

**PRODUCT FEL990 SERIES - NEW 12-PIN PLUG DESIGN**  
ELECTRIC MORTICE LOCK



FEL990 SERIES

**PRODUCT DESCRIPTION**

The FEL990 Series Electric Mortice Lock is a true multi-functional locking device. It has been developed for simplicity - simplicity for the stockist, the installer and the end-user. Only two options are available – either monitored or non-monitored.

The FEL990 Series locks can be easily site configured as follows:

- single-sided locking (Vestibule) / double-sided locking (Combination)
- power to lock (fail safe) / power to open (fail secure)
- left hand / right hand operation

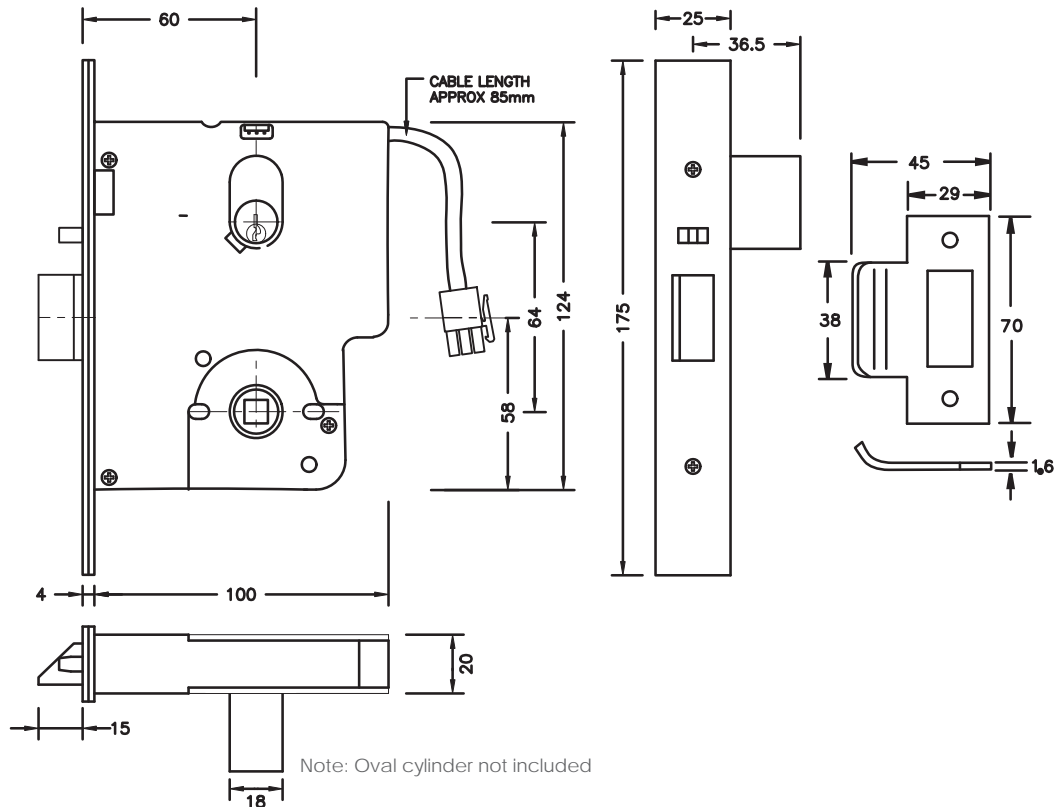
FEL990M also includes comprehensive monitoring:

- Door position monitoring by reed switch
- Lock status monitoring by a combination of 3 locking parameters
  - locking bar (Hub/Handle/s locked)
  - deadlatching bolt (depressed)
  - latchbolt (out)
- Dual key override monitoring (KOM)
- Request to exit (REX) via hub/handle(s)
- LED indication

**TECHNICAL DETAILS**

PART NO.	FEL990M	FEL990
FUNCTION	Vestibule and Combination lock (field selectable of either/or both sides locked) Lock handed ( Left Hand/Right Hand field selectable)	
LOCK OPERATION	FAIL SAFE / FAIL SECURE adjustable on site – one product for both applications	
VOLTAGE/CURRENT	Multi-voltage - 12-24VDC / 350mA momentary, 100mA operating including LED furniture if applicable Reverse polarity protected Lock secure status and key override microswitch max. rating 500mA@30VDC Door status reed switch max. rating 100mA operating	
APPROVALS	<ul style="list-style-type: none"> <li>• C-tick</li> <li>• Tested to 4 hour on fire door assemblies as specified in AS/NZ 1905.1 – 1997 Part 1 Fire Resistant Doorsets</li> <li>• Conforms to S3* (Security) and D3 (Durability) Australian Lock Standard (AS4145.2 : 1993)</li> <li>• Conforms when used with equivalent S3 keying system</li> </ul>	
MONITORING (990M VERSION ONLY)	<ol style="list-style-type: none"> <li>1. Door position monitoring by reed switch</li> <li>2. Lock status monitoring by a combination of locking parameters                             <ul style="list-style-type: none"> <li>• Locking bar (hub/handle/s locked)</li> <li>• Deadlatching bolt (suppressed)</li> <li>• Latchbolt (out)</li> </ul> </li> <li>3. Dual key override monitoring (KOM)</li> <li>4. Request to exit (REX) via hub/handle(s)</li> <li>5. LED indication</li> </ol>	
ENVIROMENTAL	-20 to +60 degrees C	
DOOR THICKNESS	32 – 50mm	
BACKSET	60mm Optional: 70mm, 89mm and 127mm	
CABLING	3m cable with 12 pin plug supplied	
STANDARD FINISH	Satin stainless steel (other finishes on request)	
FACTORY CONFIGURATION	Vestibule   60mm backset   Fail safe   Left handed   Satin chrome finish	

## PRODUCT DIMENSIONS



## SPECIFICATION STATEMENT

The lock should be capable of operation on voltages between 12 -24VDC and have a current consumption not more than 100mA (holding).

Monitored locks must be capable of monitoring the following functions:

- Key override
- Door position reed switch
- Latch bolt, dead latching bolt and locking bar microswitches (compatible with other brands)

All settings, including fail safe / fail secure, handing and hub REX selection, must be field configurable

## ELECTRICAL SPECIFICATIONS

**Solenoid Activation**  
12-24VDC 350mA momentary,  
100mA max operating,  
Including LED (if applicable)

**Lock Secure Status/  
Key Override Monitor**  
Microswitch max. rating  
500mA@30VDC

**Door Status Monitor**  
Magnetic Reed Switch  
100mA operating

**Plug arrangement**  
12 pin plug with 3m cable

**Request to Exit (REX) Switches**  
Microswitches max. rating  
1A@125VAC