

TECHNICAL DATA SHEET

FES20M / FES20 ELECTRIC DOOR STRIKES

Fire tested up to 4 hours fire resistance rating to both A.S. and B.S. standards, the FES20M and FES20 electric door strike models are high security locking devices manufactured totally from stainless steel. The devices can be inter-phased with building management and access control systems to control access and egress to hinged doors including fire rated models.

FEATURES

- ◆ 5 year guarantee
- ◆ Simple power to lock/power to release interchange, no loose pins
- ◆ Pre drilled for extension lips
- ◆ Mounting kit included
- ◆ Superior holding strength
- ◆ 4 hour fire rated
- ◆ Accepts 12 to 36vDC
- ◆ Fully monitored (FES20M) including "strike installed within door frame" (anti-tamper)

SPECIFIERS STATEMENT

"The electric door strike must be equal to the FSH model in all respects (nominated FES20M or FES20) be manufactured from stainless steel, accept voltages from 9 to 36vDC and be able to be site interchangeable, "power to lock" & "power to open" without removal of the body cover.

[In addition for FES20M] *The door strike must provide 3 forms of monitoring;*

1. Internal locking mechanism
2. Door Latch/Lock tongue engaged within strike keeper
3. Anti-tamper monitoring i.e. strike installed within door frame

The door strike must be provided with a 5 year guarantee and fire tested to a 4 hour fire resistance rating to both Australian and British Fire Test Standards".



FES20M®

FES20 - identical to the FES20M but without monitoring features

PART No.	FES20M	FES20
FUNCTION	Mortise mount, power to lock/power to release site interchangeable. Input voltage: 12-36vDC	
HOLDING FORCE	Up to 750kgs	
VOLTAGE/CURRENT	12vDC=220mA, 24vDC=120mA, 36vDC=80mA	
APPROVALS	4 hour fire rated to A.S. and B.S. standards and S.C.E.C listed	
MONITORING	Fully monitored; door latch tongue, locking mechanism, strike installed in door frame	Non monitored
SIZE	L= 176 x W= 44.5 x D= 26.5mm	

EXTENSION LIPS

15mm Lip FES20 – EL15
25mm Lip FES20 – EL25
50mm Lip FES20 – EL50
75mm Lip FES20 – EL75



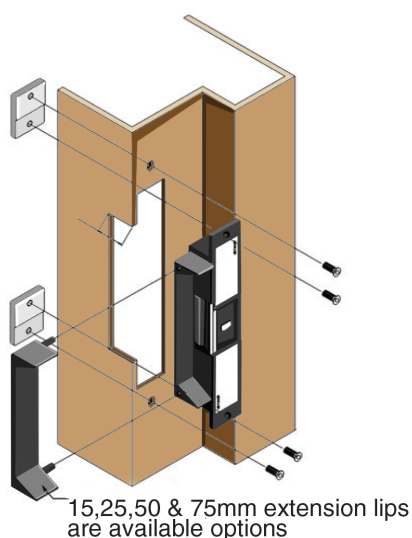
TECHNICAL DATA SHEET

FES20M / FES20 ELECTRIC DOOR STRIKES

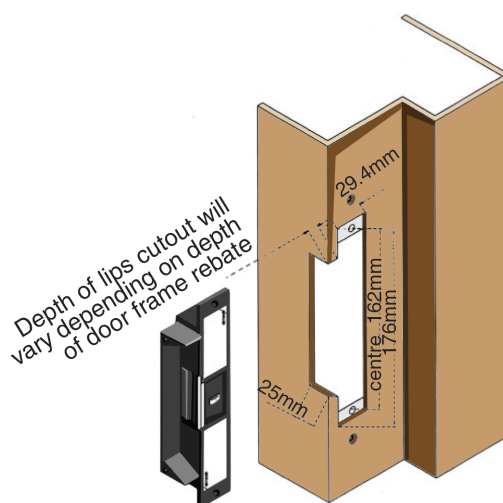


TO RECONFIGURE THE DOOR STRIKE PTL / PTR LOOSEN THE TWO SCREWS, REMOVE THE RUBBER GROMMET AND ROTATE THE "CAPSTAN" WITH THE CAPSTAN TOOL IN THE REQUIRED DIRECTION

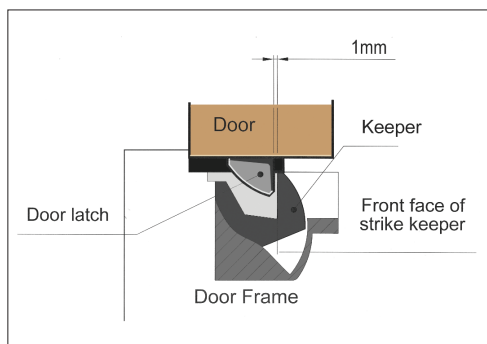
EXTENSION LIP DETAILS



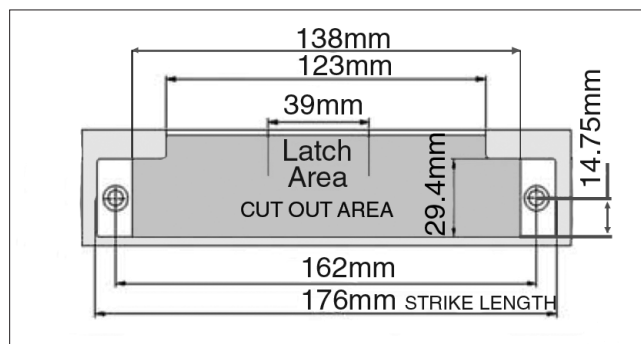
METAL FRAME CUT OUT



MECHANICAL DOOR LOCK CONFIGURATION



CUT OUT DIMENSION



TECHNICAL DATA SHEET

FEM5700 SERIES MAGNETIC LOCK

Fire tested up to 4 hours to both A.S. and B.S. standards. The FEM5700 magnetic locks range from the simple “no frills” non monitored economy line to the fully monitored, Lock Status Sensor (LSS), Door Status Sensor (DSS) and long distance Light Panel (LP) models. The holding force of the 5700 series is up to 580kgs. The device can be inter-phased with building management and access control systems to control access and egress to hinged doors including fire rated models.

FEATURES

- ◆ Power-off to release door/s
- ◆ No moving parts
- ◆ Built-in varistor (MOV) surge protection
- ◆ Satin anodised aluminum housing and zinc plated electromagnetic lock body
- ◆ 5 year warranty
- ◆ CE Approved
- ◆ 4 hour fire tested
- ◆ SCEC endorsed

SPECIFIERS STATEMENT

“The magnetic lock must be equal to FSH model (state model number). Have a holding force of up to 580kgs. Fire tested to a 4 hour fire resistance rating tested to both Australian and British Fire Test Standards. The device must be provided with built in surge protection and accept both 12 and 24vDC. The magnetic lock shall also provide the following monitoring features (if required nominate LSS, DSS and LP). The magnetic lock must be provided with a 5 year warranty.”



