

ELECTRO HOLDING MAGNETS

MICRO MAGNETS

1500 N

Utilisation

- Utilisation for locking cabinets and drawers (compact housing)
- Holding power approx. 1500 N

Version for surface mounting

Stainless steel housing surface

Dimensions (L x W x D): 170 x 32 x 24 mm

Order number

MAG-01500STS--A

Version for mortise mounting

Stainless steel housing surface

Dimensions (L x W x D): 200 x 32 x 24 mm

Order number

MAG-01500STM--A



Model MAG-01500STS--A



Model MAG-01500STM--A

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Technical data

Holding power	approx. 1500 N
Rated operating voltage	12 V DC
Current consumption	350 mA
Connection lead	approx. 90 cm

Suitable accessories*

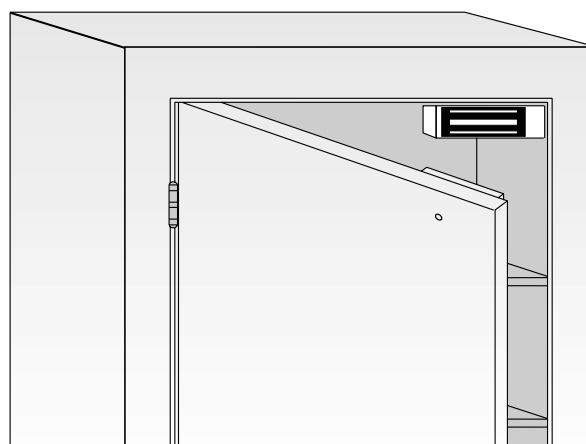
Order number

L-shaped mounting bracket

MAGAC-L150-----

Z-shaped mounting bracket

MAGAC-Z150-----



Cabinet mounting example

* More information on accessories from page 16 onwards.

ELECTRO HOLDING MAGNETS

3000 N

MINI MAGNETS

Utilisation

- For locking doors
- Holding power approx. 3000 N

Version for surface mounting

Aluminium housing surface

Dimensions (L x W x D): 250 x 42 x 25 mm

Order number

MAG-03000ALS--D

Aluminium housing surface, hall sensor**

MAG-03000ALS-HD

Version for mortise mounting

Aluminium housing surface

Dimensions (L x W x D): 230 x 38 x 28 mm

Order number

MAG-03000ALM--D

Aluminium housing surface, hall sensor**

MAG-03000ALM-HD

Version for surface mounting

Stainless steel housing surface

Dimensions (L x W x D): 210 x 41 x 26 mm

Order number

MAG-03000STS--A

Version for mortise mounting

Stainless steel housing surface

Dimensions (L x W x D): 227 x 38 x 26 mm

MAG-03000STM--D

Stainless steel housing surface, hall sensor**

MAG-03000STM-HD

Technical data

Holding power	approx. 3000 N
Rated operating voltage	12 or 24 V DC
Rated op. voltage MAG-03000STS--A	12 V DC
Current consumption 12 V DC	500 mA
24 V DC	250 mA
Connection lead	approx. 90 cm

Suitable accessories:*

Order number

L-shaped mounting bracket

MAGAC-L300-----

Z-shaped mounting bracket

MAGAC-Z300-----

L-shaped mounting bracket with hood

MAGAC-K300-----

Universal Z-shaped mounting bracket

MAGAC-U300/500-

Suitable accessories:*

Order number

L-shaped mounting bracket

MAGAC-L300ST---

Z-shaped mounting bracket

MAGAC-Z300ST---

L-shaped mounting bracket with hood

MAGAC-K300-----

Universal Z-shaped mounting bracket

MAGAC-U300/500-

*** More information on accessories from page 16 onwards.**



Model MAG-03000ALM--D

Order number

Glass door adhesive housing, 10 mm

MAGAC-G300-10--

Glass door adhesive housing, 12 mm

MAGAC-G300-12--

Mounting plate

MAGAC-M300-----



Model MAG-03000STS--A

Order number

Glass door adhesive housing, 10 mm

MAGAC-G300-10--

Glass door adhesive housing, 12 mm

MAGAC-G300-12--

Mounting plate

MAGAC-M300-----

**A contact is integrated in the magnet for lock monitoring (Hall sensor)

ELECTRO HOLDING MAGNETS

TWIN MINI MAGNETS

2 X 3000 N

Utilisation

- For locking double-winged doors
- Holding power approx. 2 x 3000 N

Version for surface mounting

Dimensions (L x W x H): 500 x 42 x 25 mm

Aluminium housing surface

Order number

MAGD03000ALS--D

Aluminium housing surface, hall sensor**

MAGD03000ALS-HD



Modell MAGD03000ALS--D

Technical data

Holding power	approx. 2 x 3000 N
Rated operating voltage	12 or 24 V DC
Current consumption 12 V DC	500 mA
24 V DC	250 mA

