



Hold-open magnets

A MODULAR SYSTEM FOR FIRE AND SMOKE DOORS SETTING NEW STANDARDS FOR HOLD-OPEN MAGNETS

DORMA's new range of EM hold-open magnets provides the perfect complement to a technically and aesthetically advanced range of fire and smoke door products. These new market-orientated developments are characterised by their ease of fixing and

functional elegance. And thanks to comprehensive quality assurance, they also offer maximum reliability and service life.

Certified to ISO 9001

Benefits

For the trade

- Cost-effective modular system offering the advantages of maximum flexibility with minimal stocking levels.
- A further component in the DORMA range for singlesource supply.

For the installer

- Quick and easy to fix.
- Sophisticated accessories suitable for a wide range of applications.

For the architect/specifier

- Uniform appearance common to all models.
- Modular system for application flexibility.

For the user

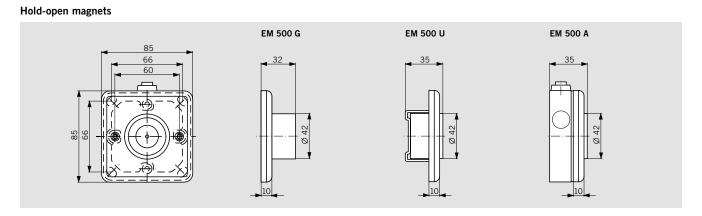
- Unobtrusive. Concealed cable run.
- Optimum holding force with minimum power consumption.

Data and features		500 G	500 U	500 A	
Fixing	Surface-mounted Flush-mounted Floor-mounted ¹⁾	• - •	- • -	• - •	
Holding force	400 N	•	•	•	
Anti-remanence pin	•	•	•		
Test pushbutton	-	_	•		
Polarity reversal protec	•	•	•		
Operating voltage 24 V	•	•	•		
Power consumption ma	1.5				
On-load factor in %	100 (rated for continuous service)				
Class of protection	IP 40 ²⁾				
Ambient temperature i	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 devices tested to EN1155					
CE mark for building products					

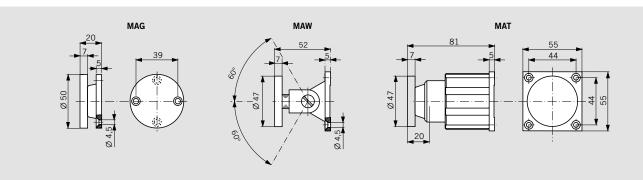
• yes – no

¹⁾ Floor angle bracket required (accessory)

²⁾ EM 500 A in conjunction with floor angle bracket: Class of protection IP 43



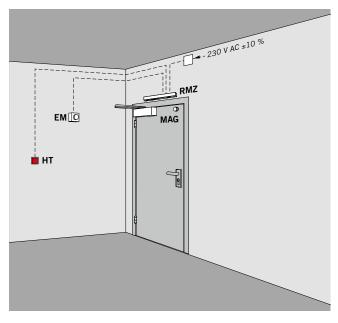
Armature plates

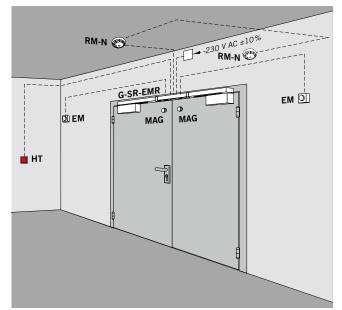


ELECTRO-MAGNETS FOR HOLD-OPEN SYSTEMS

The statutory regulations which apply in many countries allow fire and smoke doors to be held open for a limited period of time by electro-magnetic hold-open devices which, in the event of a fire, are de-energised to release the door so as to enable automatic closing. Such systems consist of a hold-open device, fire/smoke detection and alarm system, power supply and release device, and generally have to be approved by an accredited institute or building authority (in Germany: the German Institute for Building Technology, Berlin). Electro-magnets are devices which hold open fire and smoke doors.

