

## High Security Motorised Drop Bolt With Pre-Load Capability VE1260 INSTALLATION MANUAL



### Introduction

The VE1260 is a motor driven Drop Bolt with pre-load capability. The VE1260 may be commonly installed vertically in the lock style of the door frame or horizontally in the door frame header. It has a symmetric dead-bolt mechanism to allow the device to be used on 180 degree swing through doors.

### Features

- Provides for door misalignment +/- 4.0mm from the door centre, 8.0mm in total with standard 27mm wide Strike Plate. Capable of +/-12.0mm (24mm total) with wider Strike Plate – (see accessories section for ordering info).
- Pre-Load / Side load capability:
  - Unlocking 3 wire** motorised mode - up to 35kg (when red and black wire are permanently powered, and blue is the control wire)
  - Unlocking 2 wire** mode - up to 6kg (when red and blue wires are joined to control lock)
  - Locking** in either 2 wire or 3 wire mode - up to 7kg
- Simple P.T.O./P.T.L. Locking Mode changeover
- Small size (fits into most existing standard drop bolt cutouts)

### Applications

The VE1260 Motorized Drop Bolt can operate with any type of access control or intercom system as the sole means of locking, either hinged or pivot hung doors including 180degree swing through doors. It can also be applied to hinged doors as an additional locking device to add extra security and strength to a door set. Because of its size it can be used as a replacement for existing standard drop bolts with little or, in some cases, no modifications to the door or door frame. In combination with a stainless steel surface mount box, the VE1260 is suitable for frameless glass doors and glass frames. The lock can be either mounted horizontally in the door header or vertically (internal doors only) in the door frame lock style.

The device is not weather resistant and should only be installed in a weather protected area.

The device should not be installed in pool areas and the like with a high content of chlorine in the air.

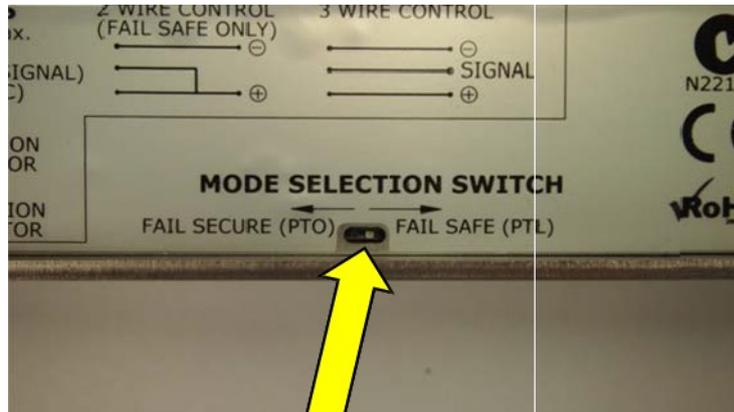
## Technical Specification

Power Input	12-30VDC
Power Consumption	Minimum 1A Regulated Power Supply recommended Locking/ unlocking cycle current is 0.25 to 1A depending on the side load. More side load = more current. After locking/unlocking the current drops down to 7mA to 15mA
Monitoring switch specification	Bolt changeover switch                      30VDC 0.1A Max Door position reed switch                      30VDC 0.35A Max
Wiring Requirements P.T.L. (Fail Safe)	<b>3 Wire Configuration (Recommended)</b> Black    0v Red      Continuous Positive 11-30VDC Blue     Access control. Connect to positive to activate the bolt. (Strike plate must be present) <b>2 Wire Configuration (Not recommended - unlocking by spring operation only)</b> Black    0v Red and blue are connected together. When power is applied to the Red/Blue wires and the strike plate magnet is present the VE1260 will lock
Wiring Requirements P.T.O. (Fail Secure)	<b>3 Wire Configuration</b> Black    0v Red      Continuous Positive 11-30VDC Blue     Access control. <b>Disconnect from positive to activate the bolt.</b> (Strike plate magnet must be present) <b>Connect to Positive to unlock.</b> <b>2 Wire Configuration</b> There is no 2 wire configuration for P.T.O. (Fail Secure)
Bolt Position Monitoring (unlocked position)	White      -N.O. Purple     -COM Orange     -N.C.
Wiring Door Position Monitoring	Green -Reed switch Green -Reed switch Normally Open, with door open The door has to be closed to activate the Door Position Monitoring. The lock has to be lined up with the strike plate within the tolerances of +/- 4mm to activate the lock.
Durability	Meeting Australian Standard AS4145.2 - 2008 400.000 operating cycles Durability D7
Strength	Meeting Australian Standard AS4145.2 - 2008 Static Strength S8 (611kg for 1 minute) Impact Strength S8
Operating Temperature	-20 to +60 degree Celsius.
Maximum Door Gap	8mm
Certifications	CE RCM (C-Tick) Fire rated in accordance with AS1905.1.2005 Part 1 & BS476 to up to 4 hours on fire door assemblies