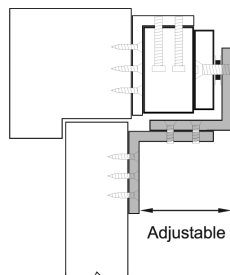
PART No.		
	FEM5700 (Old FEM11)(S) FEM5700D (Old FEM12)(D)	FEM5700M(S) FEM5700DM(D)
HOLDING FORCE	Up to 580kgs (for single magnetic lock)	
VOLTAGE/ CURRENT	Dual Voltage 12/24vDC, 12vDC=490mA 24vDC=245mA	
APPROVALS	4 hour fire rated to A.S. and B.S. standards	
MONITORING	NIL	LP LSS DSS
SIZE	Single door series magnet size: L= 268 x W= 73 x D= 40mm Single door series armature plate size: L= 190 x W= 61 x D= 16mm Single door series DSS-armature plate size: L= 252 x W= 61 x D= 16mm	Double door series surface magnet size: L= 535 x W= 73 x D= 40mm Double door series armature plate size: L= 190 x W= 61 x D= 16mm x 2 pcs Double door series DSS-armature plate size: L= 252 x W= 61 x D= 16mm x 2 pcs

TECHNICAL DATA SHEET

FEM5700 SERIES MAGNETIC LOCK

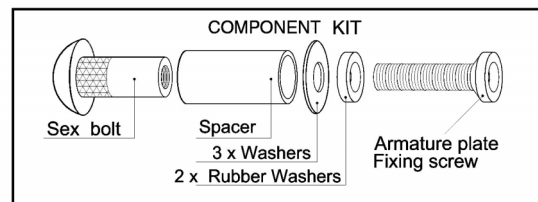
REFER TO PAGE 12 OF THE FSH BROCHURE AND/OR FSH WEBSITE FOR CORRECT PART NUMBERS

TYPICAL FIXING OF MAGNETIC LOCK ON IN-SWINGING DOOR



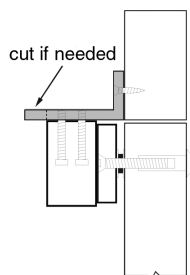
L & Z BRACKET ARRANGEMENT

ARMATURE MOUNTING PLATE DETAIL



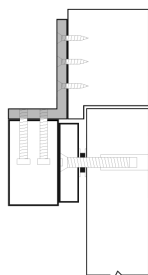
ARMATURE PLATES MUST BE INSTALLED WITH THE COMPONENTS SHOWN ABOVE. THESE COMPONENTS ARE PROVIDED WITH EACH ELECTROMAGNETIC LOCK. (TO AVOID MALFUNCTION OF THE LOCK DO NOT USE PARTS OTHER THAN THOSE PROVIDED ABOVE).

TYPICAL FIXING OF MAGNETIC LOCK ON OUT-SWINGING DOOR



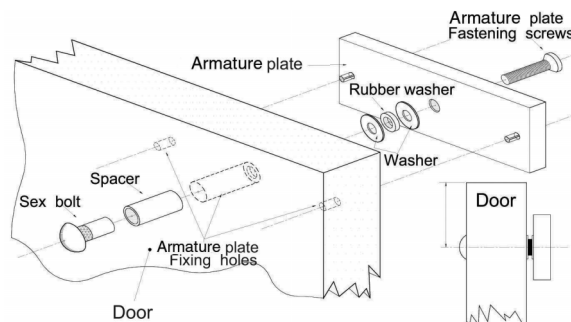
ADJUSTABLE L BRACKET

Adjustable L Bracket is for Flush Transom or Narrow Header.



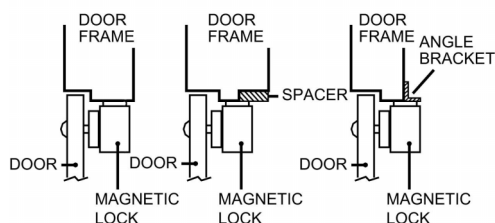
L BRACKET ARRANGEMENT

L Bracket is for Narrow Header.

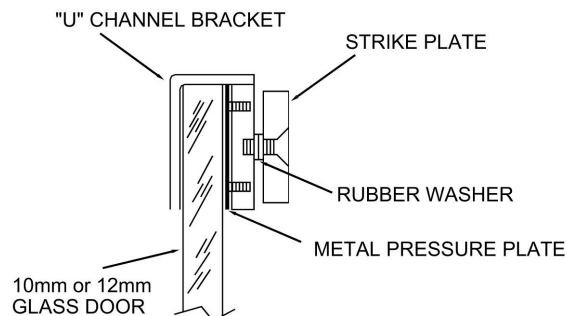


ARMATURE PLATES MUST BE FIXED AS SHOWN ABOVE. DO NOT OVER TIGHTEN THE FIXING SCREW. THE ARMATURE MUST BE ALLOWED TO 'FLOAT' ON THE RUBBER WASHER.

METHODS OF FIXING MAGNETIC LOCKS ON DIFFERENT FRAME PROFILES



FIXING ARMATURE PLATE ON FRAMELESS GLASS DOORS



TECHNICAL DATA SHEET

FEM3500 SERIES MAGNETIC LOCK

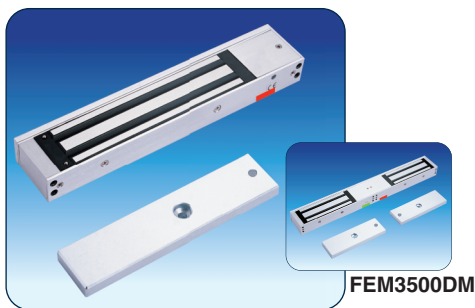
Fire tested up to 4 hours to both A.S. and B.S. standards. The FEM3500 magnetic locks range from the simple “no frills” non monitored economy line to the fully monitored, Lock Status Sensor (LSS), Door Status Sensor (DSS) and long distance Light Panel (LP) models. The holding force of the 3500 series is up to 280kgs and these devices are generally used to secure internal doors only. The devices can be inter-phased with building management and access control systems to control access and egress to hinged doors including fire rated models.

FEATURES

- ◆ Power-off to release door/s
- ◆ No moving parts
- ◆ Built-in varistor (MOV) surge protection
- ◆ Satin anodised aluminum housing and zinc plated electromagnetic lock body
- ◆ 5 year warranty
- ◆ CE Approved
- ◆ 4 hour fire tested

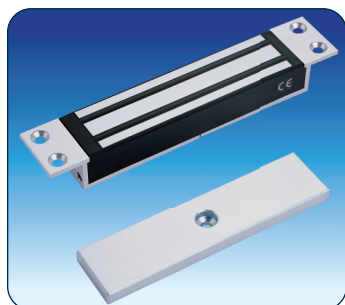
SPECIFIERS STATEMENT

“The magnetic lock must be equal to FSH model (state model number). Have a holding force of up to 280kgs. Fire tested to a 4 hour fire resistance rating tested to both Australian and British Fire Test Standards. The device must be provided with built in surge protection and accept both 12 and 24vDC. The magnetic lock shall also provide the following monitoring features (if required nominate LSS, DSS and LP). The magnetic lock must be provided with a 5 year warranty.”