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Suitable accessories:*

L-shaped mounting bracket

Order number

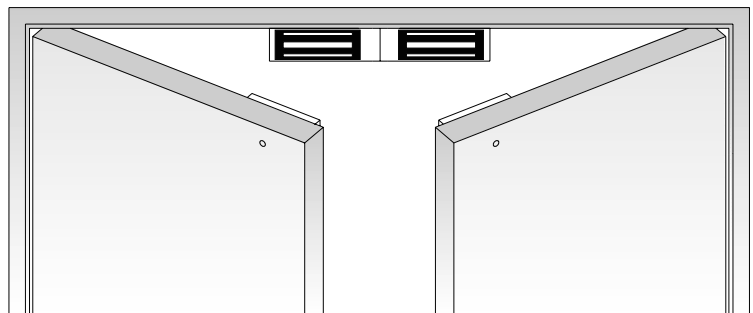
MAGAC-L300-----

Z-shaped mounting bracket

MAGAC-Z300-----

Mounting plate for fixing counter-holding plates

MAGAC-M300-----



Mounting example

Note for ordering:

Two mounting brackets/mounting plates should be ordered for each magnet.

*** More information on accessories from page 16 onwards.**

**A contact is integrated in the magnet for lock monitoring (Hall sensor)

ELECTRO HOLDING MAGNETS

5000 N

MAXI MAGNETS

Utilisation

- For locking double-winged doors
- Holding power approx. 5000 N

Version for surface mounting

Dimensions (L x W x H): 266 x 68 x 40 mm

Aluminium housing surface

Order number

MAG-05000ALS--D

Aluminium housing surface, hall sensor**

MAG-05000ALS-HD

Aluminium housing sensor, hall sensor**, with time delay setting (1 to 15 seconds after power switch-off)

MAG-05000ALS-TD

Technical data

Holding power	approx. 5000 N
Rated operating voltage	12 or 24 V DC
Current consumption 12 V DC	500 mA
24 V DC	250 mA

Version for surface mounting

Dimensions (L x W x H): 220 x 68 x 41 mm

Stainless steel housing surface

Order number

MAG-05000STS--A

Stainless steel housing surface, hall sensor**

MAG-05000STS-HA

Technical data

Holding power	approx. 5000 N
Rated operating voltage	12 V DC
Current consumption	12 V DC 500 mA
Connection lead	approx. 90 cm

Suitable accessories:*

L-shaped mounting bracket

Order number

MAGAC-L500-----

Z-shaped mounting bracket

MAGAC-Z500-----

Mounting plate for fixing counter-holding plates

MAGAC-M500-----

Multi-purpose mounting plate

MAGAC-U300/500-



Model MAG-05000ALS--D

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Suitable accessories:*

L-shaped mounting bracket

Order number

MAGAC-L500ST---

Z-shaped mounting bracket

MAGAC-Z500ST---

Mounting plate for fixing counter-holding plates

MAGAC-M500-----

*** More information on accessories from page 16 onwards.**



Model MAG-05000STS--A

**A contact is integrated in the magnet for lock monitoring (Hall sensor)

ELECTRO HOLDING MAGNETS

TWIN MAXI MAGNETS

2 x 5000 N

Verwendung für 2-flügelige Türen

- For locking doors
- Holding power approx. 2 x 5000 N

Version for surface mounting

Dimensions (L x W x H): 530 x 68 x 40 mm

Aluminium housing surface

Order number

MAGD05000ALS--D

Aluminium housing surface, hall sensor**

MAGD05000ALS-HD



Model MAGD05000ALS--D

Technical data

Holding power	approx. 2 x 5000 N
Rated operating voltage	12 or 24 V DC
Current consumption 12 V DC	500 mA
24 V DC	250 mA

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Suitable accessories*

L-shaped mounting bracket

Order number

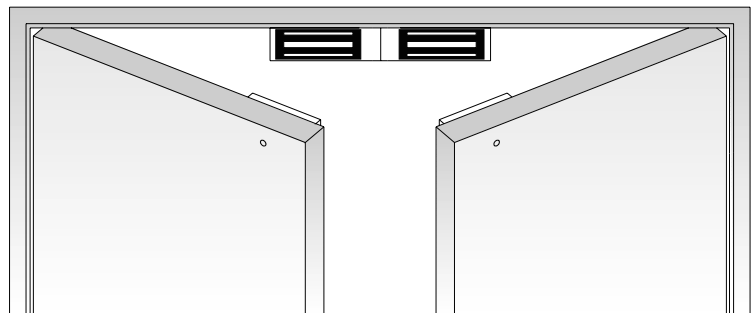
MAGAC-L500-----

Z-shaped mounting bracket

MAGAC-Z500-----

Mounting plate for fixing counter-holding plates

MAGAC-M500-----



Mounting example

Note for ordering:

Two mounting brackets/mounting plates should be ordered for each magnet.