In the event of a fire, the hold-open magnet is de-energised by the release device responding to a signal from the fire detector. The automatic closing action is provided by door closers which, in Germany, must correspond to DIN EN 1154 and be third-party verified. It must also be possible to manually release the hold-open device. According to the guidelines for hold-open systems applicable to Germany, a manual release pushbutton is necessary when employing electro-magnets in such applications. The pushbutton employed must be red, carry the wording "Close door", be located in the immediate vicinity of the door, and must not be hidden when the door is in its hold-open position.



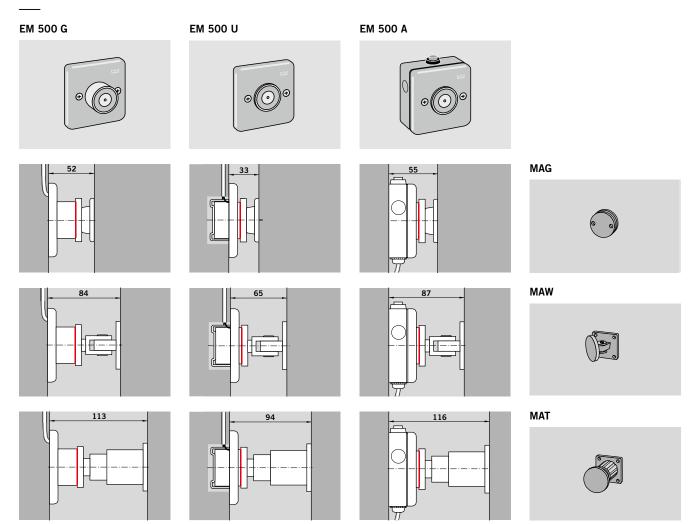


EM	Electro-magnet			
нт	Manual release pushbutton			
MAG	Armature plate			
RM-N	Smoke detector (ceiling-mounted)			
RMZ	Smoke detector (lintel-mounted)			
G-SR-EMR	Door co-ordinator with integral smoke detector			

F Approval certification

Electro-magnets of the series EM 500 for 24v AC/DC are tested and third-party verified by the Verband der Sachversicherer (VdS) e.V., Cologne (Association of Property Insurers), and have been approved by the German Institute for Building Technology (DIBt), Berlin, for use in combination with the DORMA RMZ smoke detector and other reputable smoke detector systems, (e.g. with DORMA RMZ: approval certificate No. Z-6.5-1890). In Germany, inspection and approval of the holdopen system is additionally required.

MODULAR SYSTEM OVERVIEW



SPECIFICATION TEXT

EM 500 G

Hold-open magnet with pole reversal protection for wall or floor mounting* Holding force 400 N 24v AC/DC Generally approved by DIBt-Berlin for use in hold-open systems. (System acceptance inspection may be necessary.) Requisite accessories: Armature plate

Make DORMA EM 500 G

M 500 U

Hold-open magnet with pole reversal protection for flush fixing Holding force 400 N 24v AC/DC Generally approved by DIBt-Berlin for use in hold-open systems. (System acceptance inspection may be necessary.) Requisite accessories: Armature plate

Make DORMA EM 500 U

EM 500 A

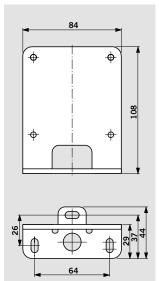
Hold-open magnet with pole reversal protection and integral test pushbutton, for wall or floor mounting* Holding force 400 N 24v AC/DC Generally approved by DIBt-Berlin for use in hold-open systems. (System acceptance inspection may be necessary.) Requisite accessories: Armature plate

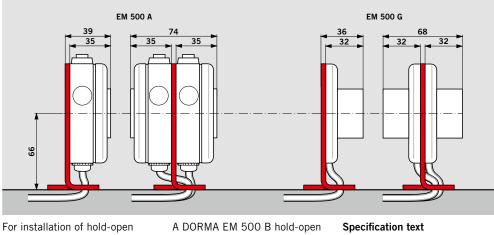
Make DORMA EM 500 A

* in conjunction with floor angle bracket, see Page 5

ACCESSORIES

Floor angle bracket



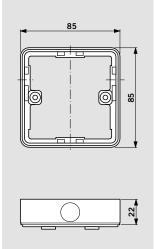


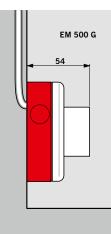
magnets EM 500 G and EM 500 A as floor-mounted units.

