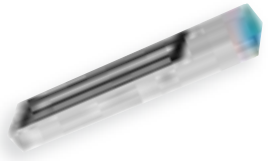
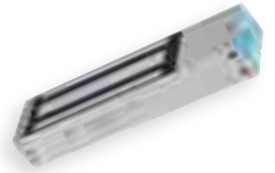
nolimal



ECS5000
ECS5000M

ECM5000
ECM5000M



ECS8000
ECS8000M

ECS5000
ECS5000M
ECM5000
ECM5000M
ECS8000
ECS8000M

Surface Mount & Mortice Electromagnets

Range: Locking Devices /

EN

ECM5000 - ECM5000M - ECS5000 - ECS5000M - ECS8000 - ECS8000M

Surface mount or Mortice Electromagnetic locks

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

1] PRODUCT PRESENTATION

- ***NFS 61-937.***
- ***Surface mounting or mortice*.***
- ***Relay*.***
- ***Monitored*.***
- ***Visual feedback*.***
- ***High corrosion resistance.***
- ***Delivered with armature plate.***
- ***No mechanical wear.***
- ***Ease of installation.***
- ***Recommended for indoor use.***
- ***Fail safe (Door unlocked when power off).***
- ***Holding force:*** 300 or 500kg*.
- ***Buit-in varistor:*** *Electronic protection to eliminate back EMF.*

- Electromagnetic lock dimensions (L x W x D):
  - ECM5000 & ECM5000M = 228 x 38 x 27mm,
  - ECS5000 & ECS5000M = 254 x 45 x 28mm,
  - ECS8000 & ECS8000M = 273 x 67 x 41mm.
- Armature dimensions (l x w x d):
  - 300kg range = 185 x 38 x 11mm,
  - 500kg range = 185 x 60 x 12mm.
- Option: Electromagnetic lock accessories.
- Power supply: 12/24V dc.
- Power absorption:
  - 12 V DC = 550mA,
  - 24 V DC = 275mA.

** Depending on the version.*

The ECS5000, ECS5000M, ECS8000 and ECS8000M versions with signalling are suitable for the new regulations covering assistance to persons with reduced mobility.

Refs	Holding force	Visual feedback	Relay	Moni-tored
ECM5000	300kg	-	-	-
ECM5000M	300kg	-	Yes	Yes
ECS5000	300kg	Blue	-	-
ECS5000M	300kg	Red - Green	Yes	Yes
ECS8000	500kg	Blue	-	-
ECS8000M	500kg	Red - Green	Yes	Yes

COLOUR CODES

ECS5000 - ECS8000
BLUE > ACTIVE VOLTAGE

ECS5000M - ECS8000M
RED > LOCKED
GREEN > OPEN

Recommended power supplies

ARD212 BS602

IP42

RoHS *RoHS*

EC certification

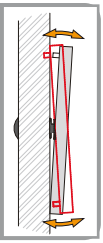
WEEE

2] REMINDERS AND RECOMMENDATIONS

Electromagnetic locks are designed to require very little maintenance. Nevertheless, the following procedures will ensure optimum performance:

- The electromagnetic lock and its armature have a special coating to protect them from corrosion. The contact faces of the lock must always be kept clean to ensure optimal locking.
- An electromagnetic lock works with direct current.

- 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.



ECM5000 - ECM5000M - ECS5000 - ECS5000M - ECS8000 - ECS8000M

Surface mount or Mortice Electromagnetic locks

3] PACKAGE CONTENTS

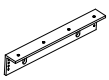
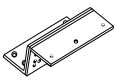
SURFACE MOUNT VERSIONS: ECS5000, ECS5000M, ECS8000 AND ECS8000M

							
Surface mount magnetic lock	**Armature plate**	**Fixing plate**	**Roll pin 5x16**	**Steel washer**	**Rubber washer**	**4x25 wood screw**	**Key 3mm**
1	1	1	2	2	4	7	1
							
Key 5mm	**M8x35 screw**	**M8x25 screw**	**3x8 self-tapping screw**	**Guide piece**	**Cap nut**	**Installation manual**	
1	1	1	1	1	1	1	

MORTICE VERSIONS: ECM5000 AND ECM5000M

						
Mortice magnetic lock	**Armature plate**	**Joggle bracket**	**Roll pin 5x16**	**Steel washer**	**Rubber washer**	**M5x8 screw**
1	1	2	2	2	2	10
						
Key 5mm	**M8x35 screw**	**Guide piece**	**Cap nut**	**Installation manual**		
1	1	1	1	1		

4] OPTIONAL ACCESSORIES

	SURFACE MOUNT						MORTICE
							
References	**L3L4** (300KG) **L5** (500KG)	**Z3Z4Z5**	**UBKU**	**UBKP**	**AMA3** (300KG) **AMA5** (500KG)	**DPM300 DPM500**	**AMCCHANFR16 AMCCHANFR20**
Description	"L" bracket for lock	"Z" bracket for lock	Armature base for glass door	Universal base for glass door	Armature base	Door position monitoring	Armature mounting plate

