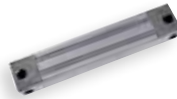




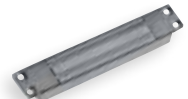
CDVI

EN ENGLISH

I180SR
I400SR
I500SR
I180ER
I300ER
I500E



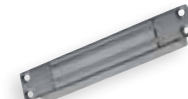
I180SR



I180ER



I400SR



I300ER



I500SR



I500E

Surface Mount & Mortice Stainless Steel Electromagnetic locks

The installer's choice
cdvigroup.com

I180SR - I400SR - I500SR - I180ER - I300ER - I500E

Surface mount or Mortice Stainless steel Electromagnetic Locks


Thank you for buying our products and for the confidence you placed in our company.

1] PRODUCT PRESENTATION

- **Stainless steel.**
- **Surface mounting or mortice*.**
- **Monitored*.**
- **Holding force:** 180, 300, 400 or 500kg*.
- **Security rope*.**
- **High corrosion resistance.**
- **Delivered with armature plate.**
- **No mechanical wear.**
- **Ease of installation.**
- **Recommended for outdoor use.**
- **Fail safe (Door unlocked when power off).**
- **Built-in varistor:** Electronic protection to eliminate back EMF.

- Electromagnetic lock dimensions (L x W x D):
 - I180SR = 175 x 32,5 x 22mm,
 - I400SR = 230 x 43,5 x 29,5mm,
 - I500SR = 230 x 61 x 41mm.
 - I180ER = 201 x 32 x 22mm,
 - I300ER = 228 x 38 x 27mm,
 - I500E = 288,5 x 64 x 37,5mm.
- Armature dimensions (l x w x d):
 - 180kg = 130 x 32 x 9mm,
 - 300kg = 185 x 38 x 11mm,
 - 400kg = 185 x 45 x 12mm,
 - 500kg = 185 x 60 x 12mm.
- Power supply: 12/24V dc.
- Power absorption:
 - 12 V DC = 500mA,
 - 24 V DC = 250mA.

Refs	Holding force	Monitored
I180SR	180kg	✓
I400SR	400kg	✓
I500SR	500kg	✓
I180ER	180kg	✓
I300ER	300kg	✓
I500E	500kg	-

 EC certification

 IP54

 WEEE

 RoHS



2] REMINDERS AND RECOMMENDATIONS

The function of an electromagnetic lock is to ensure the locking of an access point. This document is a guide of installation which will allow you to secure the installation according to the characteristics of the product, the site and the environmental requirements.

APPROVAL RELATIVE TO EMERGENCY EXITS

In the case of an installation of electromagnetic lock on emergency exits, it is imperative to make sure that these exit points will be automatically free in case of fire alarm, to open in the event of a fire alarm to allow evacuation of the premises. The electromagnetic lock installed on emergency exits must be in accordance with the fire approval department (Ex: In France = NF 61-937).

For more information, contact CDVI, the local fire officer or the safety officer responsible for the building.

* Depending on the version.

I180SR - I400SR - I500SR - I180ER - I300ER - I500E

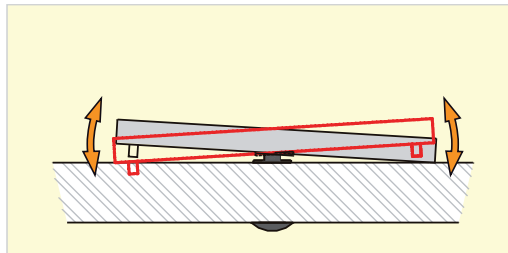
Surface mount or Mortice Stainless steel Electromagnetic Locks

POWER SUPPLY

An electromagnetic lock always operates in DC current, a very low safety voltage. The Diax® electromagnetic lock is recommended for use with power supplies manufactured by CDVI, however, other power supplies may be used on condition that they are of equivalent quality and characteristics rectified, filtered, regulated and protected by fuse in primary and secondary sectors.

MOUNTING RECOMMENDATIONS

- Define the level of security of the access.
- Determine the maximum strength of holding force to this level of security.
- Select the Diax® electromagnetic lock according to the environment, the inside, the outside, the climatic constraints, (For example: stainless steel dedicated to an outside use).
- Always install the electromagnetic lock on the secure side of the place to be secured.
- Indeed make sure that the frame and opening, receiving or supporting the electromagnetic lock, armature plate and their accessories, are solid and resistant to damage or wear over a period of time.
- Consider any bracketry required for the assembly according to the type of support receiving the electromagnetic lock and armature plate.
- Define the passage of cables to ensure the protection against the vandalism and the environmental requirements (in particular through flexible hoses of door, glands, gutters, cross cables, plastic tubes).