FEM3500M

FEM3500DM



FEM3500FM (Old FEM2)

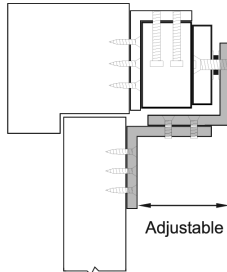
PART No.			
	FEM3500(S) FEM3500D(D)	FEM3500M(S) FEM3500DM(D)	FEM3500FM(Old FEM2)
HOLDING FORCE	Up to 280kgs		
VOLTAGE/CURRENT	Dual Voltage 12/24vDC, 12vDC=490mA 24vDC=245mA		
APPROVALS	4 hour fire rated to A.S. and B.S. standards		
MONITORING	NIL	LP LSS DSS	LSS
SIZE	Single door series magnet size: L= 238 x W= 48 x D= 25mm Single door series armature plate size: L= 185 x W= 38 x D= 12mm Single door series DSS-armature plate size: L= 185 x W= 38 x D= 12mm Double door series surface magnet size: L= 477 x W= 48 x D= 25mm Double door series armature plate size: L= 185 x W= 38 x D= 12mm x 2 pcs Double door series DSS-armature plate size: L= 185 x W= 38 x D= 12mm x 2 pcs		

TECHNICAL DATA SHEET

FEM3500 SERIES MAGNETIC LOCK

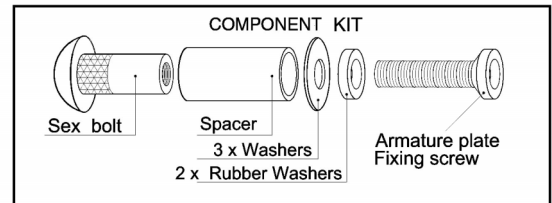
REFER TO PAGE 12 OF THE FSH BROCHURE AND/OR FSH WEBSITE FOR CORRECT PART NUMBERS

TYPICAL FIXING OF MAGNETIC LOCK ON IN-SWINGING DOOR



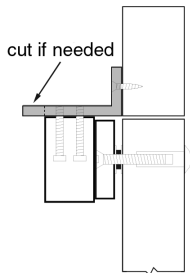
L & Z BRACKET ARRANGEMENT

ARMATURE MOUNTING PLATE DETAIL



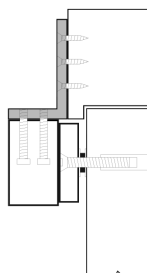
ARMATURE PLATES MUST BE INSTALLED WITH THE COMPONENTS SHOWN ABOVE. THESE COMPONENTS ARE PROVIDED WITH EACH ELECTROMAGNETIC LOCK. (TO AVOID MALFUNCTION OF THE LOCK DO NOT USE PARTS OTHER THAN THOSE PROVIDED ABOVE).

TYPICAL FIXING OF MAGNETIC LOCK ON OUT-SWINGING DOOR



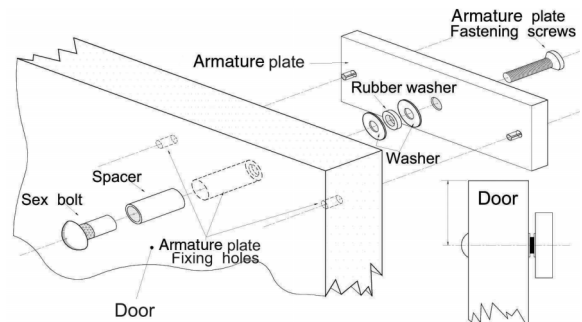
ADJUSTABLE L BRACKET

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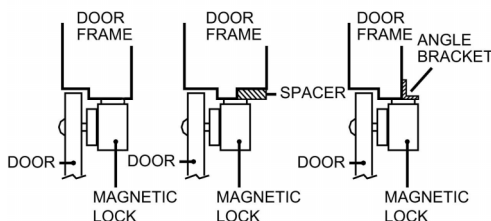
L BRACKET ARRANGEMENT

L Bracket is for Narrow Header.

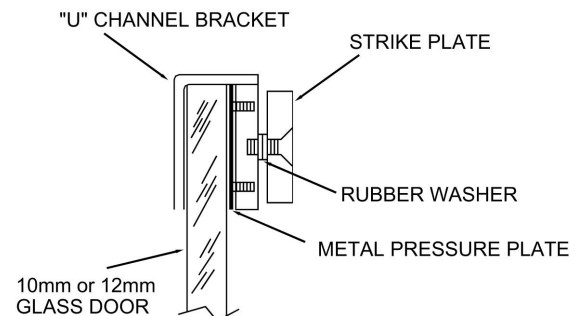


ARMATURE PLATES MUST BE FIXED AS SHOWN ABOVE. DO NOT OVER TIGHTEN THE FIXING SCREW. THE ARMATURE MUST BE ALLOWED TO 'FLOAT' ON THE RUBBER WASHER.

METHODS OF FIXING MAGNETIC LOCKS ON DIFFERENT FRAME PROFILES



FIXING ARMATURE PLATE ON FRAMELESS GLASS DOORS



TECHNICAL DATA SHEET

FES10 ELECTRIC DOOR STRIKE

Fire tested up to 4 hours to both A.S. and B.S. standards the FES10 “ANSI” small footprint electric door strike is a high quality robust device offering an economic security locking solution to hinged doors including fire rated doorsets. The device is “site” interchangeable power to lock (PTL) or power to release (PTR) by simply removing the end “springscrew” and reversing the locking “Barbell®” (no loose pins or springs). The FES10 is dual voltage 12/24vDC and is provided pre-drilled for extension lips. The device can be inter-phased with building management and access control systems to control access and egress to hinged doors including fire rated models.

FEATURES

- ◆ Stainless steel faceplate and keeper
- ◆ Easy installation
- ◆ Low power consumption and low temperature rise
- ◆ Continuous operation
- ◆ Compatible with door latch depth of up to 15mm
- ◆ Weather resistant
- ◆ Superior holding strength
- ◆ 5 year warranty
- ◆ 12 or 24vDC operation

SPECIFIERS STATEMENT

“The electric strike must be equal to the FSH model FES10 in all respects. It must accept voltages of either 12 or 24vDC, be fire tested to 4 hours to both Australian and British test standards, be weather resistant and site interchangeable. Power to lock (PTL) or power to release (PTR). The strike must be provided with a 5 year warranty.”

