

Z8 & Z4 Double Series Electro Magnetic Locks

PRODUCT INFORMATION

1

Product Specification:

- Holding force (approx) - Z8D series : 1200 lbs x 2
Z4D series : 600 lbs x 2
- 12 & 24 volts DC operation (selectable).
Note: Factory default setting 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 (No power to the magnet)
LED indicator red (Power on magnet, door open)
LED indicator green (Power on magnet, door closed)
- Note: where the EML has both APS and DPS, the LED indicates as per the APS model.

Product Dimensions (L x W x H):

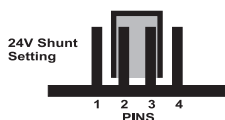
Z8D series - 532 mm x 72 mm x 40 mm
Z4D series - 476 mm x 48 mm x 26.5 mm

PRODUCT INSTALLATION AND WIRING

2

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:

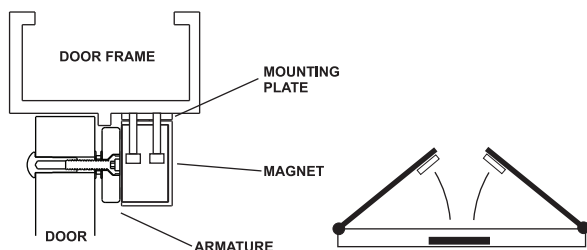
For Z8D and Z4D series, the signal is given out from SPDT relay. Wiring can be done through PCB 3-block terminal labels NC, COM and NO.

Wiring for models with DPS:

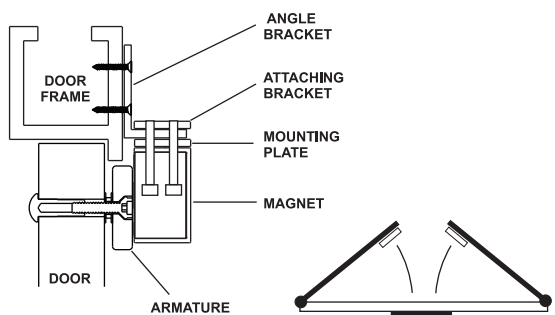
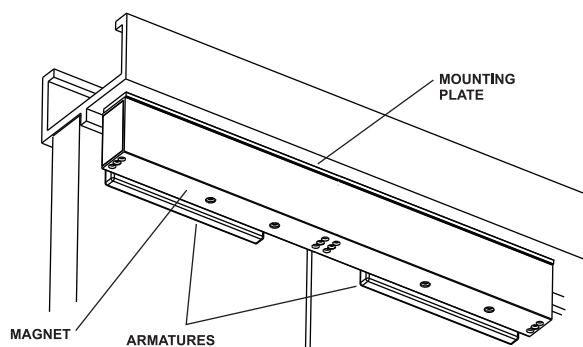
For Z8D series, the signal is given out from the 3 block terminal (NC, COM, NO) that is labelled Reed on the PCB. For Z4D series, there are 3 flying leads. Black is COM, green is NO and white is NC.

3

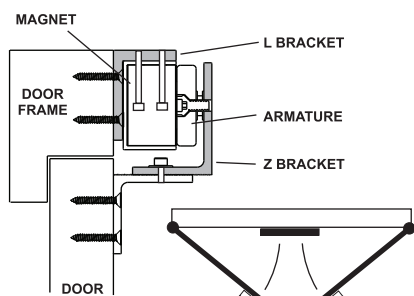
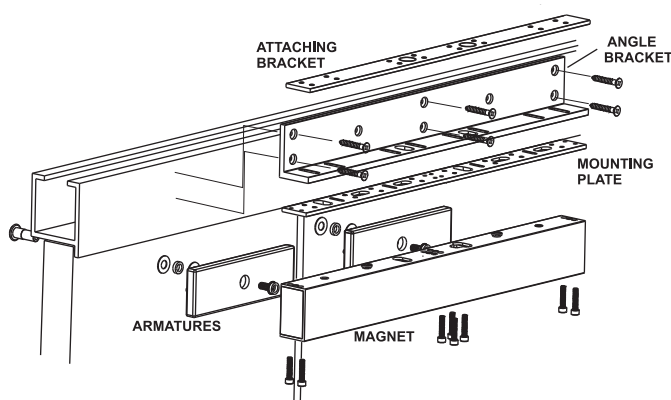
The following diagrams indicates possible installation methods. Determine whether the optional "L" or "Z" brackets are required to complete the installation. Suits door thickness 32 to 45mm, (Z8 Model shown)



Out swinging door using the standard mounting plate.



Out swinging door using an "Angle" bracket to extend the header depth.



Typical in swinging door installation using "L & Z" brackets.

