

Z4 and Z8 Single Series Monitored Electromagnetic Lock

General Description

The Single Series Electromagnetic Locks operate with holding forces from 250kg up to 580kg. Covering a range of applications the Z4 and Z8 Electromagnets are ideal for applications from Standard doors through to high use commercial swing doors.

With fixing options including wood, aluminium and steel constructions, as well as glass door applications, the range caters to most electromagnetic needs.

Key Features

- Fail-safe: unlocks when power is removed
- Easy installation: suitable for both new and retrofit usage
- High holding force: refer to the technical data overleaf
- Self-alignment: armature plate pivots to accommodate door drop
- Silent operation: no humming or buzzing
- Dual voltage: site selectable 12 or 24 Vdc
- Monitoring: Reed Switch monitoring on all models. Hall-Effect monitoring on Z4 and Z8 models.
- Instantaneous release: smart electronics on the Z Series Electromagnets eliminate residual magnetism

Monitoring

Hall / Bond Monitoring

This indicates that the lock is powered and that the armature plate is in position and magnetically bonded (it monitors if the magnet is locked)

Reed switch monitoring

An integrated reed switch monitors the door position separately (it monitors the position of the door)

Applications

- Aluminium doors
- Glass doors
- IT Storage rooms
- Access control
- Surface mount for inswing and outswing doors



Z4 Electromagnetic Lock - Monitored



Z8 Electromagnetic Lock - Monitored

Standards and Compliance



Successfully fire rated up to 4hrs on fire door assemblies in accordance with AS1905.1. 2005 (Part 1: Fire resistant door sets)

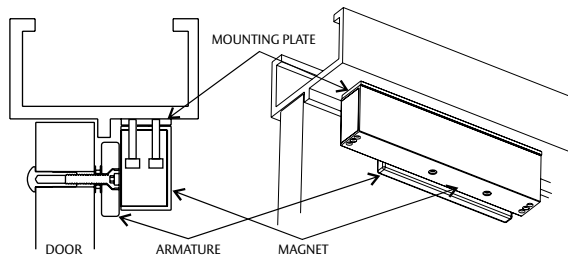


CE Approved

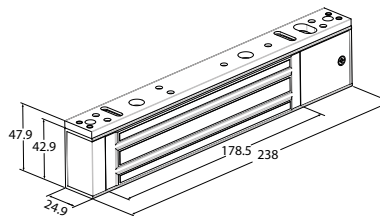


C-Tick Certified

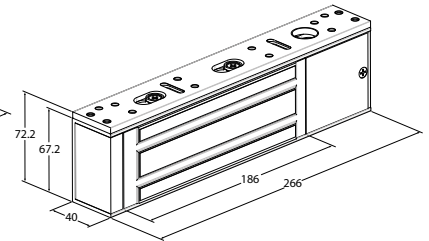
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Typical Install for Z4 & Z8 out swinging doors.



Z4 Electromagnetic Lock



Z8 Electromagnetic Lock

Single Series Technical Information

	Z4 Magnet	Z8 Magnet
Holding Force	250kg – 280kg	550kg – 580kg
Dimensions*	(L)238 x (H)48 x (D)27 mm	(L)266 x (H)72 x (D)40 mm
Voltage	12Vdc/ 24Vdc $\pm 10\%$	12Vdc/ 24Vdc $\pm 10\%$
Current	450mA @ (12Vdc) 225mA @ (24Vdc)	512mA @ (12Vdc) 256mA @ (24Vdc)
Monitoring	Hall-Effect/Bond sensing & Reed Switch	Hall-Effect/Bond sensing & Reed Switch
Operating Temperature	-10 to 55 Degrees	-10 to 55 Degrees
Operating Humidity	0 - 95%	0 - 95%

Specification Statement

Holding force is measured directly between armature and magnet, holding force on the door may vary depending on the leverage created. The Single Series Electromagnetic Lock should be constructed in an aluminium case with heavy duty electromagnet. The range only operates in fail safe mode and relies on a secondary lock or battery backup system. In some cases the magnet armature plate pivots to accommodate door drop. The lock needs to be equipped with “smart electronics” that have zero residual magnetism, (instantaneous release). This is crucial for correct operation.

Ordering Information

Product Description	Part Number
Z4 Electromagnet - Monitored	770300-012T
Z8 Electromagnet - Monitored	770600-012T
Accessories	
EMZ4 Bracket Single L & Z	EMZ4B-SLZ
EMZ4 Bracket Glass U 12Mm Glass	EMZ4B-GU
EMZ4 Bracket Glass Armature	EMZ4B-GA
EMZ4 Bracket Armature Monitored W/Magnet	EMZ4B-AM
EMZ4 Bracket Single Mounting Plate	EMZ4B-SMP
EMZ4 Spare Part Screw Kit	EMZ4SP-SC
EMZ4 Spare Part Pcb Monitored	EMZ4SP-PCBM
EMZ8 Bracket Single L & Z	EMZ4B-SLZ
EMZ8 Bracket Glass U 12Mm Glass	EMZ8B-GU
EMZ8 Bracket Glass Armature	EMZ8B-GA
EMZ8 Bracket Armature Monitored W/Magnet	EMZ8B-AM
EMZ8 Bracket Single Mounting Plate	EMZ8B-SMP
EMZ8 Spare Part Screw Kit	EMZ8SP-SC
EMZ8 Spare Pcb Monitored	EMZ8SP-PCBM