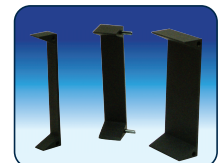


FES10®

PART No.	FES10
FUNCTION	Mortise mount, power to lock/power to release site interchangeable. Input voltage: 12/24vDC
HOLDING FORCE	Up to 680kgs
VOLTAGE/CURRENT	Dual Voltage 12vDC/200mA 24vDC/100mA
APPROVALS	4 hour fire rated to A.S. and B.S. standards
MONITORING	Non monitored
SIZE	L= 125 x W= 42 x D= 35mm

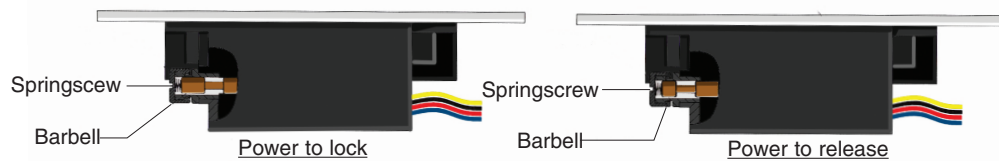
EXTENSION LIPS

15mm Lip FES10 – EL15
 25mm Lip FES10 – EL25
 50mm Lip FES10 – EL50
 75mm Lip FES10 – EL75



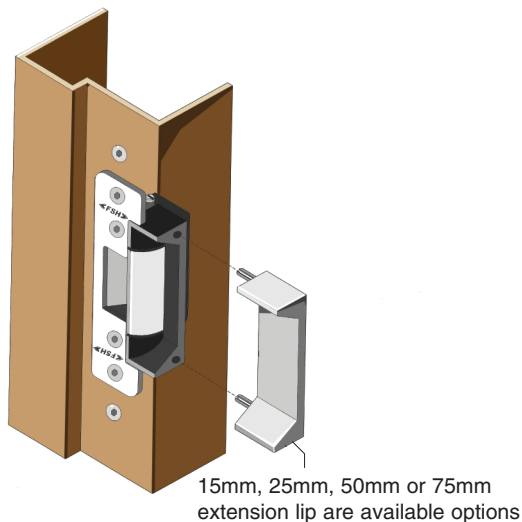
TECHNICAL DATA SHEET

FES10 ELECTRIC DOOR STRIKE

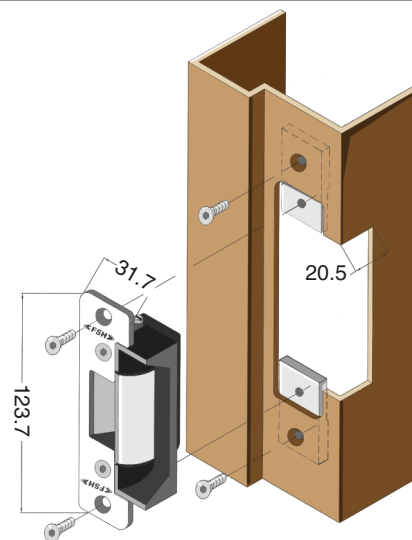


TO RECONFIGURE THE DOOR STRIKE PTL / PTR SIMPLY REMOVE THE SPRINGScrew
AND REVERSE THE BARBELL AS SHOWN, REPLACE THE SPRINGScrew

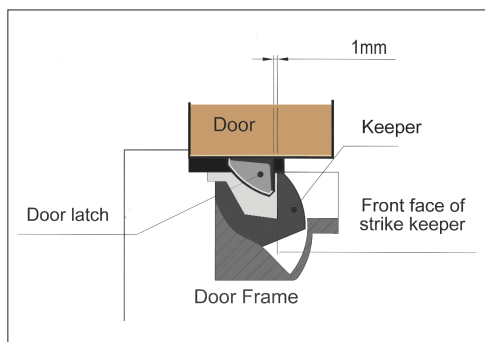
EXTENSION Lip DETAILS



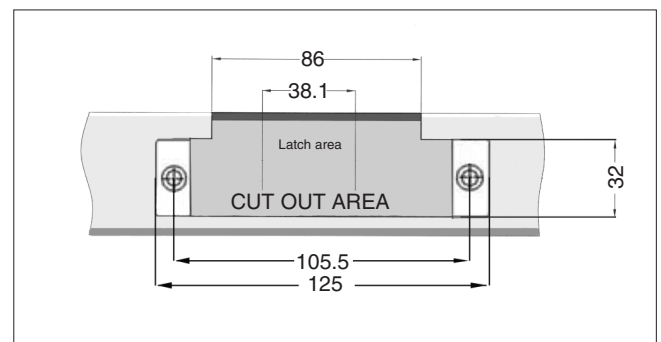
METAL FRAME CUT OUT



MECHANICAL DOOR LOCK CONFIGURATION



CUT OUT DIMENSION



TECHNICAL DATA SHEET

FES15M / FES15 ELECTRIC DOOR STRIKES

Fire tested up to 2 hours to both A.S. and B.S. standards the weather resistant FES15 series door strikes are designed to provide low cost, high quality electric locking solutions for RIM or surface mount mechanical door locks. The device can be inter-phased with building management and access control systems to control access and egress to hinged doors including fire rated models. The FES15M model is supplied with door lock tongue monitoring.

FEATURES

- ◆ 12vDC & 24vDC Dual Voltage
- ◆ Simple power to lock/power to release interchange
- ◆ Weather resistant
- ◆ 5 year warranty
- ◆ Monitoring of door latch 24v/100mA contacts (FES15M)
- ◆ Superior holding strength
- ◆ Surface mount for "RIM" locks
- ◆ Easy installation

SPECIFIERS STATEMENT

"The electric strike must be equal to the FSH model (nominate FES15M for monitored FES15 for non monitored) in all respects it must accept voltages of either 12 or 24vDC, be fire tested to 4 hours to both Australian and British test standards, be weather resistant and site interchangeable, power to lock (P.T.L) or power to release (P.T.R). The device shall be provided with a 5 year warranty."

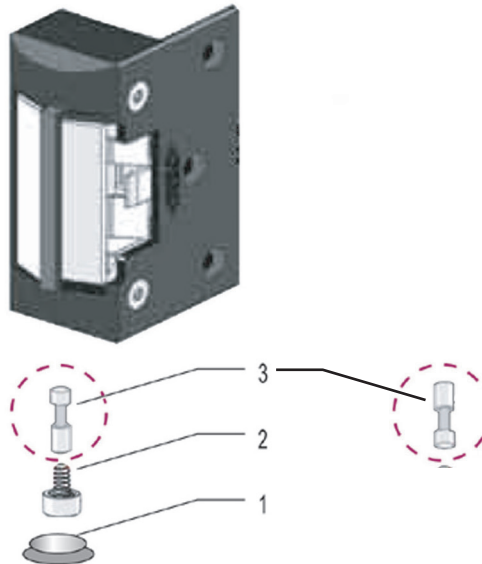


FES15M

PART No.	FES15M	FES15
FUNCTION	Surface mount electric strike for rim latch control	
HOLDING FORCE	Up to 500kgs	
VOLTAGE/CURRENT	Dual voltage 12vDC/200mA 24vDC/100mA	
APPROVALS	2 hour fire rating	
MONITORING	Door lock tongue	Non monitored
SIZE	L= 93.5 x W= 40 x D= 32mm	

