

Installation Manual

ELECTRIC STRIKE FES90M-P



PRODUCT FES90M-P

HIGH SECURITY ELECTRIC EcoStrike™ WITH PRE-LOAD CAPABILITY –AUSTRALIAN FOOTPRINT

The patented FES90M-P motorised High Security Electric EcoStrike with up to 35kg Pre-Load capability is a revolutionary electric locking solution. With a high Pre-Load /Side-Load tolerance and minimal energy consumption in ‘Sleep-Mode’ it is a truly “Green Locking Solution”.

The strike accepts voltages from 10 to 30VDC, is pre-drilled for extension lips and has a unique and simple fail secure (power to open)/ fail safe (power to lock) switch-over function.

The door strike provides 3 forms of monitoring:

1. LSS (Lock Status Sensor)
2. DSS (Door Latch Sensor)
3. DPS (Door Position Sensor)

The electric strike consumes current less than 300mA @ 12VDC at full 35kg pre-load only during locking and unlocking action. In the locked or unlocked state (Sleep-Mode), the electric strike consumes current less than **15mA @ 12VDC**.

Technical Details

PART NO.	FES90M-P
FUNCTION	Mortise Mount, power-to-lock/power-to-release field interchangeable, 35Kg of Pre-Load capability
HOLDING STRENGTH & DURABILITY	Up to 1370kg Tested to 1.5Mill full 35kg pre-load cycles
VOLTAGE/CURRENT	Multi Voltage 10-30VDC Action Mode: 300mA @ 12VDC at full 35kg pre-load only during locking and unlocking action Sleep-Mode: 15mA @ 12VDC in locked or unlocked mode
APPROVALS	4 hour fire rated to A.S. and B.S. Standards CE C-TICK
MONITORING	LSS - Status Sensor of the internal locking mechanism DSS - Door Latch Sensor, Door latch engaged within strike keeper DPS - Reed Switch Built-in, monitoring the door position
ENVIRONMENTAL	Operational Temperature Range -20 to +60C

WIRING

Power Input	Multi Voltage 11-30VDC	12 VDC – current 220 mA	24 VDC – current 110 mA
Wire output	Red (+)	Black (-)	
LSS (Lock Status Sensor)	Black (Common)	Yellow (NO-PTO); (NC-PTL)	Green (NC- PTO); (NO-PTL)
DSS(Door Status Sensor)	Black (Common)	Blue (NO)	Orange (NC)
ATS (Anti – tamper Sensor)	Black (Common)	Red (NO)	White (NC)
Sensor Output	LSS Sensor Output 3 A, 125 VAC; 2 A, 30 VDC.	DSS Sensor Output 3 A, 125 VAC; 2 A, 30 VDC.	Anti-tamper Sensor Output 5 A, 125 VAC; 3 A, 250 VAC.

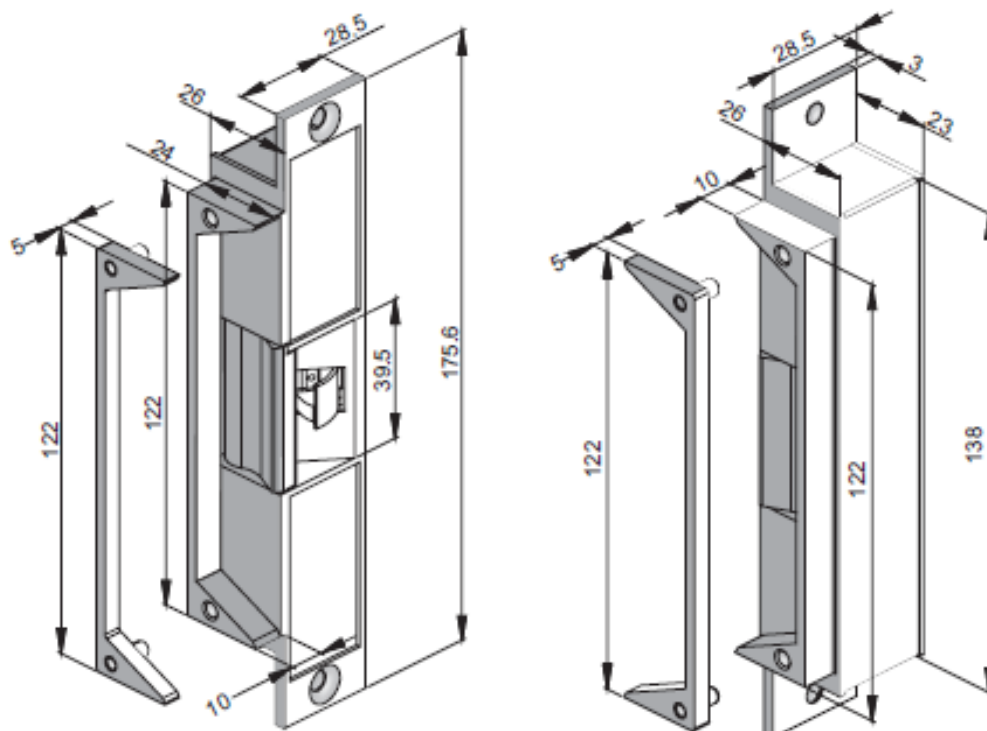
NOTE

FES90M-P Electric Strike factory setting is Power to Lock (PTL).