EN

ECM5000 - ECM5000M - ECS5000 - ECS5000M - ECS8000 - ECS8000M

Surface mount or Mortice Electromagnetic locks

Terminal block	Correspondence	ECS5000 ECS8000 ECM5000	ECS5000M ECS8000M ECM5000M
+	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

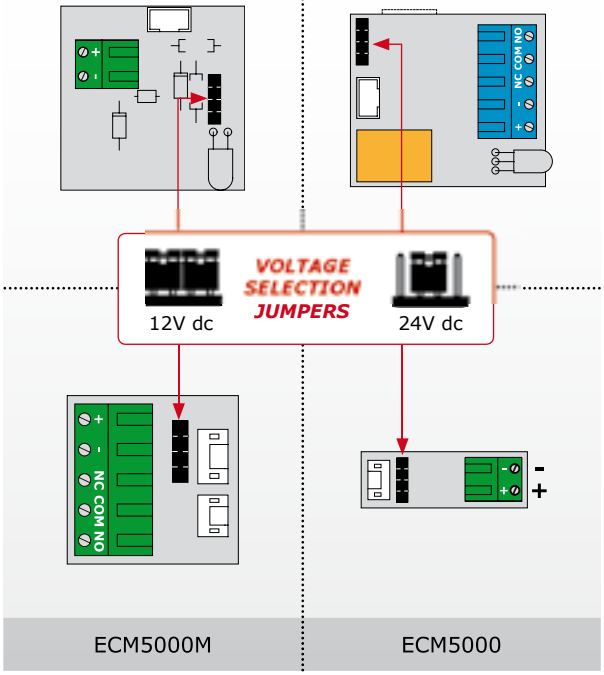
12V dc Default setup

- 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.
- 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.

WITH BUILT-IN PCB BOARD

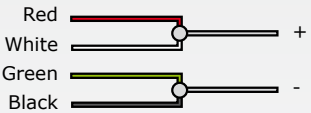
ECS5000 - ECS8000 | ECS5000M - ECS8000M



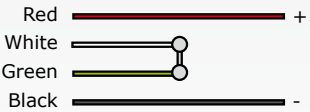
ECM5000M | ECM5000

DIRECT CONNECTION

12V DC



24V DC



CONTACT

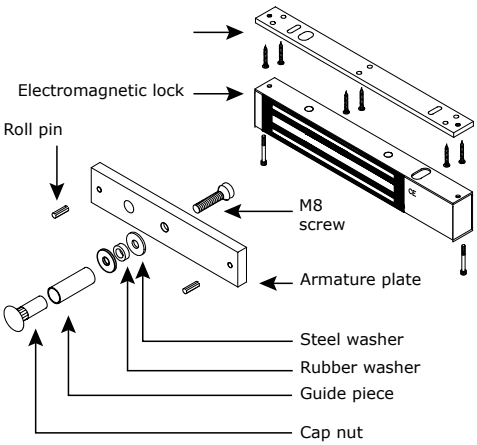
ECM5000 - ECM5000M - ECS5000 - ECS5000M - ECS8000 - ECS8000M

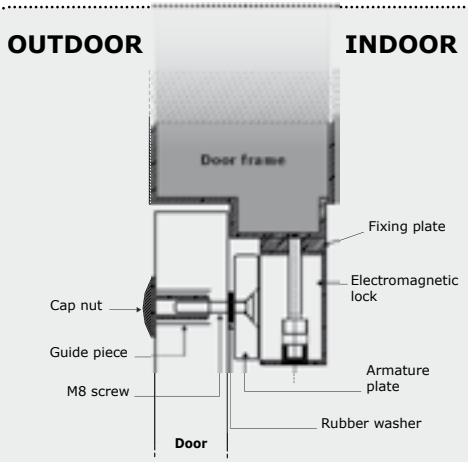
Surface mount or Mortice Electromagnetic locks

6] INSTALLATION

SURFACE MOUNT VERSIONS: ECS5000, ECS5000M, ECS8000 AND ECS8000M

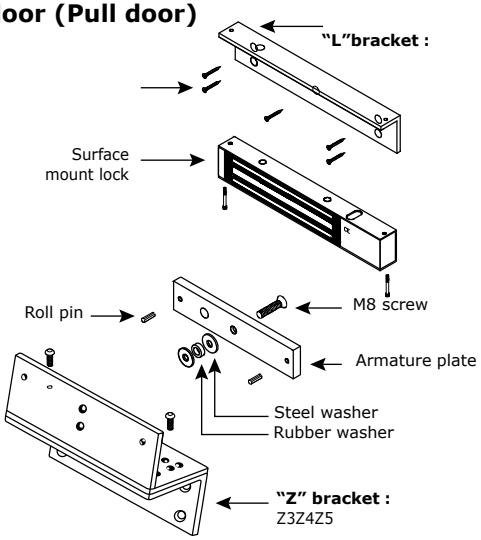
Installation on an outward opening door (Push door)