## Locking Mode setting PTL (Fail Safe) or PTO (Fail Secure).

The operation mode is set by a small changeover switch on the side of the lock. The default setting from the factory is Power to Lock (Fail Safe). If Power to Open (Fail Secure) is required, use the changeover switch to reset the Locking Mode.

If the lock has been powered up, it may be necessary to either remove power to the lock for 5 minutes or cycle the lock once to ensure that the changeover has come into effect.



PTL(Fail Safe)/PTO(Fail Secure) Changeover switch

### WIRING CONNECTIONS

11-30 VDC; 0.015 TO 1 Amp Max.

BLACK - 0 VDC  
BLUE - ACCESS CONTROL (SIGNAL)  
RED - POSITIVE (11-30VDC)

WHITE -	N.O.		BOLT POSITION MONITOR
PURPLE -	COM.		MONITOR
ORANGE -	N.C.		
GREEN -	N.O.		DOOR POSITION MONITOR
GREEN -			

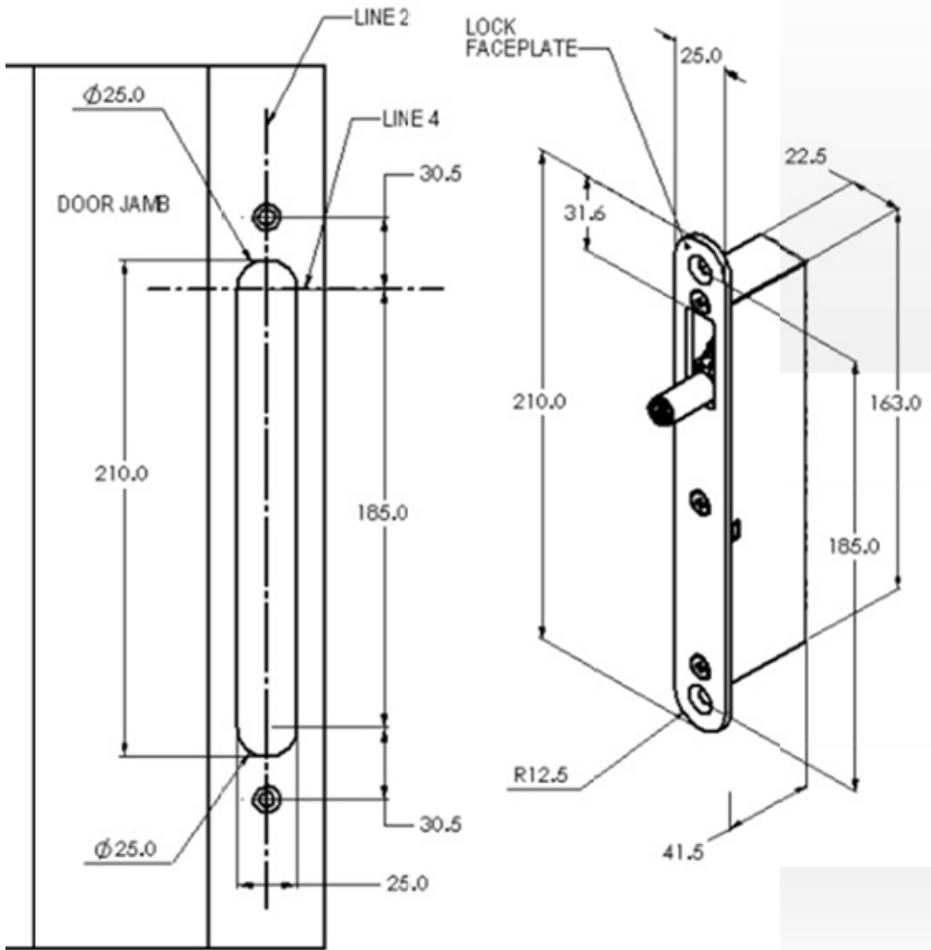
3 WIRE CONTROL  
(FAIL SAFE/FAIL SECURE)