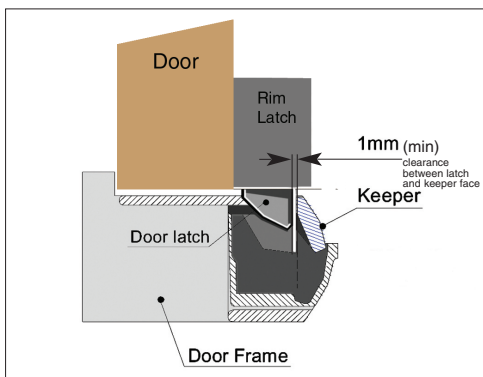
TECHNICAL DATA SHEET

FES15M / FES15 ELECTRIC DOOR STRIKES

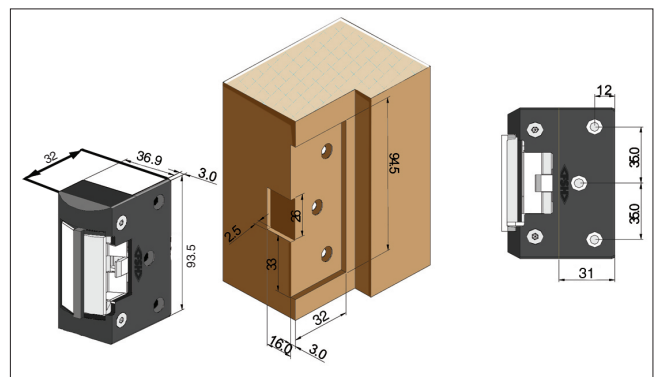


To reconfigure the door strike PTL/PTR Remove the “security cap” “1” to expose the “springscrew” “2”.
Remove the “springscrew” “2”.
Reverse the Barbell “3”. Replace the “springscrew” “2” and refit the “security cap” “1”.

MECHANICAL DOOR LOCK CONFIGURATION



CUT OUT DIMENSION



TECHNICAL DATA SHEET

M.E.M. SERIES MECHANICAL ELECTRO MAGNETIC LOCKS

The recently developed and patented slimline M.E.M. (mechanical electro magnet) lock has been designed to replace a standard magnetic locks in situations where door height or narrow profile door frames create installation restrictions. The M.E.M incorporates both magnetic and mechanical design principles to achieve a holding force of up to 390kg for MEM2480 and 680kg for the MEM3100 and MEM3180. The device also provides full monitoring, LSS, DSS and early warning security alarm indication. The device accepts voltages from 12 to 24vDC. The devices can be inter-phased with building management and access control systems to control access and egress to hinged doors including fire rated models.

FEATURES

- ◆ Compact size
- ◆ High holding force
- ◆ Dual voltage
- ◆ Simple installation
- ◆ Full monitoring - door and device
- ◆ Low power consumption
- ◆ Early warning feature

SPECIFIERS STATEMENT

"The mechanical electro magnet must be equal to the FSH model (state model number). It must be 4 hour fire rated to both Australian and British test standards, provide early warning, lock status and door status sensing. The device must be capable of accepting either 12 or 24vDC. The MEM device must be provided with a 2 year warranty"



MEM3100®



MEM3180®

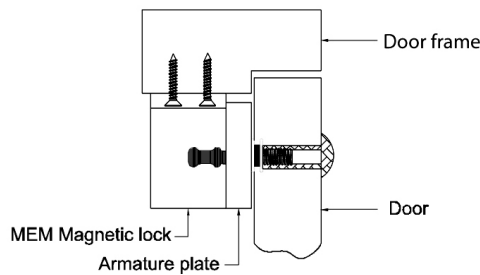
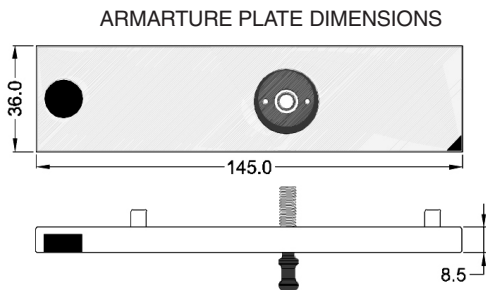
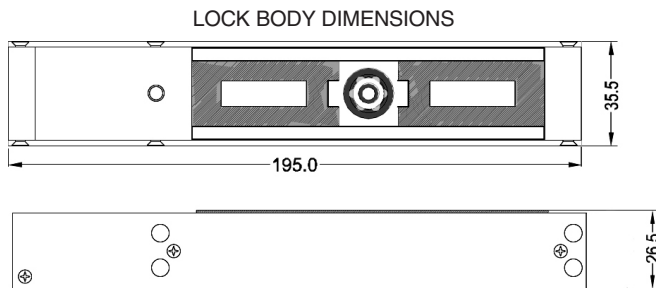
PART No.	MEM3100	MEM3180	MEM2480
FUNCTION	Surface Mount Mechanical Electromagnetic Lock	Flush Mount Mechanical Electromagnetic Lock	
HOLDING FORCE	Up to 680kgs		Up to 390kgs
VOLTAGE/CURRENT	Dual voltage 12v/24vDC 12vDC=200mA 24vDC=100mA		
APPROVALS	4 hour fire rated to A.S. and B.S. standards		
MONITORING	EW LSS DSS		
SIZE	L= 195mm W= 35.5mm D= 26.5mm	L= 145mm W= 24mm D= 26.5mm	L= 145mm W= 24mm D= 29mm

TECHNICAL DATA SHEET

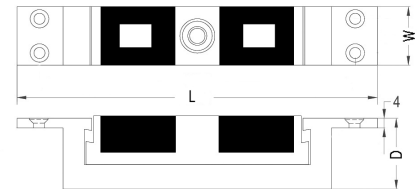
M.E.M. SERIES MECHANICAL ELECTRO MAGNETIC LOCKS

INSTALLATION DETAIL SURFACE MOUNT MEM3100

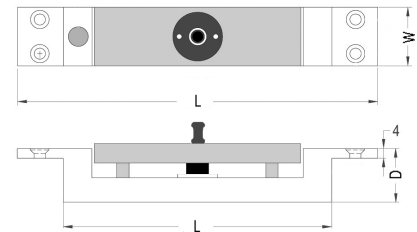
INSTALLATION DETAIL FLUSH MOUNT MEM3180 & 2480