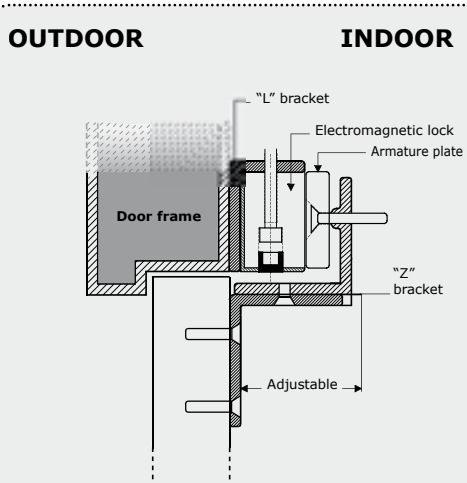




Outward opening door (push door).

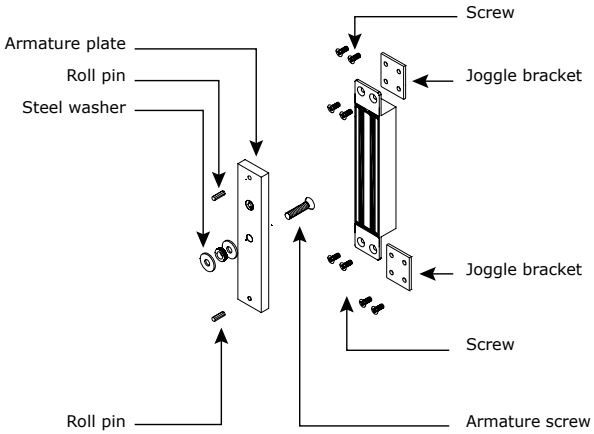
Installation on an inward opening door (Pull door)





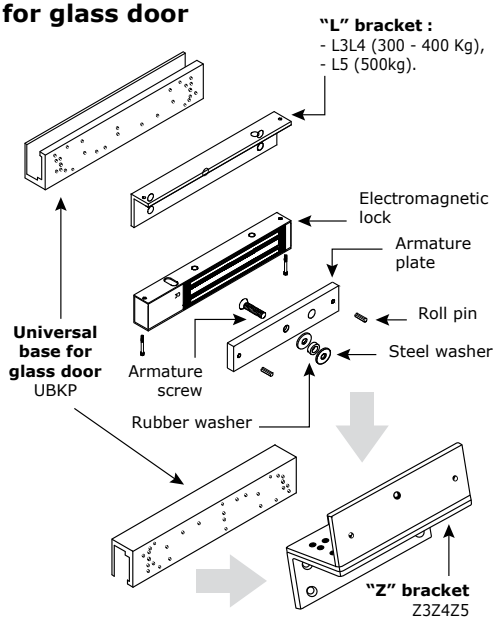
(installed with "Z" and "L" brackets)