*** More information on accessories from page 16 onwards.**

**A contact is integrated in the magnet for lock monitoring (Hall sensor)

ELECTRO HOLDING MAGNETS

6500 N

WATER PROTECTED

DOOR & GATE MAGNETS

Utilisation

- For locking doors and gates outdoors
- Holding power approx. 6500 N

Version for surface mounting

Dimensions (L x W x H): 220 x 68 x 41 mm

Stainless steel housing surface

Order number

MAGG06500STS--D

Stainless steel housing surface, hall sensor**

MAGG06500STS-HA

Stainless steel housing surface, hall sensor**

MAGG06500STS-HB

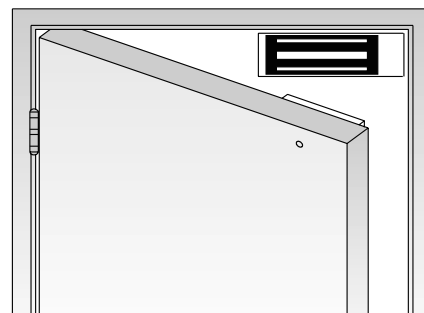


Model MAGG06500STS-HA

Technical data

Holding power	approx. 6500 N
Rated operating voltage	
MAGG06500STS--D	12 or 24 V DC
MAGG06500STS-HA	12 V DC
MAGG06500STS-HB	24 V DC
Current consumption	
12 V DC	500 mA
24 V DC	250 mA
Schutzart	IP 65
Connection lead	approx. 90 cm

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Mounting example

Suitable accessories:*

L-shaped mounting bracket

Order number

MAGAC-L1200----

*** More information on accessories from page 16 onwards.**

**A contact is integrated in the magnet for lock monitoring (Hall sensor)

ELECTRO HOLDING MAGNETS

MINI SHEAR MAGNETS

5700 N

Shear magnet function

The magnet counter plates are attracted when the magnets are energised, causing the locking pins on the counter-holding plate in the electro holding magnets to close. This increases the mechanical locking forces.

Utilisation

- For locking doors
- For installation in door frame and leaf
- The positive locking function increases retaining forces

Version for surface mounting

Dimensions of magnet + counter unit (L x W x H): 175 x 35 x 44 mm

Aluminium housing surface, black surface-mounted housing

Order number

MAGS05700ALS1-D

Aluminium housing surface, hall sensor**

MAGS05700ALS1HD



Model MAGS05700ALS1-D

Version for mortise mounting

Dimensions of magnet (L x W x H): 180 x 30 x 27 mm

Dimensions of counter unit (L x W x H): 180 x 30 x 42 mm

Aluminium housing surface

Order number

MAGS05700ALM1-D

Aluminium housing surface, hall sensor**

MAGS05700ALM1HD

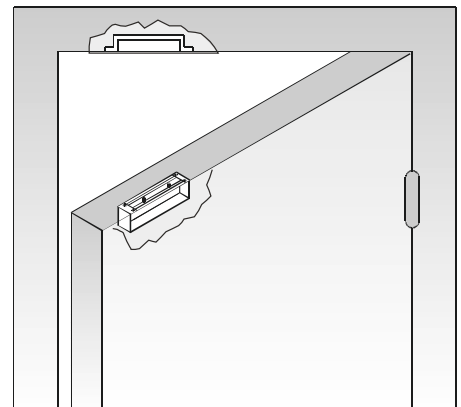


Model MAGS05700ALM1-D

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Technical data

Holding power/Shearing force	approx. 5700 N
Rated operating voltage	12 or 24 V DC
Current consumption	12 V DC 350 mA 24 V DC 190 mA
Magnet/Counter plate distance	min. 2 mm / max. 3 mm



Mounting example

**A contact is integrated in the magnet for lock monitoring (Hall sensor)

ELECTRO HOLDING MAGNETS

15000 N

MAXI SHEAR MAGNETS

Utilisation

- For locking doors
- For installation in door frame and leaf
- The positive locking function increases retaining forces

Version for mortise mounting

Aluminium housing surface, hall sensor,
with time delay setting (2 to 6 seconds after deactivation)

30 mm wide face plate

Dimensions of magnet + counter unit (L x W x H): 267 x 30 x 40 mm

Order number

MAGSI5000ALM1TD

Aluminium housing surface, hall sensor,
with time delay setting (2 to 6 seconds after deactivation)

35 mm wide face plate

Dimensions of magnet + counter unit (L x W x H): 267 x 35 x 40 mm

Order number

MAGSI5000ALM2TD



Model MAGSI5000ALM1TD

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Technical data	
Holding power/Shearing force	approx. 15000 N
Rated operating voltage	12 to 28 V DC stabilised autom. voltage detection and adaptation
Current consumption 12 V DC 28 V DC	1800 mA (pull-in) 500 mA (holding)
Dimensions ...ALM1TD Magnet / Counter unit (L x W x D)	267 x 30 x 40 mm
Dimensions ...ALM2TD Magnet / Counter unit (L x W x D)	267 x 35 x 40 mm
Magnet/Counter plate distance	min. 2 mm / max. 3 mm