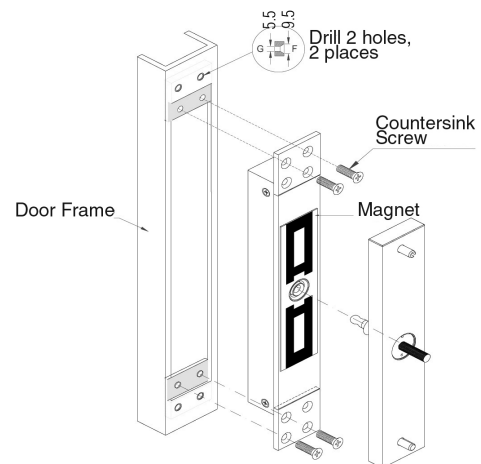
LOCK BODY DIMENSIONS



ARMATURE PLATE DIMENSIONS



PART NO.	LENGTH (L)	WIDTH (W)	DEPTH(D)
3180 BODY	145mm	24mm	26.5mm
3180 ARMATURE	145mm	24mm	22mm
2480 BODY	108mm	24mm	29mm
2480 ARMATURE	108mm	24mm	22mm



TECHNICAL DATA SHEET

FES4012 GLASS DOOR STRIKE

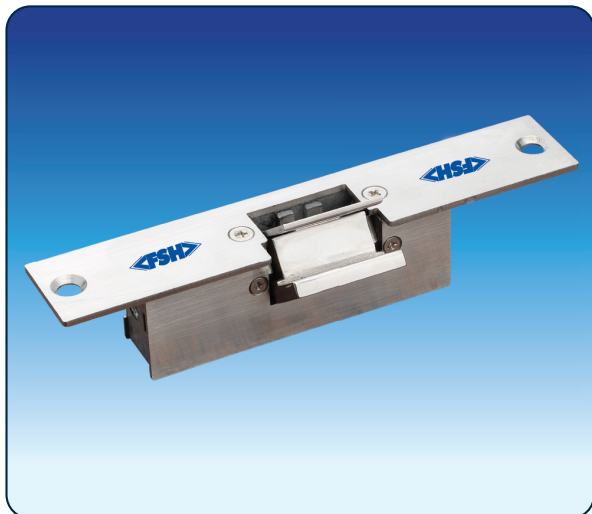
The mortise mount electric glass door strikes are designed for locking 90° swing 10-12mm thick hinged glass doors. The devices can be inter-phased with building management and access control systems to control access and egress to hinged door sets including fire rated models. The devices can be inter-phased with building management and access control systems to control access and egress to hinged glass doors.

FEATURES

- ◆ Power to lock
- ◆ 304 stainless steel faceplate, sideplate and keeper
- ◆ Easy installation
- ◆ Low power consumption and low temperature
- ◆ Continuous operation
- ◆ Used on 10-12mm thick glass doors

SPECIFIERS STATEMENT

"The electric door strike must be equal in all respect to FSH model FES4012. It shall have a holding force of up to 300kgs. The faceplate, sideplate and keeper be manufactured from 304 stainless steel and be provided with a 2 year warranty."



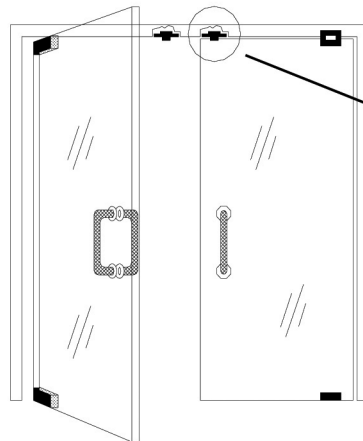
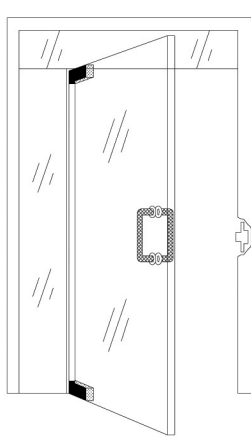
FES4012

PART No.	FES4012
FUNCTION	Mortise mount, power to lock glass door electric strike
HOLDING FORCE	Up to 300kgs
VOLTAGE/CURRENT	12vDC/250mA
MONITORING	Non monitored
SIZE	L= 148.7 x W= 27.6 x D= 28mm

