

# ES8000 V-Lock

## General Information

The ES8000, also known as the V-lock, is a high torque motorised bolt that moves from the vertical position to the horizontal state when locked. The bolt moves into the V shaped strike plate pulling the door aligned with the lock. The high torque motorised bolt can be concealed from view or surface mounted and has the worlds first fail-open motor locking mechanism which eliminates the need and cost of an additional key override function.

Slim design with classic satin stainless steel faceplate, and significant 7mm overall (+/- 3.5mm) door misalignment tolerance make ES8000 a product with great aesthetic appearance as well as easy installation.

## Features

- Side load - Pre-load Capable  
Lock will unlock with up to 15kg of side pressure, when wired in 3 wire mode.  
(1 x Permanent Power, (positive 12-24Vdc) wire. Negative (0 volt return) wire, and 1 x Switching input (positive 12-24Vdc) wire)
- Door misalignment of up to 3.5mm +/-
- Power to Lock (Fail Safe) / Power to Open (Fail Secure) field configurable
- High torque Motorised locking and unlocking (3 wire mode)
- High Speed Operation. Unlocks in less than 1 second
- Surface Mount Accessory Kit. Ideal for 180° swing through glass door applications
- Multiple Orientation – Interior Doors  
Can be mounted vertically or horizontally  
(For exterior doors ES8000 must be mounted horizontally)

## Applications

- Misaligned doors
- Timer doors
- Glass doors



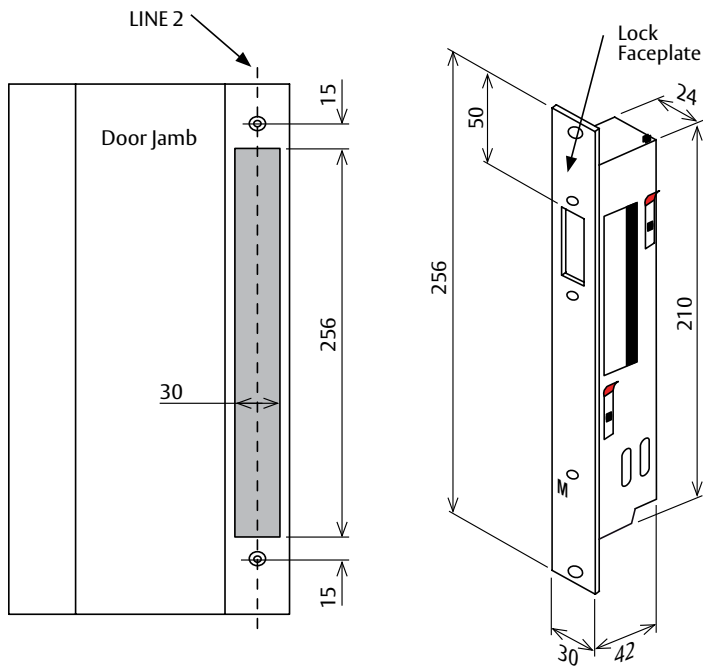
## Standards and Compliance

SCEC Endorsed (Intruder Resistant Bracket Required)

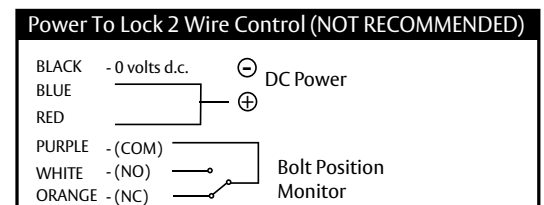
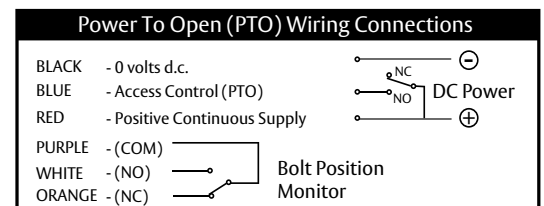
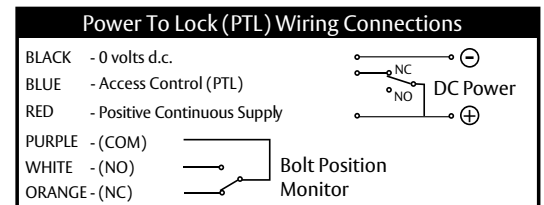


Successfully fire rated up to 4hrs on fire door assemblies in accordance with AS1905.1. 2005 (Part 1: Fire resistant door sets).

