

Z Series Single Monitored Electromagnetic Locks

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

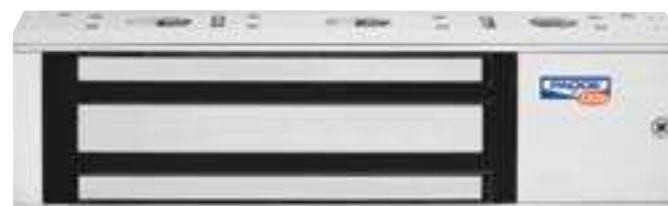
An integrated reed switch monitors the door position separately (it monitors the position of the door)

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)

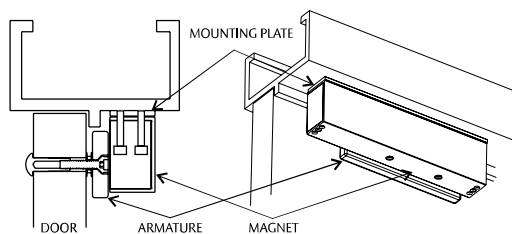


CE Approved

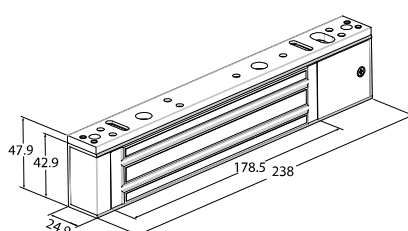


C-Tick Certified

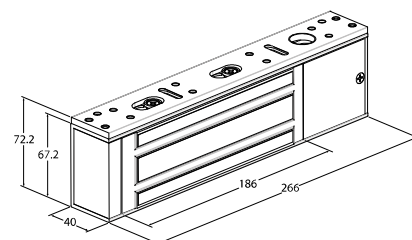
Z Series Single Monitored Electromagnetic Locks



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 ±10%	12Vdc/ 24Vdc ±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%

Holding force is measured directly between armature and magnet, holding force on the door may vary depending on the leverage created.

Specification Statement

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	770300-012
Z8 Electromagnet - Monitored	770600-012
Accessories	
Z4 L and Z Brackets	770300-901
Z8 L and Z Brackets	770600-901
Z4 Glass Door Brackets	770300-905
Z8 Glass Door Brackets	770600-905
Z4 Armature Bracket Monitored	770300-910
Z8 Armature Bracket Monitored	770600-955
Z4 Screw Kit	770300-913
Z8 Screw Kit	770600-950
Z4 Pc Board (Monitored)	770300-915
Z8 Pc Board (Non Monitored)	770600-013
Z4 Mounting Plate	770300-912