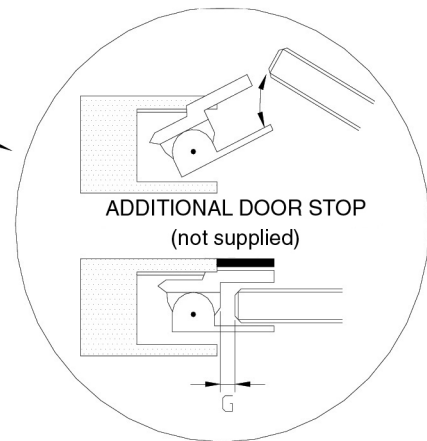
TECHNICAL DATA SHEET

FES4012 GLASS DOOR STRIKE

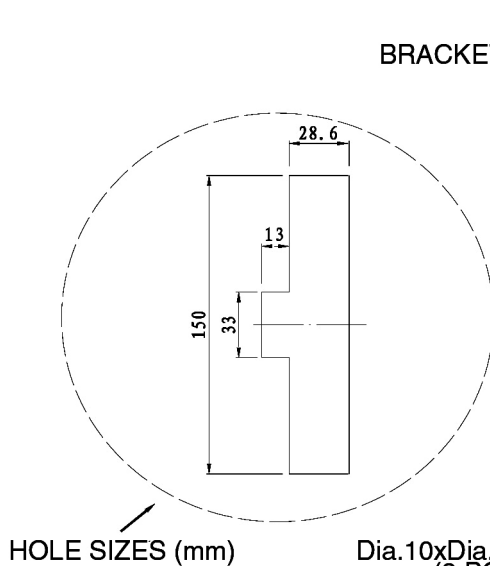
TYPICAL INSTALLATION DETAIL



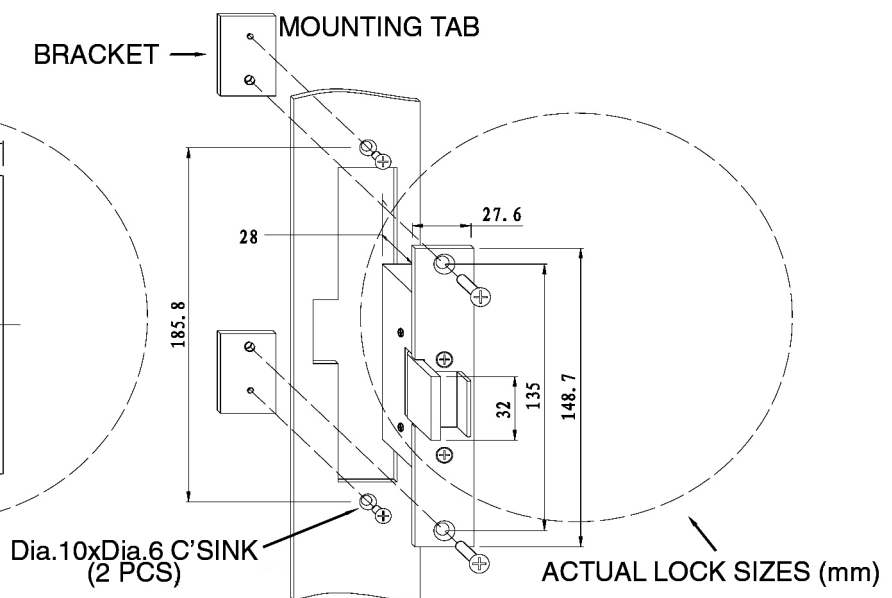
DOOR STRIKE CONFIGURATION



CUT OUT DIMENSIONS



METAL DOOR FRAME INSTALLATION



TECHNICAL DATA SHEET

HBL SERIES HEAVY DUTY HIGH SECURITY LOCK BOLT

The HBL series of devices are low profile, heavy duty high security electric locking mechanisms suitable for both hinged and sliding doors. They have a holding force of up to 800kgs. The devices internal CPU processing module monitors the accurate alignment of the keeper plate and timely throw of the lock bolt. Once the lock bolt is engaged within it's keeper a hardened "locking pin" connects within the lock bolt, overcoming the possibility of forcing back the lock bolt. If attempts are made to force the bolt, the device will indicate an alarm condition. The HBL1280FD is identical to the HBL1280 except for the "locking pin" function. The FD model is suitable for fire door applications, i.e. self latching, the "locking pin" function is omitted from this model, however the device will still alarm if attempts are made to push back the lock bolt. Models 1282 and 1283 are also provided with a high security manual release key cylinder for use in event of power outage. The devices can be inter-phased with building management and access control systems to control access and egress to hinged and sliding doors including fire rated models.

FEATURES

- ◆Extremely high holding force
- ◆Fire tested 4 hours
- ◆Suitable for hinged and sliding doors
- ◆Special model for fire door applications
- ◆Door status and anti tamper monitoring
- ◆5 year warranty

SPECIFIERS STATEMENT

"The electric lock must be equal in all respects to FSH model (nominate model no.). Be manufactured from stainless steel and have a holding force of up to 800kgs. It shall be provided with both door status and anti tamper monitoring, it must be 4 hour fire rated to both Australian and British test standards."



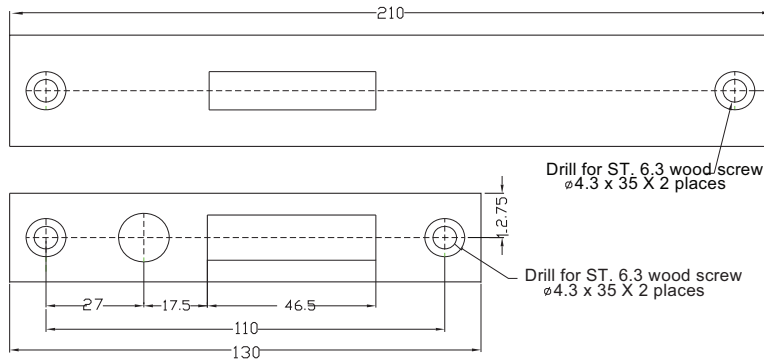
HBL1280® HBL1280FD® HBL1281® HBL1282® HBL1283®

PART No.	HBL1280	HBL1280FD	HBL1281	HBL1282	HBL1283
FUNCTION	Power To Lock (P.T.L.)	P.T.L. fire door application	Power To Release (P.T.R.)	P.T.L. with manual release key	P.T.R. with manual release key
HOLDING FORCE	Up to 800kgs				
VOLTAGE/CURRENT	Dual Voltage (Dip switch) 12vDC=900mA in-rush; 300mA holding 24vDC=500mA in-rush; 150mA holding				
APPROVALS	4 hour fire rated to A.S. and B.S. standards				
MONITORING	Door status signal Tamper alarm signal				
SIZE	Lock: L= 209 x W= 32 x D= 45mm Face plate: L= 130 x W= 26 x D= 5mm				

TECHNICAL DATA SHEET

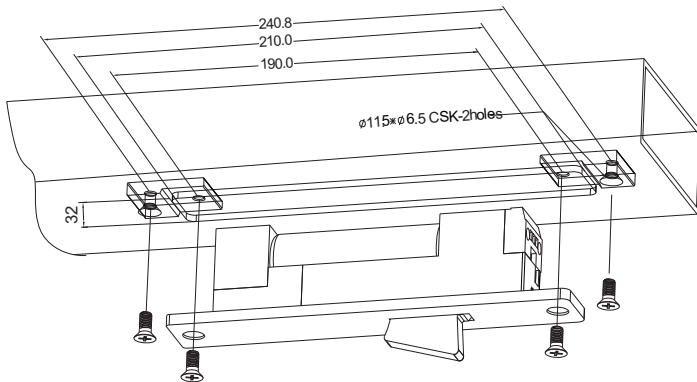
HBL SERIES HEAVY DUTY HIGH SECURITY LOCK BOLT

INSTALLATION DETAIL AND DOOR FRAME CUT-OUT DIMENSION

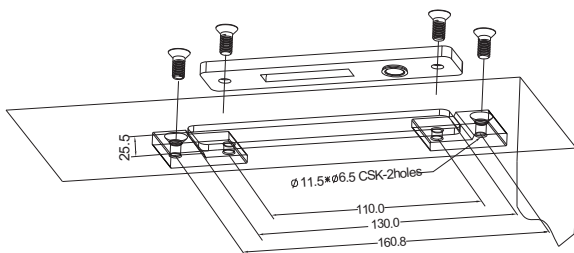


INSTALLATION DETAIL FOR METAL DOOR AND FRAME

LOCK FIXING DETAIL

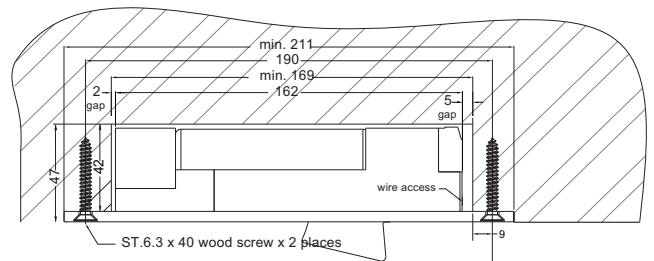


ARMATURE PLATE FIXING DETAIL

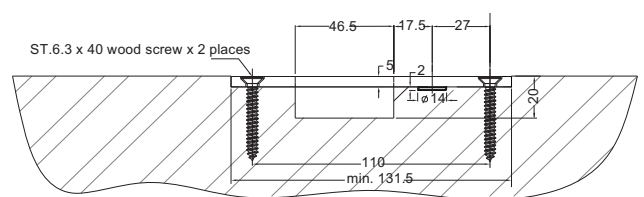


INSTALLATION DETAIL FOR TIMBER DOOR FRAME

LOCK FIXING DETAIL



ARMATURE PLATE FIXING DETAIL



TECHNICAL DATA SHEET

DB SERIES, FLUSH MOUNT DROP BOLTS

The FSH series of flush bolts are suitable for installation on all types of hinged doors including fully glazed. They have built in intelligence to prevent locking if the doors are not correctly aligned with the keeper plate. The DB1260 model is slimline, fire tested for 4 hours to both Australian and British test standards and can be supplied either power to lock (PTL) or power to release (PTR). The devices can be inter-phased with building management and access control systems to control access and egress to hinged doors including fire rated models (DB1260 models only).

