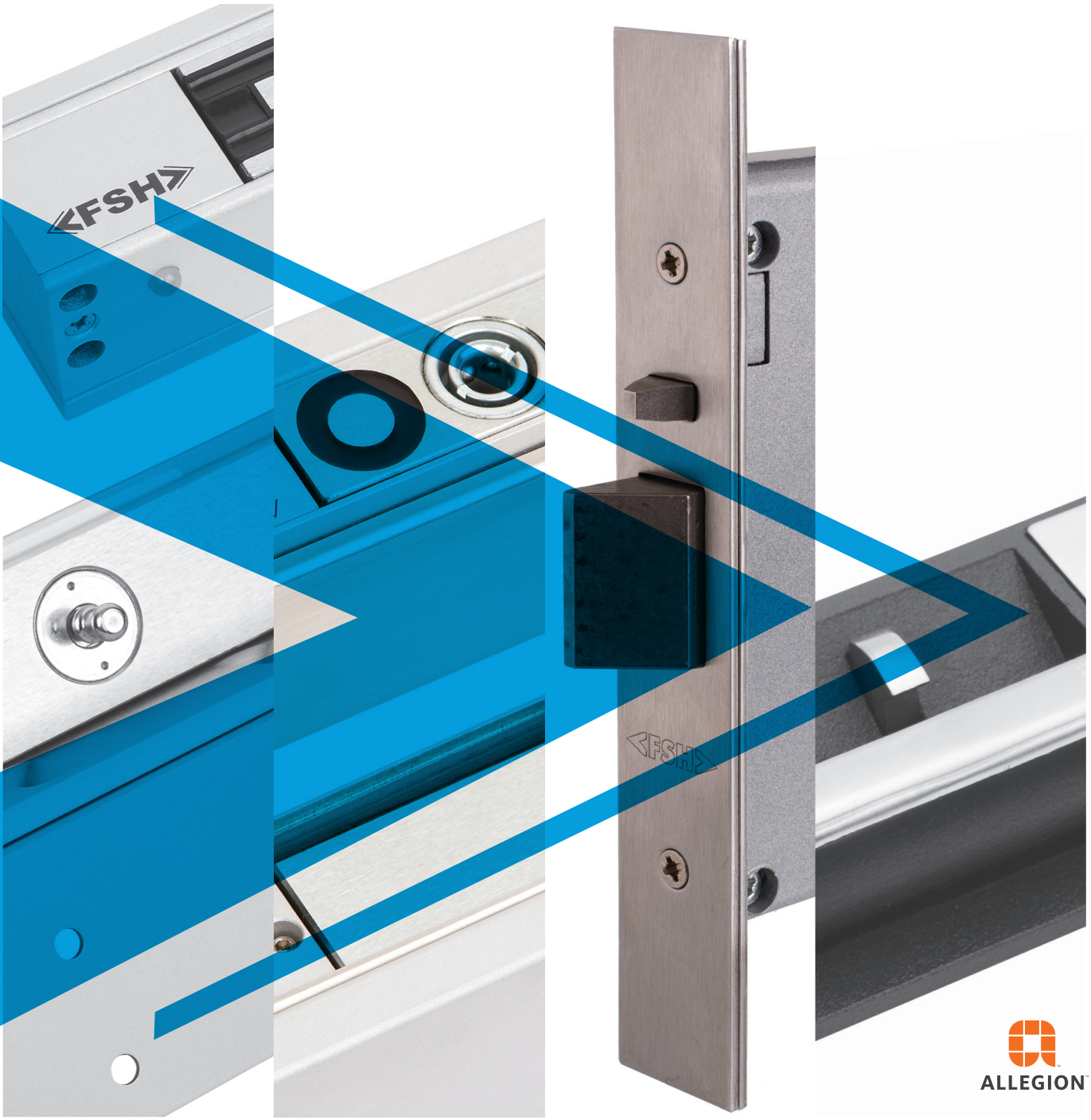
FSH LOCKING
Electric Mortice Locks



ALLEGION

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PRODUCT FEL990 SERIES
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

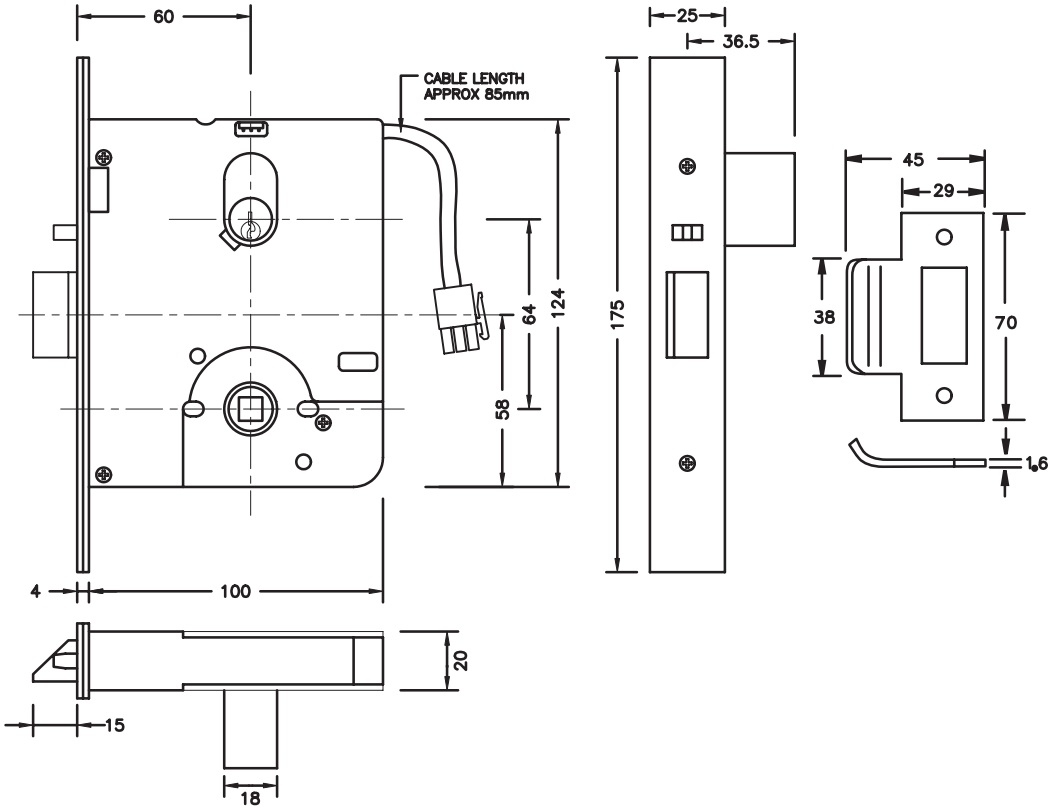
FEL990M also includes comprehensive monitoring:

- 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	• C-tick • Tested to 4 hour on fire door assemblies as specified in AS/NZ 1905.1 – 1997 Part 1 Fire Resistant Doorsets • Conforms to S3* (Security) and D3 (Durability) Australian Lock Standard (AS4145.2 : 1993) • Conforms when used with equivalent S3 keying system	
MONITORING (990M VERSION ONLY)	1. Door position monitoring by reed switch 2. Lock status monitoring by a combination of 3. Locking parameters • Locking bar (hub/handle/s locked) • Deadlatching bolt (suppressed) • Latchbolt (out) 4. Dual key override monitoring (KOM) 5. Request to exit (REX) via hub/handle(s) 6. LED indication	
ENVIROMENTAL	-20 to +60 degrees C	
DOOR THICKNESS	32 – 50mm	
BACKSET	60mm Optional: 70mm, 89mm and 127mm	
CABLING	1.6m cable with 9 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 must be wired in series

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)

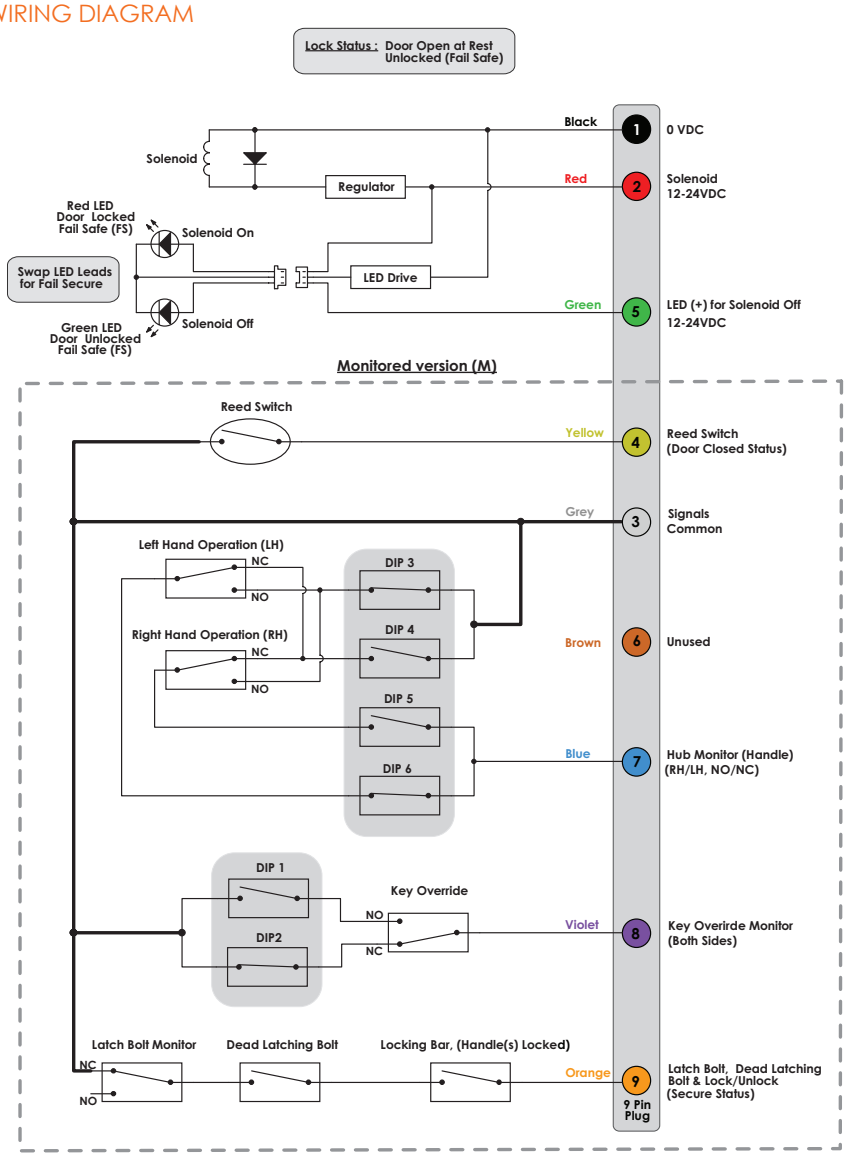
Lock Secure Status/ Key Override Monitor
Microswitch max. rating 500mA@30VDC

Door Status Monitor
Magnetic Reed Switch 100mA operating

Plug arrangement
9 pin plug with 1.6m cable

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

WIRING DIAGRAM



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ON OUR PLANET

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