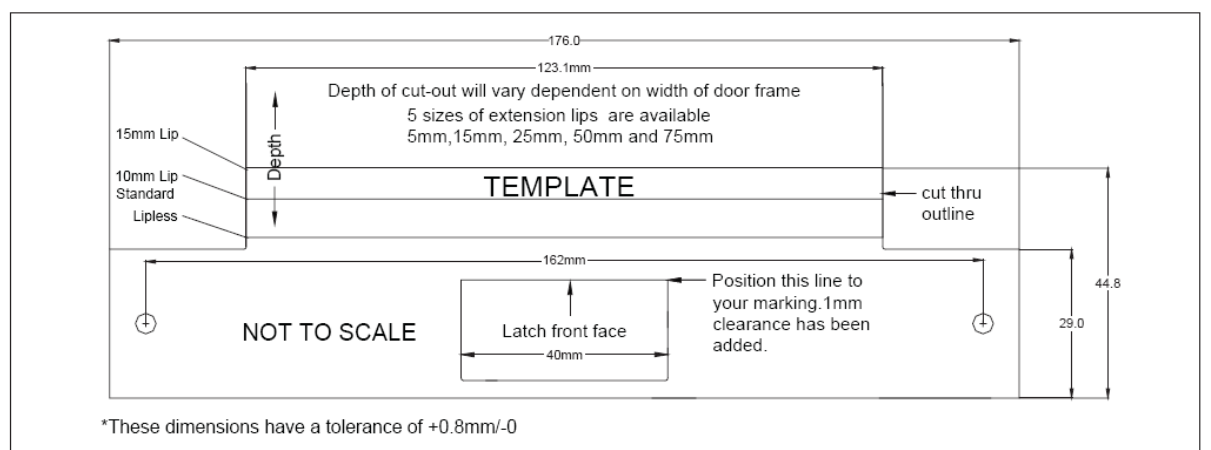
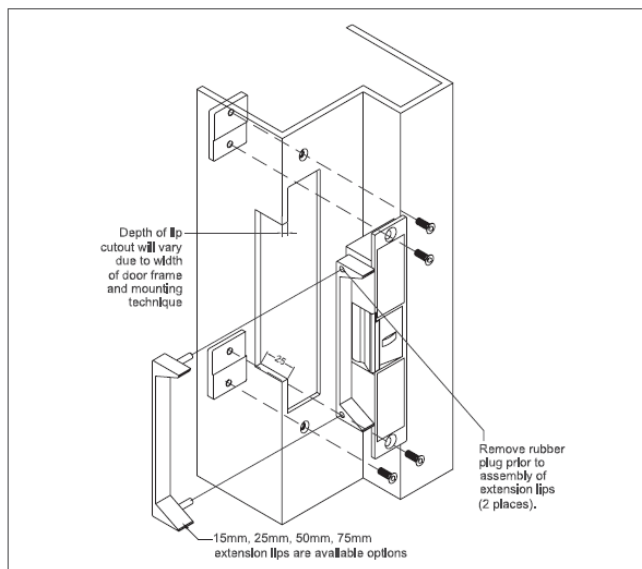
The control circuit for the door strike is protected against reverse polarity connection.

No additional diode protection required.

PRODUCT DIMENSIONS

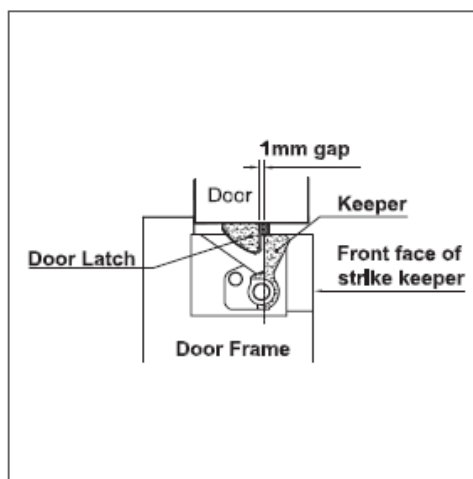
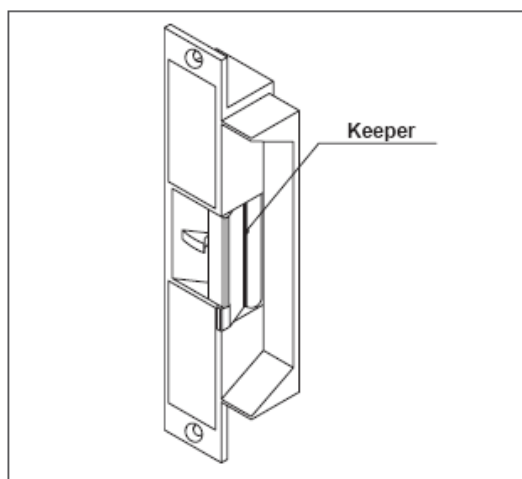


INSTALLATION



If the frame is not prefabricated, use the enclosed stick-on template to prepare strike cut-out in frame. Install strike as described in diagram.

POSITION OF DOOR LATCH



As drawn in the diagrams, there should be a 1mm gap between the door latch and the front-face of the strike keeper, preventing the door from creating back pressure on the strike keeper when the door is closed.

ORDER DETAILS AND ACCESSORIES

PART NO.	PRODUCT DESCRIPTION
FES90M-P	High Security Electric Strike Australian Footprint monitored 10mm Lip
FES20-EL15	FES20 Extension Lip 15mm
FES20-EL25	FES20 Extension Lip 25mm
FES20-EL50	FES20 Extension Lip 50mm
FES20-EL75	FES20 Extension Lip 75mm

CONVERSION FROM EX-FACTORY SETTING PTL (POWER TO LOCK) TO PTO (POWER TO OPEN)

1

Prepare changeover tool



2

Fully loosen both of the capstan release screws (screws are captured by the plastic grommet)



3

Remove the rubber cap to expose the capstan changeover wheel