	⊖
	SIGNAL
	⊕

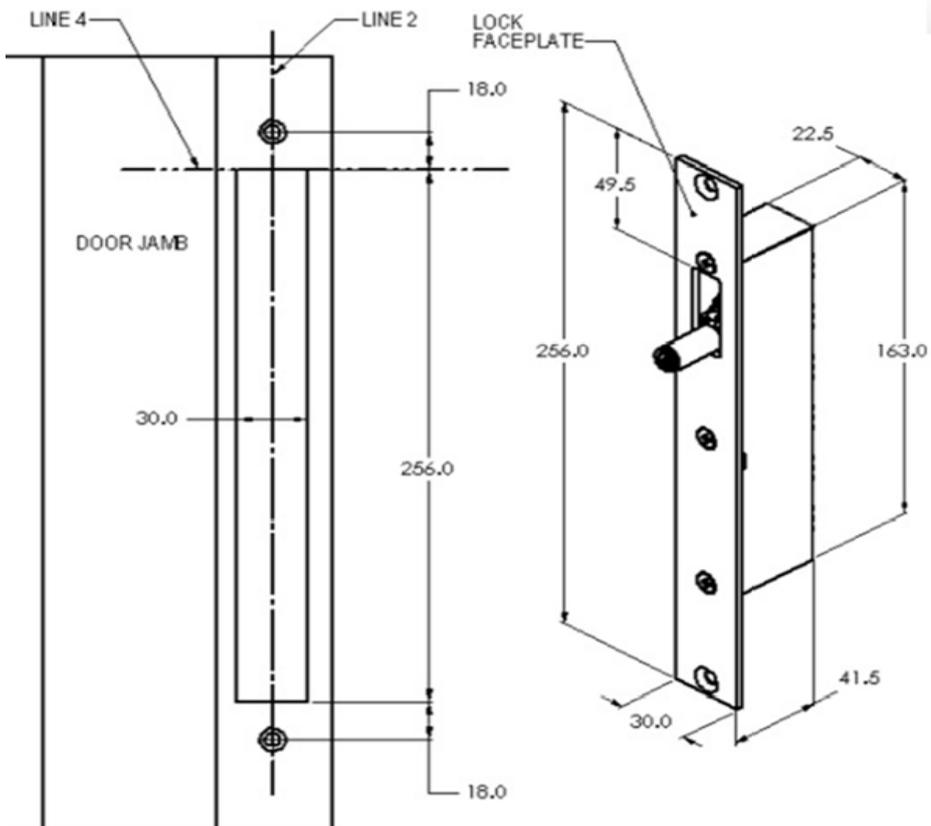
***Permanent power is required in all modes of operation. 2 wire operation is not recommended***

**Please note - When a fire system removes all power from the VE1260, the locking cam will disengage. The return spring only will unlock the door. Any side load greater than 3kg. will possibility cause the bolt not to retract until the side load is removed.**

# Product & Cut-Out Dimensions



VE1260R Round Edge



VE1260S Square Edge

## Notes

- **Please note the locking device must only be used in weather protected areas.** It is not recommended to vertically mount the VE1260 on external entry doors. If necessary then it is recommended that the lock be installed upside down with the aperture at the bottom. This will prevent any water that does inadvertently enter the product from pooling in the circuit board area.
- **Under any circumstance water damage is not covered by warranty.**
- Connect the device and apply power, allow the door to open and close normally. When the door closes and the magnet of the strike plate is line up within the locking range, the bolt of the locking device will engage within the strike plate and lock the door.
- Locking device must only be installed vertically or horizontally within or on the door frame.
- Floor mounting is not recommended and will void the warranty.
- Locking device requires a strike plate to operate. It also requires the strike plate to correctly align with the lock faceplate.