Suitable accessories*

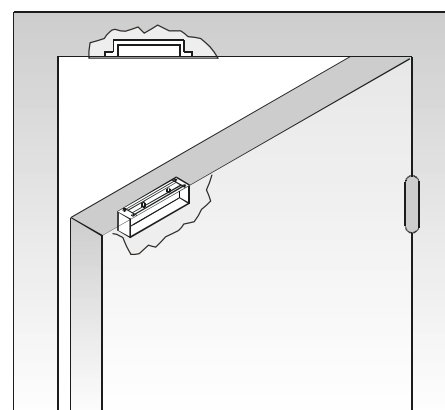
Installation housing for ALMD1 and ALMD2

Order number

MAGACSK150035--

Power supply unit (regulated), 230 V AC / 24 V DC / 1 A

1003-24-1----00



Mounting example

*** More information on
accessories from page 16
onwards.**

**A contact is integrated in the
magnet for lock monitoring
(Hall sensor)

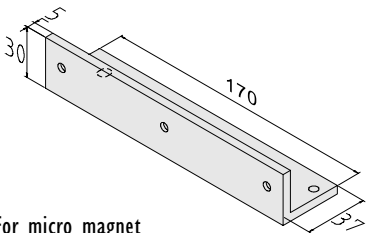
ELECTRO HOLDING MAGNETS

ACCESSORIES

L-SHAPED MOUNTING BRACKET

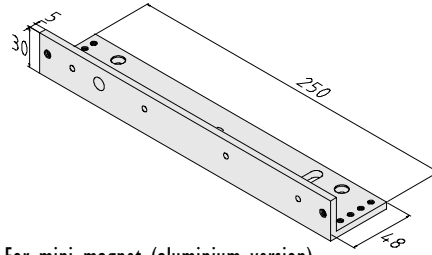
L-shaped mounting brackets

For mounting on flush-surface door elements. For outwards-opening doors.



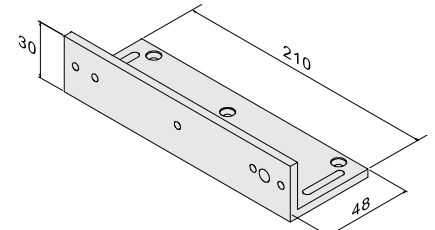
For micro magnet

MAGAC-L150-----



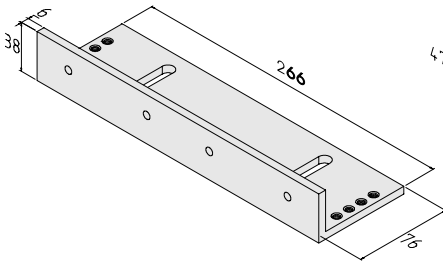
For mini magnet (aluminium version)

MAGAC-L300-----



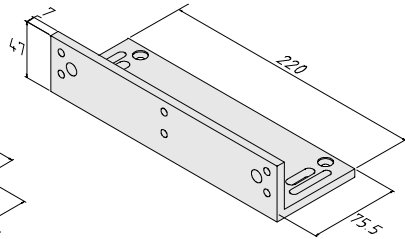
For mini magnet (stainless steel version)

MAGAC-L300ST---



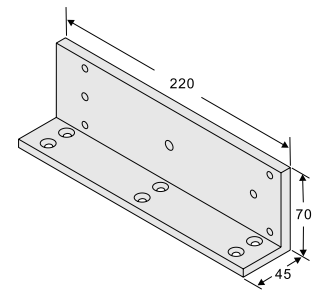
For maxi magnets (aluminium version)

MAGAC-L500-----



For maxi magnet (stainless steel version)

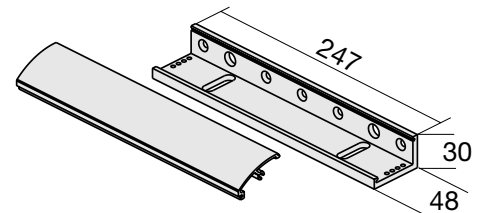
MAGAC-L500-ST--



For gate magnets for sliding doors

MAGAC-L1200----

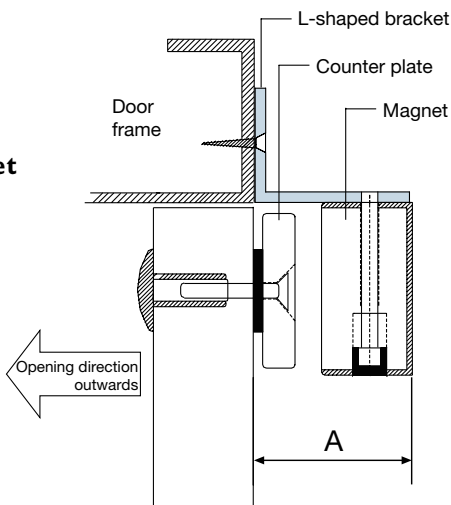
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Mounting bracket for mini magnet
L-shaped with hood