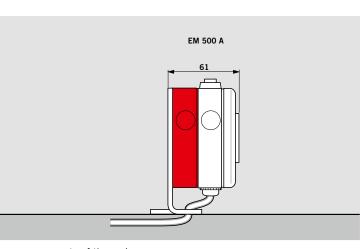
magnet for floor mounting comprises an EM 500 G or EM 500 A hold-open magnet and an associated floor angle bracket.

see Page 4

Adapter frame







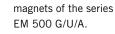
The frame can be combined with the individual hold-open

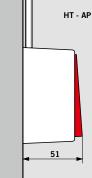
HT - UP

18

device by hand.

For releasing the hold-open

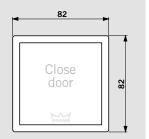


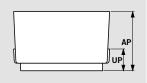


When employing electro-magnets in hold-open systems for fire and smoke doors, a manual switch may have to be provided in accordance with local or

national regulations (e.g. the guidelines of the German Institute for Building Technology (DIBt), Berlin, for German applications).

Separate manual release switch

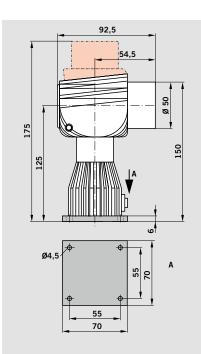


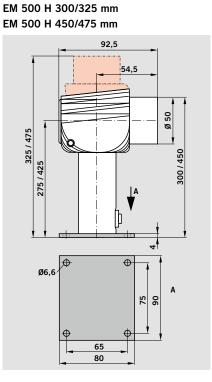




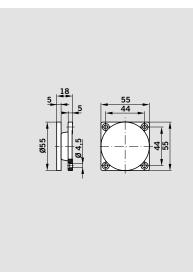
SPECIAL MODELS EM 500 H FOR FLOOR, CEILING AND WALL MOUNTING, WITH INTEGRAL TEST PUSHBUTTON

EM 500 H 150/175 mm









SPECIFICATION TEXT

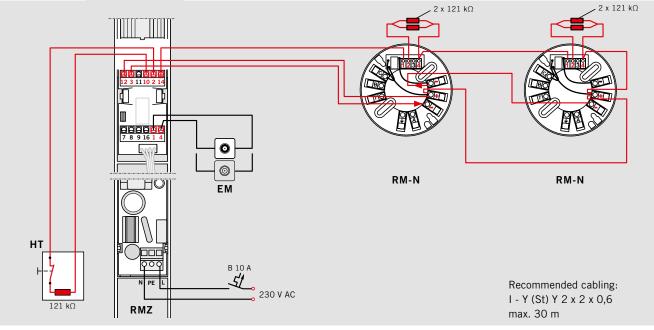
24 V DC hold-open magnet with pole reversal protection and integral test pushbutton for floor, ceiling and wall mounting. Holding force 490 N. Generally approved by the DIBt-Berlin for use in hold-open systems (in Germany). (System acceptance inspection may be necessary.)



Requisite accessories

□ Armature plate

Make DORMA EM 500 H



EM + RMZ + 2x RM-N

STANDARD EQUIPMENT AND ACCESSORIES

		MAG		MAW	-	MAT		MAG I		Floor angle bracket	Adapter frame
		C	•	° Co	Õ	i (
		□ 6902	0110	□ 6902	0111	□ 6902	0112	□ 6902	1113	69011540	690xx541
EM 500 G	24 V AC/DC ■ 690xx511	•		•		•				Δ	Δ
EM 500 U	24 V AC/DC ■ 690xx521	-									Δ
EM 500 A	24 V AC/DC ■ 690xx531	•		•		•				Δ	Δ
EM 500 H 24 V DC	150/175 mm ■ 69015005							-			
EM 500 H 24 V DC	300/325 mm ■ 69015006										
	450/475 mm ■ 69015007										

Separate manual release switch

HT-UP	35901531
HT-AP	35901532

Note

A hold-open magnet for floor mounting comprises an electro-magnet of the type EM 500 G or EM 500 A and the floor angle bracket.

xx Colour

- 11 White (RAL 9016)
- 12 Stainless steel finish
- Hold open magnet separate
- □ Armature plate separate
- \triangle Accessory





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