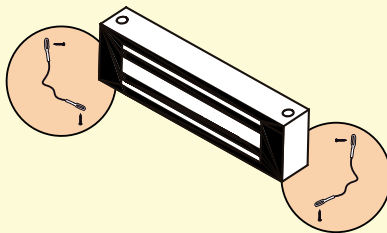
Armature plate

- It is vital to fix the electromagnetic lock and armature plate solidly on their supports.
- Make sure that the magnet and the armature meet evenly over their entire mating surfaces.
- The Armature plate must be able to pivot slightly about its center mounting screw to compensate for any door misalignment.

Security ropes

The electromagnetic lock undergoes repeated shocks and the vibration at the points of fixation on the frame (frequencies of openings / closures, attempt of opening wears closed and attempts of vandalism) which can loosen the fixing bolts/screws. To prevent the risk of the electromagnetic block from falling, install both security ropes supplied, to guarantee the safety of the users (see attached plan).

Security ropes (fixing on the magnetic locks and to the frame)










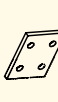

MAINTENANCE

The Electro magnet and armature plate have a specific treatment which strengthens the protection against wear and corrosion. These products do not require high maintenance. Nevertheless to ensure optimum performance, it is recommended to clean regularly the surfaces in contact of the electro magnet and armature plate with a cloth and non abrasive products. If traces of corrosion appear, it is recommended to clean and oil the contact surfaces. Check and tighten regularly all the fixings of the Electro magnet and ensure that while the armature is able to pivot on its mounting, the fixing bolt is not liable to loosen (we recommend thread-lock for all fixing bolts).


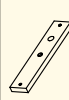







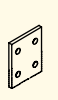

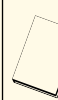
I180SR - I400SR - I500SR - I180ER - I300ER - I500E
 Surface mount or Mortice Stainless steel Electromagnetic Locks

3] PACKAGE CONTENTS


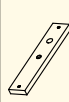









VERSION I180ER

								
Mortice magnetic lock	Armature plate	Stainless steel screw 5x8	Stainless steel screw M5x35	Stainless steel Roll pin 5x16	Stainless steel washer 6x13	Rubber washer 6x10	Joggle bracket	Installation Manual
1	1	8	1	2	2	1	2	1

VERSION I300ER















											
Mortice magnetic lock	Armature plate	Stainless steel Screw 5x8	Cap nut	Guide piece	Stainless steel screw with rubber washer 8x25	Stainless steel Roll pin 5x16	Stainless steel washer 10x22	Rubber washer 9x15	Joggle bracket	5mm key	Installation Manual
1	1	8	1	1	1	2	2	1	2	1	1

VERSION I500E




















										
Mortice magnetic lock	Armature plate	Stainless steel Screw 5x8	Cap nut	Guide piece	Stainless steel screw with rubber washer 8x25	Stainless steel Roll pin 5x16	Stainless steel washer 10x22	Rubber washer 9x15	5mm key	Installation Manual
1	1	8	1	1	1	2	2	1	1	1

I180SR - I400SR - I500SR - I180ER - I300ER - I500E
 Surface mount or Mortice Stainless steel Electromagnetic Locks

VERSION I180SR


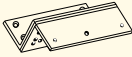
									
Surface mount magnetic lock	Armature plate	Stainless steel screw 3x10 (security ropes)	Cap nut	Steel screw nut 6x11	Seal up anchor	Stainless steel screw 5x35	Stainless steel screw M5x35	Stainless steel Roll pin 5x16	Stainless steel washer 6x13
1	1	2	1	1	2	2	1	2	2
									
Hole cover plate	Rubber washer 6x10	Security rope	Installation manual						
4	1	2	1						

I400SR - I500SR

											
Surface mount magnetic lock	Armature plate	Stainless steel screw 3x10 (security ropes)	Cap nut	Guide piece	Steel screw nut 6x11	Seal up anchor	black steel screw 6x35	Stainless steel screw 6x40	Stainless steel screw 6x50	Stainless steel screw with rubber washer 8x35	Stainless steel Roll pin 5x16
1	1	2	1	1	1	4	1	2	2	1	2
											
Stainless steel washer 10x22	Stainless steel Strut 10x15	Hole cover plate	Rubber washer 9x15	5mm key	Security rope	Installation Manual					
2	2	4	1	1	2	1					

I180SR - I400SR - I500SR - I180ER - I300ER - I500E
 Surface mount or Mortice Stainless steel Electromagnetic Locks

4] OPTIONAL ACCESSORIES (ONLY FOR ARMATURE PLATE)

SURFACE MOUNT		
		
References	Z1	Z3Z4Z5
Description	"Z" bracket for 180kg	"Z" bracket for 300, 400 and 500kg

5] ELECTRICAL CONNECTIONS

Terminal block	Correspondence	I500E	I180ER - I180SR I300ER - I400SR I500SR
+	12 or 24V dc	■	■
-	- 0 V	■	■
N.C	NC (Normally closed)	-	■
COM	COM	-	■
N.O	NO (Normally open)	-	■

The NO/NC signal only switches when the door is closed with the power to it on.