# ES8000 V-Lock



Wiring below shows lock in locked position



## ES8000 V-Lock Technical Information

<b>Voltage</b>	12 to 24Vdc, Voltage Tolerance 12V (+15% - 0%) 24V(+/- 15%)
<b>Current</b>	Minimum 1 Amp Regulated Supply
<b>Monitoring</b>	COM, NO, NC Voltage free changeover contacts rated at 48 dc/100mA
<b>Security</b>	Passed S3 (AS4145.2 -1993)
<b>Strength</b>	Maximum 1000kg (with supported strike plate)
<b>Side Load</b>	Side Load rated: Motorised Unlocking – 15kg max at bolt Fail Safe Unlocking – 3kg max at bolt
<b>Endurance</b>	300,000 operations
<b>Environment</b>	Operational temperature range -20°C to + 60°C
<b>Lock Body</b>	Stainless Steel Lock Body and Faceplate
<b>Bolt</b>	11mm diameter, 20.5mm projection

## Ordering Information

Product Description	Part Number
ES8001 V-Lock 12vdc Fail Safe 30mm F/P	118001-010
ES8002 V-Lock 12vdc Fail Secure 30mm F/P	118002-010
<b>Accessories</b>	
ES8000 V-Lock Glass door housing (Incl dress plate & fixing tape)	218000-000
ES8000 V-Lock strike plate with magnet (spare part)	218000-003

## Specification Statement

The lock must be a high torque motorised bolt with Preload tolerance. The strike plate must be shaped in a V format to accommodate for misaligned doors. Lock will unlock with up to 15kg of side pressure and will be powered with 12-24v and draw no more than 1000mA. The lock must be configurable for Power to Lock (Fail Safe) or Power to Open (Fail Secure). The lock must be triggered with a magnet positioned in strike plate, and be monitored for locked unlocked and door position.

# ES8000 Glass Door Bracket

## General Description

The ES8000 glass door bracket is the ideal solution when it comes to 180° swing through doors or double action glass doors. Until now we had to rely on other products for these applications. This bracket works in conjunction with the ES8000, and is not limited to glass thickness. As we know there are many factors that cause side load/pressure, the ES8000 resolves this problem and still offer a secure and reliable locking solution that is aesthetically appealing for glass doors.

The ES8000 Glass door bracket is fixed to the glass by means of 3M self adhesive tape. This type of fixing gives a great aesthetic appearance as well as easy installation.

**Note:** Two brackets are required if there is a glass header, also it's important to note that the bracket/s should always be installed at the secure side of the door.

## NOTES ON THE 3M SELF ADHESIVE TAPE

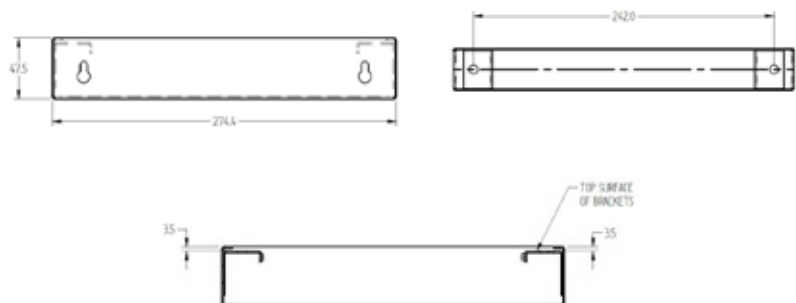
As per the 3M published data and given the surface area of the V-Lock glass door housing (around 20 sqin), this equates to around 900kg holding force under laboratory conditions. The actual shatter point of glass varies from door to door depending on the condition of the glass, (scratches, chips etc). But any attempt to leverage a glass door beyond 500kg will more than likely shatter it.

## Features

- Self adhesive holding force 900kg
- Includes dress plate for opposite side of door

## Applications

- Frameless glass doors with Solid header frame
- Frameless glass doors with frameless glass header (two brackets required)
- 90° and 180° single and double swing glass doors
- Other surface applications for timber doors.



## Ordering Information

Product Description	Part Number
ES8000 V-Lock Glass door Housing (incl Dress plate and 3M fixing tape)	208000-000