<b>Electromechanical Drop Bolts</b>	
VE12 60R	VE-Lock Pre-Load Drop Bolt 25mm Face Plate including 27mm Strike Plate ROUND EDGE
VE12 60S	VE-Lock Pre-Load Drop Bolt 30mm Face Plate including 2 mm Strike Plate SQUARE EDGE (PADDE ES8000 Replacement)
<b>Accessories</b>	
VE1260R-GL-D012	Surface mounting box for door mounting. Supplied with wide strike plate to cater for -/+12mm door misalignment. Mount with 3M VHB tape (tape not supplied) Trim plate also supplied.
VE1260R-GL-FR	Surface mounting box for frame mounting of VE1260R (VE1260R not supplied). Mount with 3M VHB tape (tape not supplied) Trim plate also supplied
Box Note	Both VE1260R-GL-DO12 and VE1260R-GL-FR are both required for glass door and glass header fitting. A VE1260R is also required.
VE1260S-ST6	Strike Plate 31mm for VE1260 Series to cater for -/+6mm door misalignment minimum Door Thickness 35mm SQUARE EDGE
VE1260S-ST9	Strike Plate 35mm for VE1260 Series to cater for -/+9mm door misalignment minimum Door Thickness 40mm SQUARE EDGE
VE1260S-ST12	Strike Plate 40mm for VE1260 Series to cater for -/+12mm door misalignment minimum Door Thickness 50mm SQUARE EDGE
<b>Spare Parts</b>	
VE12 60R-ST4	Standard Strike Plate 27mm spare part for VE1260R to cater for -/+4m door misalignment ROUND EDGE
VE12 60S-ST4	Standard Strike Plate 27mm spare part for VE1260S to cater for -/+4m door misalignment SQUARE EDGE

## Glass Door Mounting Option

The VE1260 can be attached to a full glass door by surface mount boxes.

**DOOR** - To attach the striking plate to the door a **VE1260GL-DO12** is required. This box includes a wide striking plate and a trim plate.

**FRAME** - If the door header is full glass then a **VE1260GL-FR** is also required. This box includes an adaptor to allow the VE1260R (R for round end) to be installed in the box. A trim plate is also included. The wiring hole must be drilled by the installation technician in the appropriate location.

Both products are attached to the door with 3M VHB tape which is NOT included with product.

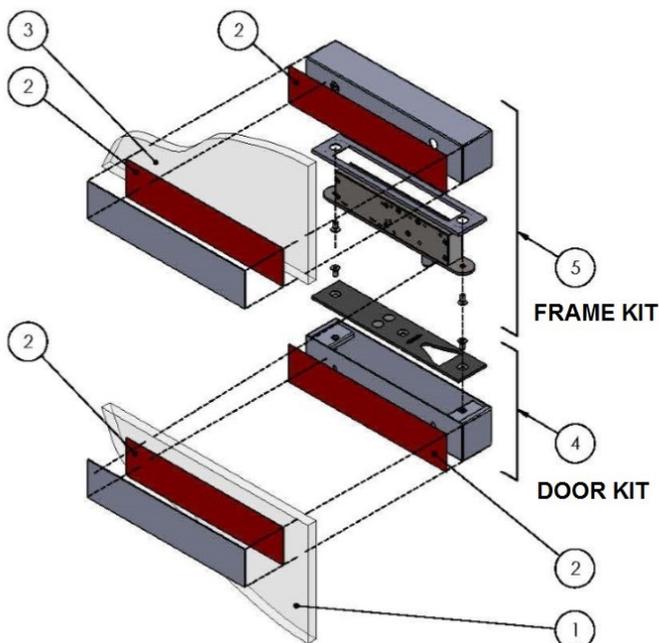
The trim plates hide the box and tape from the opposite side of the glass.



VE1260GL-DO12



VE1260GL-FR



### VE1260GL - Glass Door Mount

ITEM NO.	PartNo	DESCRIPTION	QTY.
1		GLASS DOOR	1
2	SUPPLIED BY OTHERS	3M VHB ADHESIVE TAPE No. 4910	4
3		GLASS HEADER	1
4	VE1260GL-DO12	VE1260R GLASS DOOR MOUNT - DOOR KIT	1
5	VE1260GL-FR	VE1260R GLASS DOOR MOUNT - FRAME KIT	1

**Please note VE1260R is not included in Frame Kit**