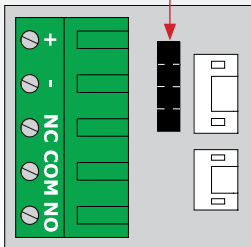
IMPORTANT NOTE



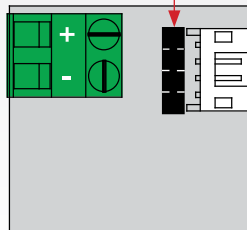
12V dc factory setup

Check the jumper position before connecting the lock to the input current. A wrong position could damage the lock. This type of damage is not covered by the warranty.

WITH BUILT-IN PCB BOARD

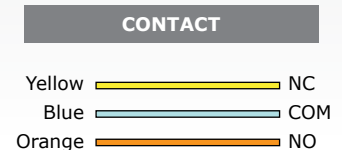
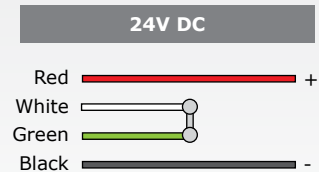
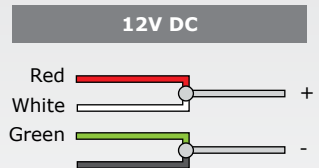


I180ER - I180SR
 I300ER - I400SR
 I500SR



I500E

DIRECT CONNECTION

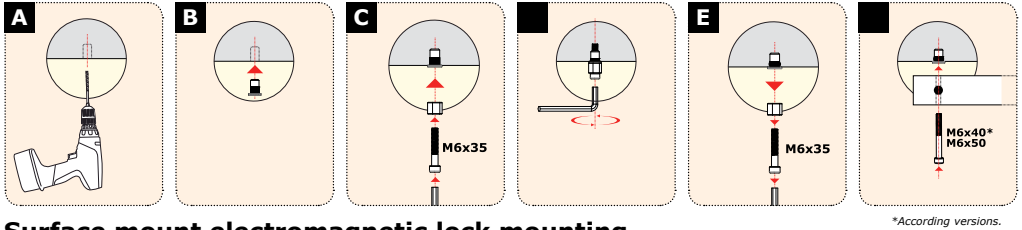


I180SR - I400SR - I500SR - I180ER - I300ER - I500E
 Surface mount or Mortice Stainless steel Electromagnetic Locks

6] INSTALLATION

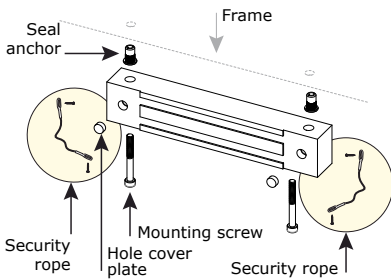
SURFACE MOUNT VERSIONS: I180SR - I300SR - I400SR - I500SR