MAGAC-K300-----

Installation drawing for
**L-shaped
mounting bracket**



Variable dimension "A"
Mounting bracket

Dimension

MAGAC-L150	38 mm
MAGAC-L300	48/42/36/30 mm
MAGAC-L300ST	48 - 30
MAGAC-K300	48/42/36/30 mm
MAGAC-L500	77/65/53/41 mm
MAGAC-L500-ST	77 - 41 mm

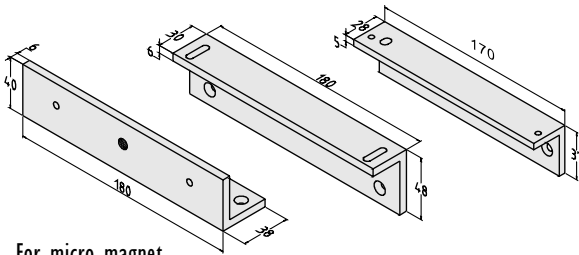
ELECTRO HOLDING MAGNETS

Z-SHAPED MOUNTING BRACKET

ACCESSORIES

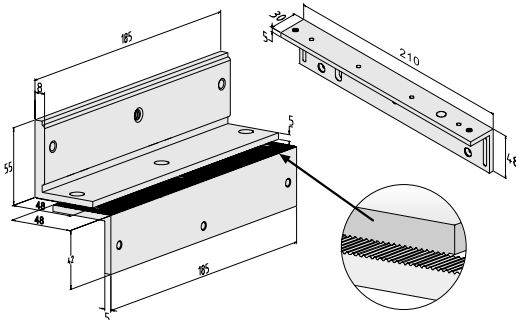
Z-shaped mounting brackets

For mounting on flush-surface door elements. For inwards-opening doors.



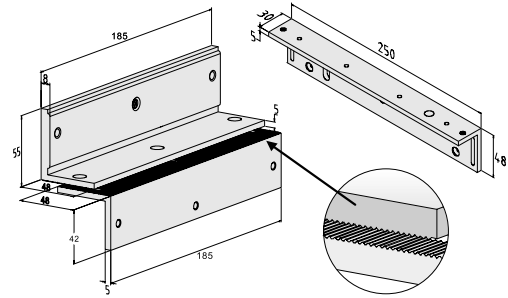
For micro magnet

MAGAC-Z150-----



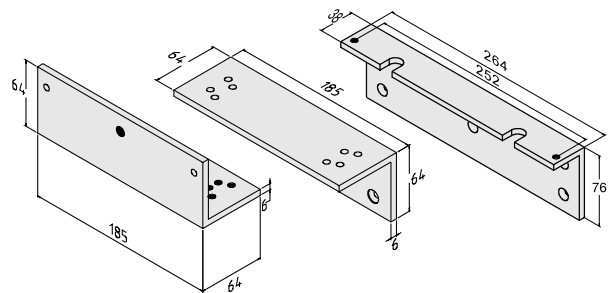
For mini magnet (stainless steel version)

MAGAC-Z300ST---



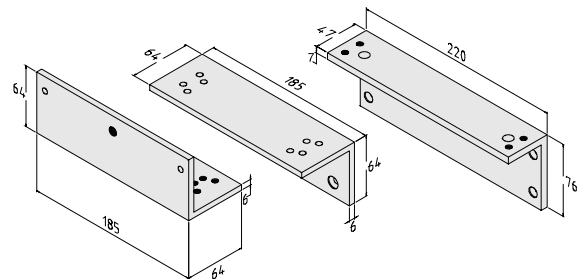
For mini magnet (aluminium version)

MAGAC-Z300-----



For maxi magnets (aluminium version)

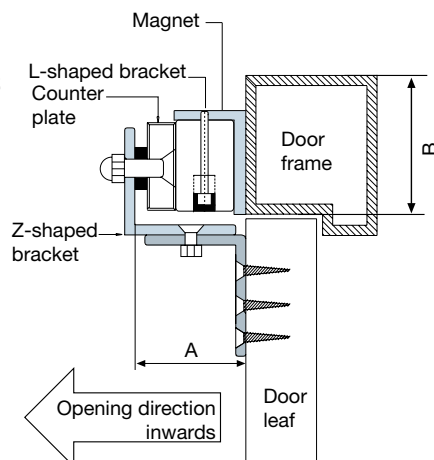
MAGAC-Z500-----



For maxi magnet (stainless steel version)

MAGAC-Z500ST---

Installation drawing for Z-shaped mounting bracket



Variable dimension "A"