MORTICE VERSIONS: ECM5000 AND ECM5000M

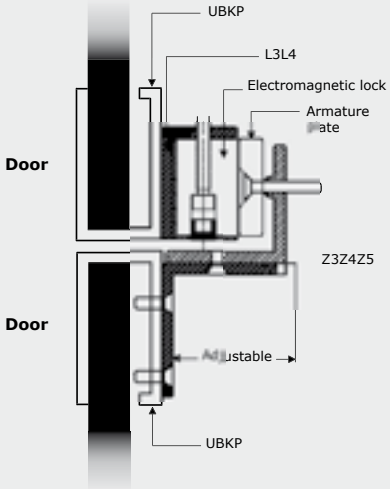


7] INSTALLATION WITH ACCESSORIES SURFACE MOUNT VERSIONS

Installation with base for glass door

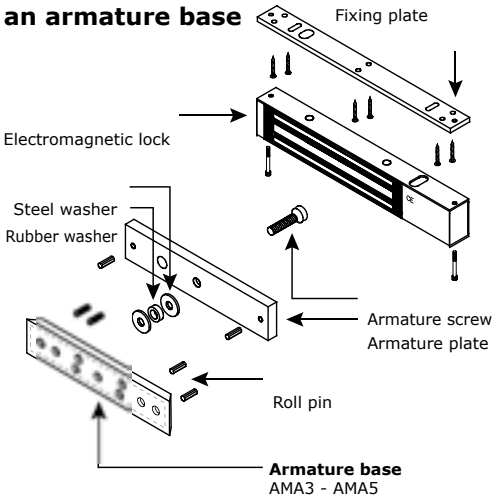


OUTDOOR

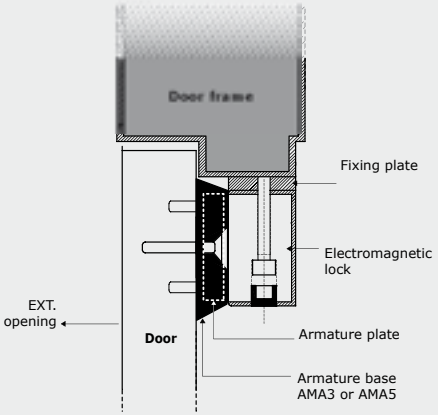


Inward opening door (Pull door)
(installed with "UBKP", "L3L4" and Z3Z4Z5 brackets)

Installation with an armature base

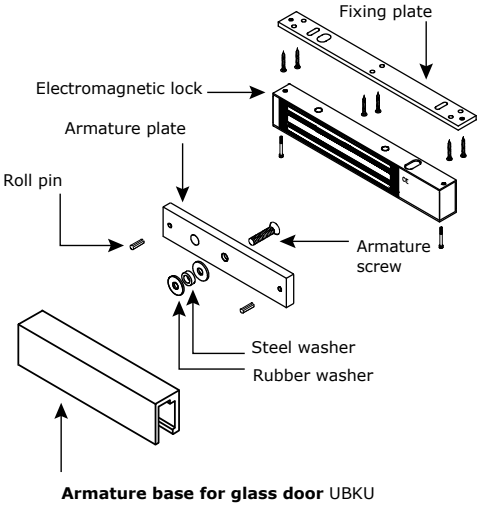


OUTDOOR **INDOOR**



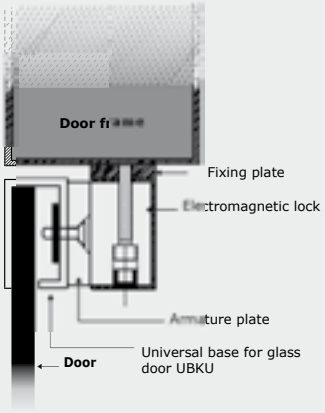
Outward opening door (push door).

Installation with base for glass door



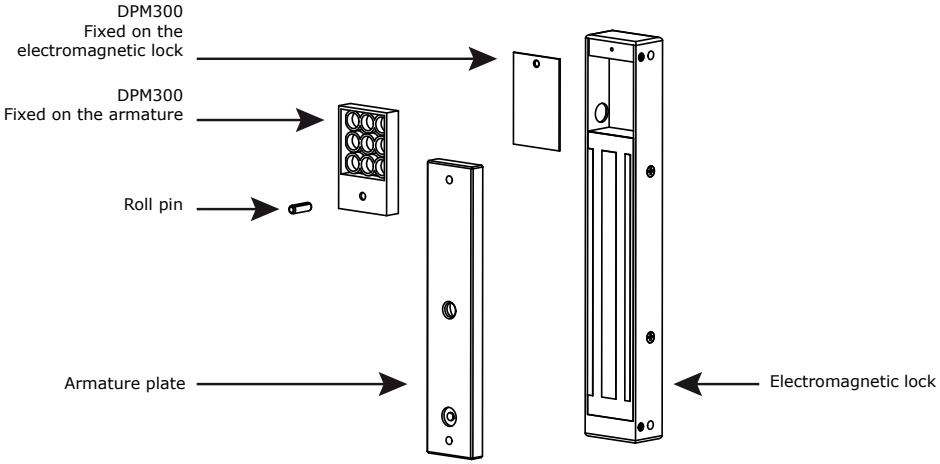
Armature base for glass door UBKU

OUTDOOR **INDOOR**



Inward opening door (Pull door)
(installed with UBKU brackets)

Installation with DPM300 - DPM500 (Door position monitoring)



8] FAULT FINDING

PROBLEM	POSSIBLE CAUSE	SOLUTION
Door locking impossible	The lock is not receiving DC current.	- Check that the wires are connected to the appropriate terminals. - Check that the power supply is compatible. - Check that the lock is connected to the circuit correctly.
Holding force reduced	The lock and the armature are not lined up with each other.	- Check that the lock is connected to the circuit correctly. - Check that the electromagnet and the armature are properly aligned. - Check that the contact faces are free from dirt and rust. - Check that the armature is soft mounted.
	Low voltage or armature jammed.	- Check that the lock is receiving the correct power supply satisfactorily. - check the tightening of the armature and the condition of the rubber.
Faulty reed switch	Voltage too low. Misalignment.	- Check the power supply. - Cable cross section to be determined according to the power supply and the locking. - e.g.: 2 x 1.5mm2 ≥ 10m.