

**Side Load (Pre-Load) Capable**

Lock will open with up to 15kg of side pressure  
(3 wire control required)

**Caters For Door Misalignment**

+/- 3.5mm door misalignment tolerance

**Power to Lock / Power to Open**

Changeable on site

**High Torque Motorised Locking Operation**

Overcomes locking problems caused by  
differential air pressure or dust seals.

**High Speed Operation**

Unlocks in less than 0.2 sec.

**Surface Mount Accessory Kit**

Ideal for 180° degree swing through glass door  
applications

**Multiple Orientation - Interior Doors**

Can be mounted vertically or horizontally (for  
external doors ES8000 must be mounted  
horizontally)

**Electrical**

12vDC to 24vDC

Voltage Tolerance 12v (+15% - 0%)  
24v (+/- 15%)

Minimum 1 Amp Regulated Supply

Monitoring: COM, NO, NC Voltage free changeover  
contacts rated at 48vDC/100mA

**Mechanical**

Holding Force: Passed S3 (AS4145.2-1993)

Maximum 1000kg (with supported strike plate)

Bolt Dimensions: 11mm Diameter, 20.5mm Projection

Side Load: Motorised Unlocking - 15kg max at bolt

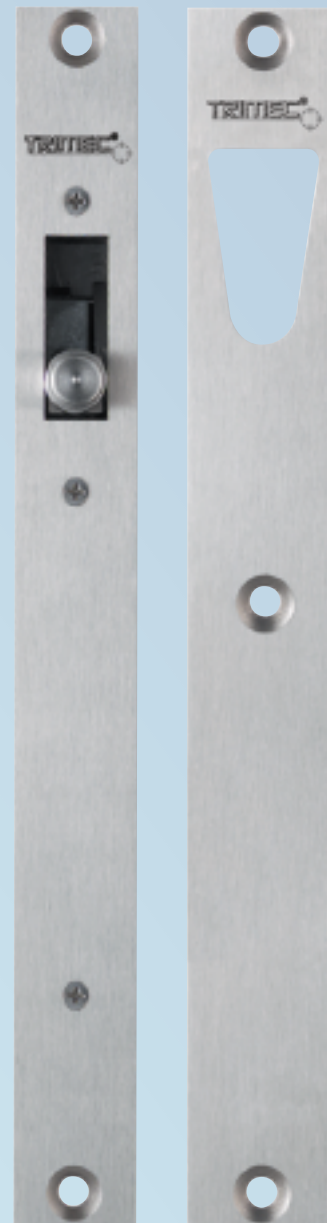
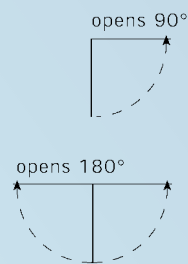
Fail Safe Unlocking - 3kg max at bolt

**Misalignment:**

+/- 3.5mm (7mm overall)