Mounting bracket	Dimension A	Dimension B
MAGAC-Z150	32 - 43 mm	37 mm
MAGAC-Z300	40 - 57 mm	48 mm
MAGAC-Z300ST	40 - 57 mm	48 mm
MAGAC-Z500 / MAGAC-Z500-ST	70 mm	76 mm

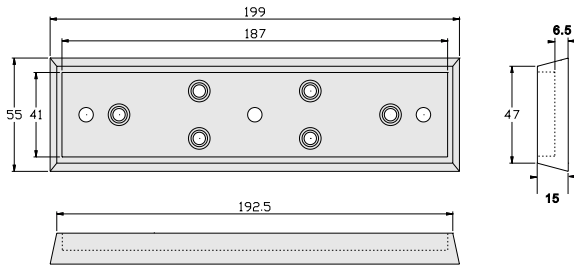
ELECTRO HOLDING MAGNETS

ACCESSORIES

MOUNTING PLATES

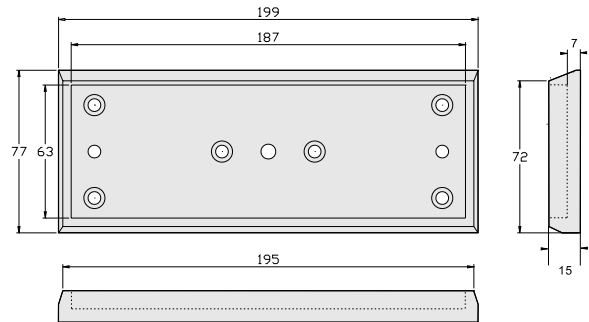
Mounting plates

Used everywhere where one-piece screw fitting of counter-holding plates is not possible (e.g. on wooden doors).



Mounting plate for fixing counter-holding plates (3000N series)

MAGAC-M300-----

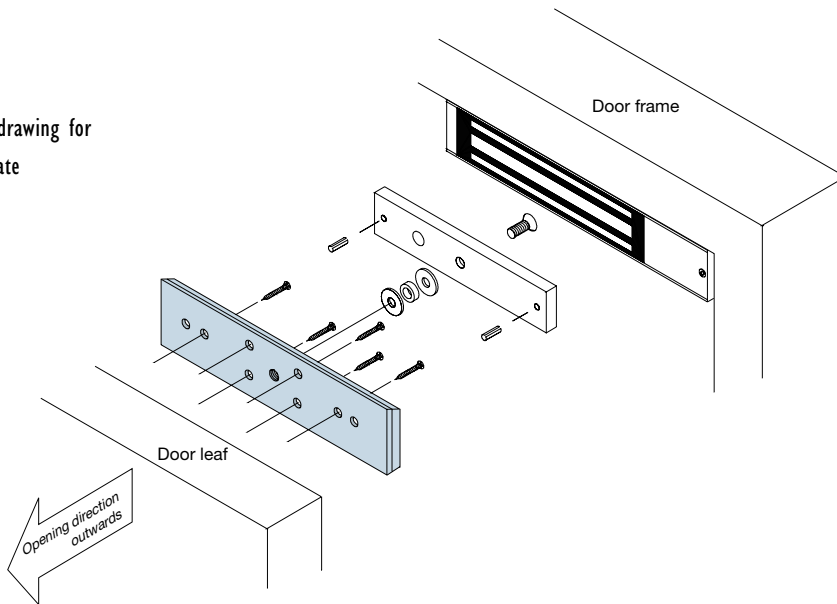


Mounting plate for fixing counter-holding plates (5000N series)

MAGAC-M500-----

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Installation drawing for
Mounting plate



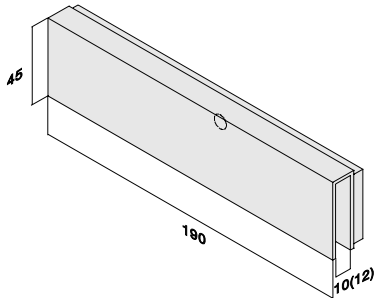
ELECTRO HOLDING MAGNETS

MOUNTING PLATES, HOUSING

ACCESSORIES

Adhesive housing

for mounting on glass door elements



Glass door adhesive housing

for mounting counter-holding plate on glass door element
for glass thickness 10 mm

