

Z8 & Z4 Double Series Electro Magnetic Locks

PRODUCT INFORMATION

Product Specification:

Holding force (approx) - Z8D series : 550kg - 580kg each door

Z4D series: 250kg - 280g each door

12 & 24 volts DC operation (selectable).

NOTE: Factory default is 12VDC

Current draw:

Z8D series : 820mA at 12VDC; 420mA at 24VDC Z4D series : 920mA at 12VDC; 460mA at 24VDC

Product Type:

- Besides un-monitored version, all product series have either armature position sensing (APS) or door position sensing (DPS) or both.
- For Z8D and Z4D series, armature position sensing uses hall effect sensor.
- For Z8D and Z4D series, door position sensing uses change-over reed switch sensor.

Z8D and Z4D series with APS:

 The LED operation colour can be field set. The colours can be reversed simply by reversing the 2 pin plug connection on the PCB.

• The factory default setting is as follow:

LED indicator off
LED indicator red
LED indicator green
(No power to the magnet)
(Power on magnet, door open)
(Power on magnet, door closed)

 NOTE: Where the EML has both Hall/Bond sensor and Reed sensor, the LED indicates as per the Hall/Bond model.

Product Dimensions (Lx H x D)

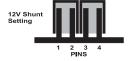
Z8D series - (L)532 mm x (H)72 mm x (D)40 mm Z4D series - (L)476 mm x (H)48 mm x (D)27 mm

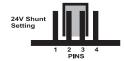
PRODUCT INSTALLATION AND WIRING

Installation Requirements:

- Adjust onboard PCB shunt settings for correct operating voltage prior to applying power to the EML.
- For 12 volts two shunts must be installed:
- First shunt joining pins 1 & 2
- Second shunt joining pins 3 & 4.

For a 24 volt system only one shunt is required, joining pins 2 & 3.





Product Power Input Wiring:

For Z8D and Z4D series, this can be wired directly onto the PCB terminal block that has label + and -.

Wiring for models with APS:

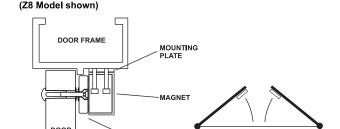
For Z8D and Z4D series, the signal is given out from Single Pole Double Throw (SPDT) relay. Wiring can be done through PCB 3-block terminal, labelled NC, COM and NO.

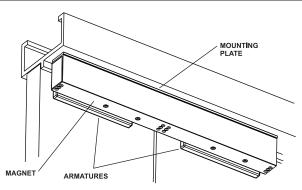
Wiring for models with DPS:

For Z8D series, the signal is given out from the 3 block terminal (NC, COM, NO) that is labelled Reed on the PCB. For Z4D series, there are 3 flying leads. Black is COM, green is NO and white is NC.

MOUNTING OF THE ELECTRO MAGNETIC LOCKS

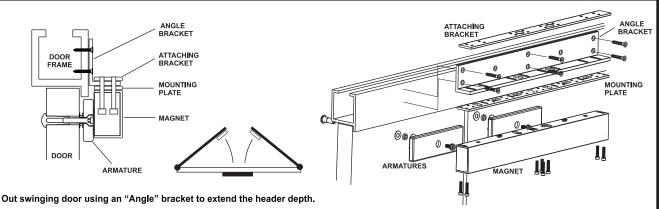
The following diagrams indicates possible installation methods. Determine whether the optional "L" or "Z" brackets are required to complete the installation. Suits door thickness 32 to 45mm,

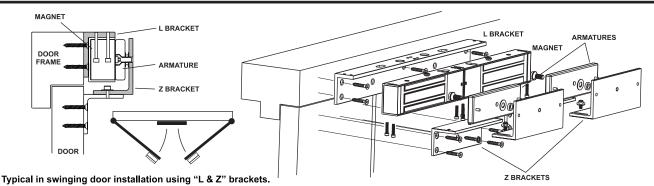


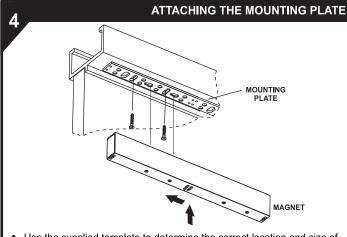


Out swinging door using the standard mounting plate.

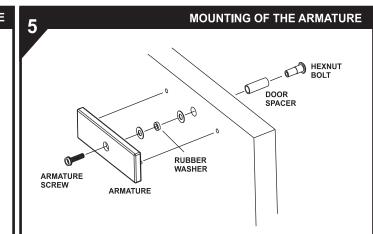
ARMATURE



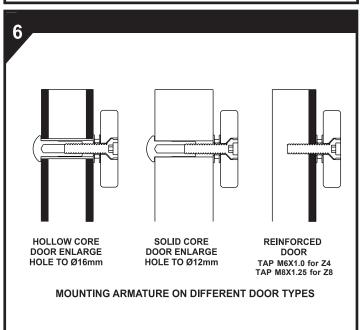


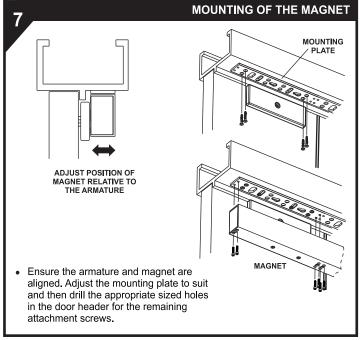


- Use the supplied template to determine the correct location and size of
 mounting holes for both the door and frame header. Ensure that the
 door opens away from the EML. In the case of a single door, the EML
 is positioned as close as possible to the vertical section of the door
 jamb.
- Loosely install the mounting plate using two of the supplied philips head mounting screws in the elongated slots. Attach the EML to the mounting plate.



- Align the armature plate on the door using sight or the template supplied.
- Mark and drill holes then mount the armature to the door. Make sure
 that the armature plate is not over tightened and that it is installed as
 shown in the following diagram. The armature plate must be free to self
 align with the door.





Assemble Glass Door brackets as shown. MOUNTING DOOR HEADER DOOR HEADER MOUNTING PLATE ARMATURE FIXTURE STEEL PLATE RUBBER PLATE GLASS DOOR HOLDER

ELECTRICAL CONNECTION

- Connect electrical wiring according to the local appropriate wiring rules. Make sure the correct voltage on the PCB has been selected prior to turning on the power. Failure to do this could damage the unit. Factory default voltage is set to 12VDC.
- Note: If a door closer has been fitted then adjust it so that the armature closes lightly against the magnet. This will avoid damage to the magnet and will also make the door operation quieter.

MAINTENANCE

- The electro magnetic lock does not require much ongoing maintenance The customer should be advised to keep the mating faces of the armature and magnet clean making sure that no abrasive materials are used to clean the faces.
- Do not spray the magnet or armature with any chemicals such as lacquer as the release of the electro magnet may be compromised.

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