ■ 69015005							• •		
EM 500 H 24 V DC	300/325 mm ■ 69015006							• 0		
	450/475 mm ■ 69015007							■ □		

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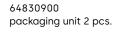
White (RAL 9016)

Stainless-steel finish

Smoke detector system

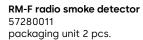
RMZ 648000xx

RM-N



FM AP radio module

Silver (RAL 9006) 57290001 White (RAL 9016) 57290011 57290009 Special colour



HT-F radio push button 57300011

FM AP Console 9900057005003

Manual release switch

19144601175

19144601175 +

5158533332

UP switch

AP switch



Note

An electromagnet for floor mounting consists of an EM 500 G or EM 500 Å electromagnet and the floor bracket.



Our Sustainability Commitment

We are committed to foster a sustainable development along our entire value chain in line with our economic, environmental and social responsibilities toward current and future generations. Sustainability at product level is an important, future-oriented approach in the field of construction. In order to give quantified disclosures of a product's environmental impact through its entire life cycle, dormakaba provides Environmental Product Declarations (EPD), based on holistic life cycle assessments.

www.dormakaba.com/sustainability



Our offering

Access Automation Solutions

Entrance Automation Entrance Security



Access Control Solutions

Electronic Access & Data Escape and Rescue Systems Lodging Systems



Access Hardware Solutions

Door Closers Architectural Hardware Mechanical Key Systems



Services

Technical Support Installation and commissioning Maintenance and Repair



WN 05136451532, EN, 04/2024 Subject to technical modifications.



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