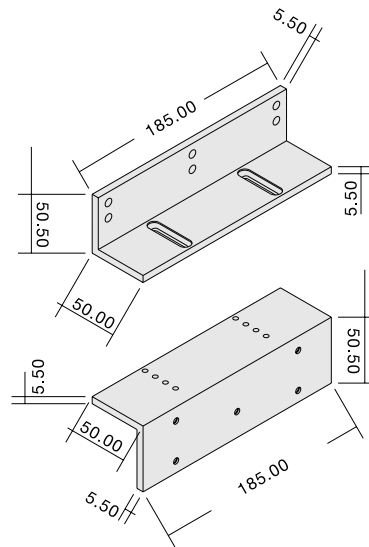
MAGAC-G300-10--

for glass thickness 12 mm

MAGAC-G300-12--

Klebeset für Klebmontage

843-8-----00



Multi-purpose mounting plate

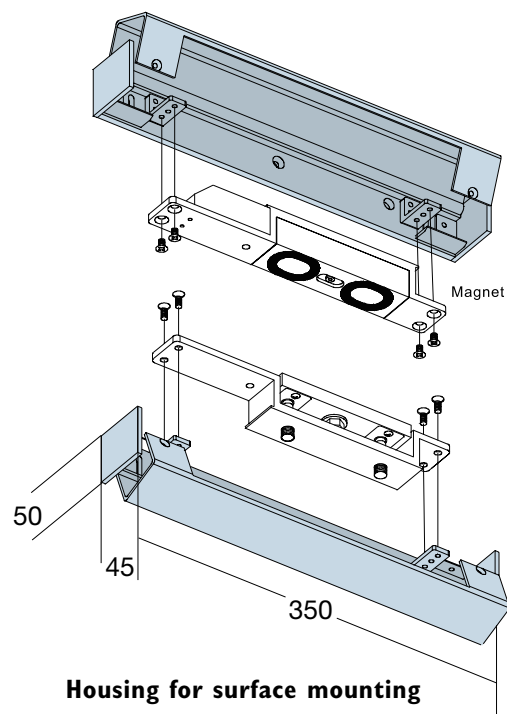
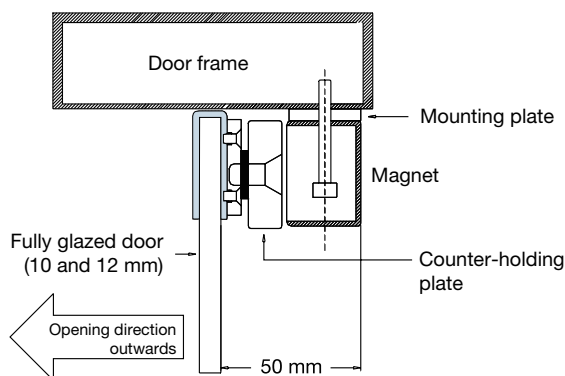
for fixing counter-holding plate

Variable dimension A: 51 - 72 mm

(See illus. on page 17 for dimensions A)

MAGAC-U300/500-

Installation drawing for
mounting with adhesive housing



Housing for surface mounting

for surface mounting of maxi shear magnets

MAGACSL150035--

ELECTRO HOLDING MAGNETS

MAGNETS

ON RESCUE ROUTES



Employees, hotel guests or visitors in public buildings should feel assured that there is an evacuation possibility during an emergency, and escape routes offer this possibility. Doors on escape routes should open easily and without auxiliary assistance during an evacuation. However, this generally contradicts the need for security felt by building operators, as misuse of emergency exits provides a means of access. For example, emergency exits in supermarkets offer people the option of bypassing the checkout.

The Building Regulation List defines a product to meet these requirements under “electrical locking systems for doors on escape routes”. This enables a safe evacuation in every case of emergency and simultaneously prevents abuse of emergency exits.

All effeff escape door systems meet the defining technical requirement for this product specified in Building Regulation List A, part I consec. no. 6.19 as the “Directive for electrical locking systems on escape route doors (EltVTR)” and bear the corresponding symbol (Ü symbol).

The systems and their components

Only three components are required for securing doors on escape routes with effeff escape door systems in compliance with regulations, as the control electronics are already integrated in the terminal.

Central systems (e.g. building control technology, hazard warning systems, etc.) can be connected to the control electronics. The panel for centralised monitoring and control is realised with BUS technology.

Closed-circuit current principle

Systems for securing escape routes function on the closed-circuit current principle. The door is enabled immediately in the event of activation, emergency unlocking or a power failure.

effeff surface holding magnets are approved by EltVTR and utilised if doors in fire barriers with escape door systems need to be retrofitted, or if no measurable constructional alteration should occur to door leafs and frames after subsequent fitting of an escape door system. In addition, the practically silent functionality of surface holding magnets is an advantage where frequently used doors are involved. Surface holding magnets involve the activation of an integrated hall sensor which sends the required feedback signal to the control unit, thus also ensuring that the system is protected against sabotage and manipulation.

Our “Escape route technology” brochure contains further information and a detailed overview of products.



ELECTRO HOLDING MAGNETS

2500 N

COMPACT SURFACE HOLDING MAGNETS

Surface holding magnets approved for use on escape routes

Surface holding magnets are suitable for electro-magnetic locking of doors. They are easily installed, and alterations or incisions on door frames are unnecessary. According to a letter dated the 24th of March 1991 from the Institute for Civil Engineering (Institut für Bautechnik), Berlin, electro holding magnets can also be fitted to fire protection doors. The following models 827 and 828 have been issued with Building Monitoring Authority approval in accordance with EltVTR and can therefore be utilised for doors on escape and rescue routes.