**Duty Cycle:**

>300,000 operations



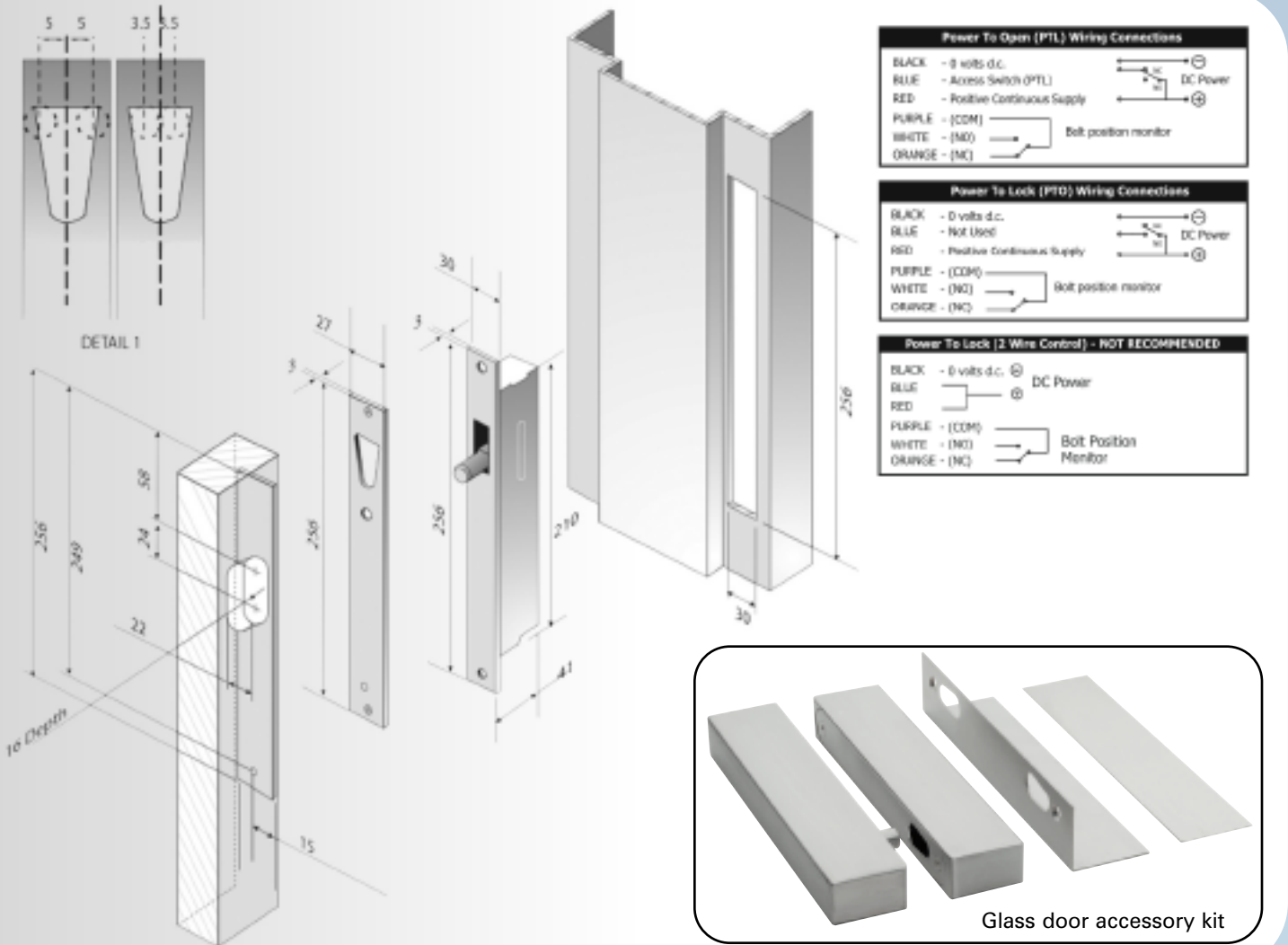
**The new TRIMEC V-Lock introduces patented features that overcome the problems of door misalignment in 180° swinging doors and the problem of side load with 90° doors. This new high torque motorised lock can be concealed from view or surface mounted and has the worlds first fail-open motor locking mechanism which eliminates the need and cost of an additional key override.**



*First Choice for Locking Solutions*

T 01202 676262 F 01202 680101 E info@iecltd.co.uk W www.iecltd.co.uk

Dimensions are shown in millimetres



## Operation

The Trimec ES8000 V-Lock is a micro-processor controlled monitored lock with built-in over current sensing and automatic re-locking ability. The lock is designed to be controlled with a battery backed 12-24vDC power supply and connected with a minimum of 3 wires, plus 2 additional wires for bolt monitoring (refer to wiring details shown above). When connected with 3 wires the motor will provide power assisted unlocking allowing the bolt to retract with up to 15kg of side load. In Power to Lock (Fail Open) configuration it is possible to operate the ES8000 using 2 control wires. With 2 wire control the lock relies on the Fail Open spring mechanism to unlock, this reduces the opening under side load capability to 3kg. For this reason we DO NOT RECOMMEND 2 wire control and it should be avoided if possible.

**Refer to Detail 1** - the effective locking window of the ES8000 is +/- 3.5mm however the lock will attempt to lock 5 times within 5mm either side of the strike plate centre line to compensate for random wind gusts or momentary misalignment. The ES8000 is not designed to compensate for a badly maintained or incorrectly adjust door and/or door closer.

## Ordering Information

DESCRIPTION	FUNCTION	CODE
V-Lock		
12/24v DC	Fail Open - Power to Lock	ES8001 PTLOCK
12/24v DC	Fail Secure - Power to Open	ES8002 PTOPEN

ACCESSORIES	FINISH	CODE
Surface mounting kit for glass door applications	Stainless steel	ES8000/SMH-KIT



**International Engineering Company Ltd** Harwell Rd Nuffield Estate Poole BH17 0BD Great Britain  
The Distributor with the difference

Registered in England 1925337  
© April 2006 IEC. All rights reserved. All dimensions are nominal and subject to tolerances



**T** 01202 676262  
**F** 01202 680101  
**E** info@iecltd.co.uk  
**W** www.iecltd.co.uk