Seal up anchor mounting

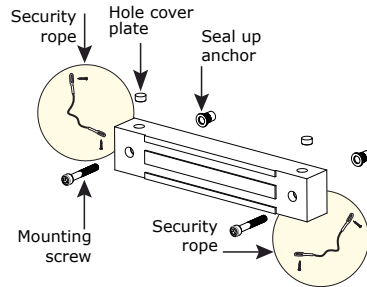


Surface mount electromagnetic lock mounting

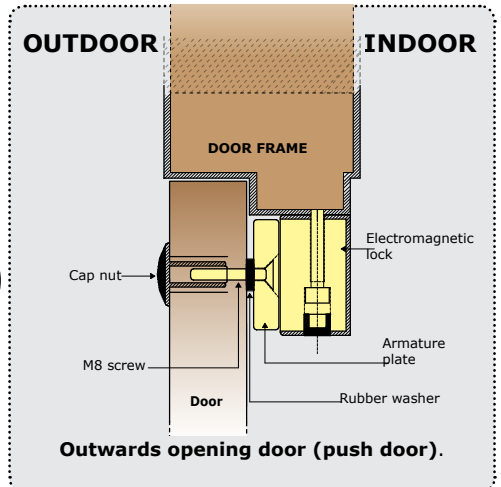
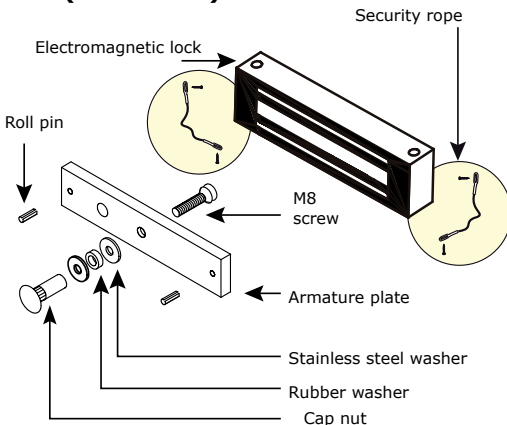
VERTICAL MOUNTING



FRONT MOUNTING

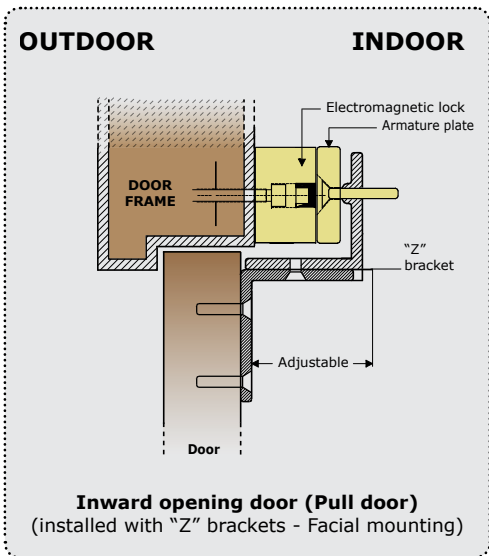
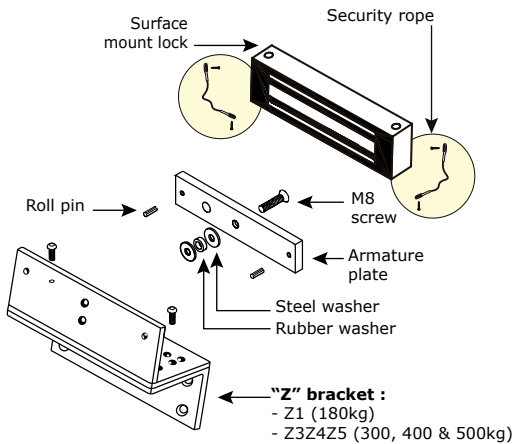


Installation on an outward opening door (Push door)

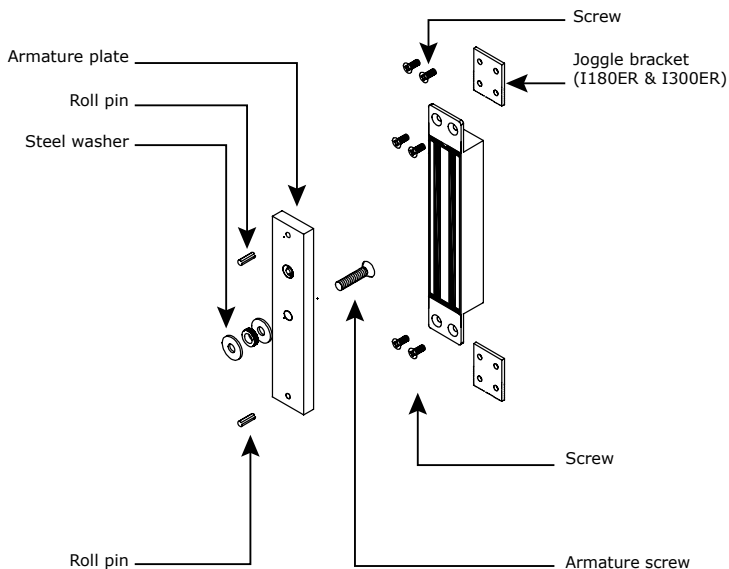


I180SR - I400SR - I500SR - I180ER - I300ER - I500E
 Surface mount or Mortice Stainless steel Electromagnetic Locks

Installation on an inward opening door (Pull door)



MORTICE VERSIONS: I180ER - I300ER - I500E



Reference : G0301EN0461V02

Extranet : EXE-CDVI_IM STAINLESS STEEL MAGLOCKS CMYK A5 EN 01



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All the information contained within this document (pictures, drawing, features, specifications and dimensions) could be perceptibly different and can be changed without prior notice.

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