Compact surface holding magnets 827 Comprehensive security for doors on escape routes

Compact surface holding magnets. No monitoring contacts, with a counter-holding plate in a slim unit design for integration in door frames, sturdy shape-retaining aluminium housing for flush mounting.

Naturally-coloured anodised housing surface finish

Dimensions of magnet (L x W x H): 301 x 28 x 35 mm

Dimensions of counter unit (L x W x H): 301 x 20 x 35 mm

Order number

827-----44F90

Suitable accessories

Magnet contacts (see escape route technology brochure)

Order number

10365-6-----00

Compact surface holding magnets 827 aP In mounting housing (e.g. for sliding doors)

Complete with counter-holding plate is surface-mounted housing, sturdy shape-retaining design in aP sheet-steel housing, grey-white colour finish

Dimensions (L x W x H): 301 x 52 x 43 mm

Order number

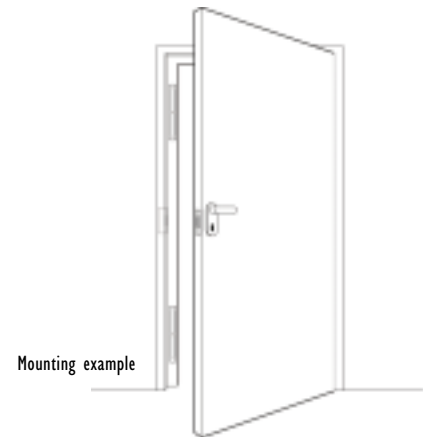
827AP-----93F90

Suitable accessories

Reed contacts (see escape route technology brochure)

Order number

10365-6-----00



Model 827-----44F90



Model 827AP-----93F90

Technical data

Rated operating voltage	24 V DC/12 V DC
Current consumption	250 mA/500 mA
Nominal output	6 W
Duty cycle	100 % ED
Holding power	2500 N
Residual holding power	0 N
Connection lead length	4 m

ELECTRO HOLDING MAGNETS

COMPACT SURFACE HOLDING MAGNETS

5000 N

Surface holding magnets approved for use on escape routes

Surface holding magnets are suitable for electro-magnetic locking of doors. They are easily installed, and alterations or incisions on door frames are unnecessary. According to a letter dated the 24th of March 1991 from the Institute for Civil Engineering (Institut für Bautechnik), Berlin, electro holding magnets can also be fitted to fire protection doors. The following models 827 and 828 have been issued with building monitoring authority approval in accordance with EltVTR and can therefore be utilised for doors on escape and rescue routes.

Surface holding magnet 828

The rated voltage can be set to 24 V DC or 12 V DC on the magnet. The counter-holding plate 828-2 is included in the scope of delivery. The electro surface holding magnet 828 contains an integrated contact for the locking sensor (hall sensor).



Model 828-----44F90

Naturally-coloured anodised housing surface finish

Dimensions of magnet (L x W x H): 287 x 37,5 x 68 mm

Dimensions of counter unit (L x W x H): 200 x 27 x 60 mm

Order number

828-----44F90

Dark bronze anodised housing surface finish

828-----47F90

Please note when ordering:

In addition to the integrated locking sensor, a secondary door contact is required.

Technical data

Rated operating voltage	24 V DC / 12 V DC
Current consumption	315 mA / 630 mA
Nominal output	7,5 W
Switch-on time	100 % ED
Holding power	5000 N
Residual holding power	0 N
Switching contact	Floating relay change-over contact Max. switching current 2 A resistive load

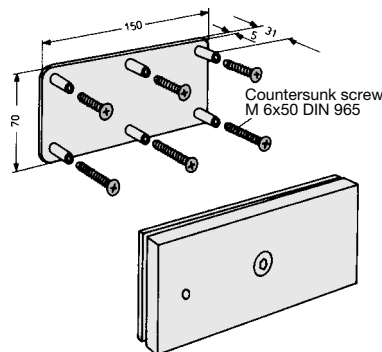
Suitable accessories

Mounting set 828-6

For mounting the surface holding magnet 828 on flush-surface door elements. The set consists of an adjustable mounting bracket, mounting bracket 828-4 and plastic cover.

Order number

828-6-----44



The mounting counter holders 828-5 are utilised for enabling one-piece screw mountings on wooden doors. Greater stability is thus achieved when the counter-holding plate is secured to wooden doors (not suitable for fire protection doors).

Mounting counter holder 828-5

For the counter-holder plate 828-2. Supplied complete with mounting screws (M 6x50 DIN 965 countersunk screws).

Dimensions 150x70 mm.

Threaded sleeve length 31 mm.

Order number

828-5-----44

Mounting bracket 828-7

For mounting the surface holding magnet 828 on flush-surface door elements. Complete with spacer plates and fixed counter piece.

Order number

828-7-----00