FEATURES

- ◆ Internal IC circuits to protect drop bolt pin from damage
- ◆ Auto lock function
- ◆ Built-in metal oxide varistor (MOV) for surge protection
- ◆ Time delay setting at 0/3/6/10 secs
- ◆ Low power consumption
- ◆ Anodised aluminum body case
- ◆ 1 year warranty
- ◆ Power to lock (PTL) Power to release (PTR)
- ◆ Fire tested 4 hours (DB1260)

SPECIFIERS STATEMENT

"The flush drop bolt must be equal in all respects to FSH model (state model number). It shall be provided with internal IC circuits to prevent damage and false operation and contain in-built time delay switch. DB1260, the drop bolt must be supplied. Nominate: power to lock (PTL) or power to release (PTR). The drop bolt must be provided with a 1 year warranty"



DB1260PTO (power to release)
DB1260PTL (power to lock)



DB1200MLDRET

PART No.	DB1260PTO (power to release)	DB1260PTL (power to lock)	DB1200MLDRET
FUNCTION	Slimline mortise mount auto flush bolt		Mortise mount auto flush bolt, fully monitored
HOLDING FORCE	Up to 300kgs		
VOLTAGE/CURRENT	12vDC 1.15A(in-rush) 250mA holding		12/24vDC 12v 900mA(in-rush) 210mA holding 24v 450mA(in-rush) 120mA holding
APPROVALS	4 hour fire rated to A.S. and B.S. standards		
MONITORING	Door sensor Remote release Bi-coloured LED Audible tone		Lock sensor Door sensor Remote release Bi-coloured LED Audible tone
SIZE	L= 210 x W= 25 x D= 35mm		L= 203 x W= 38 x D= 43mm

TECHNICAL DATA SHEET

FSH2500 MORTISE MOUNT SHEAR LOCK

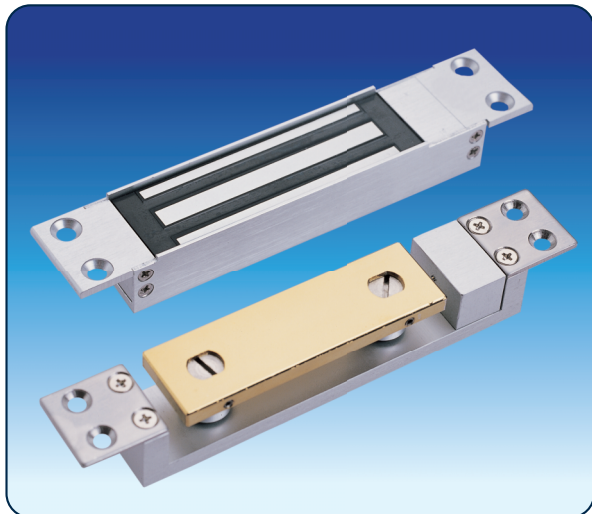
FSH shear locks are an evolutionary product based on the proven EML concept, designed for applications where the door swings through a 180 degree arc. Whilst a standard EML provides a tensile force, a shear lock differs as it resists a shear or sliding force. When the shear lock detects the door in the closed position, the magnet “sucks” the armature plate up by up to 5mm and traps the armature in the magnet face. Despite the small size of the FSH shear lock, it is capable of resisting up to up to 500kgs of shear load. The shear lock accepts voltages from 12 to 24vDC. The devices can be inter-phased with building management and access control systems to control access and egress to hinged doors.

FEATURES

- ◆ Up to 500kgs holding force
- ◆ Lock status mounting
- ◆ Easy installation
- ◆ 2 year warranty
- ◆ Low holding current
- ◆ 12 or 24vDC

SPECIFIERS STATEMENT

“The mortise mount shear lock must be equal to FSH model FSH2500 in all respects, capable of accepting 12 or 24vDC and provide lock status monitoring. The device must be provided with a 2 year warranty.”



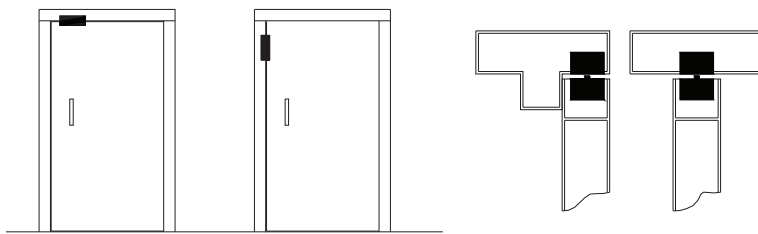
FSH2500

PART No.	FSH2500
HOLDING FORCE	Up to 500kgs holding force
VOLTAGE/CURRENT	At 12vDC x 1A(in-rush) 200mA(normal) At 24vDC x 0.5A “100mA”
MONITORING	Lock Status Sensor LED indicator
SIZE	Shear Locks series magnet size: L= 166 x W= 31 x D= 21mm Shear Locks series armature plate size: L= 166 x W= 26 x D= 31mm

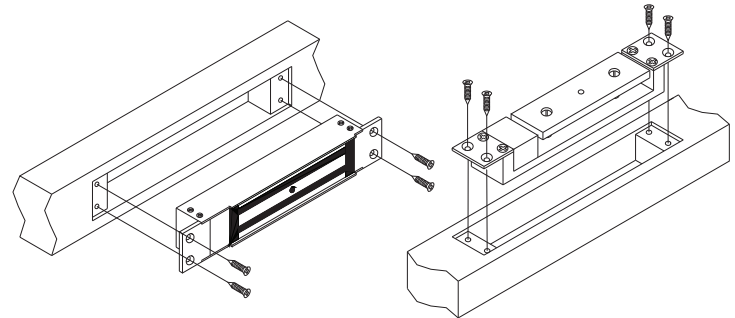
TECHNICAL DATA SHEET

FSH2500 MORTISE MOUNT SHEAR LOCK

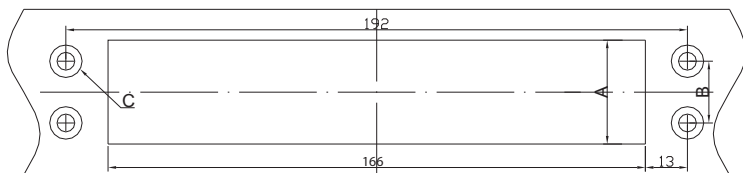
TYPICAL DOOR CONFIGURATION



TYPICAL INSTALLATION TIMBER DOOR & FRAME



CUT OUT DIMENSIONS



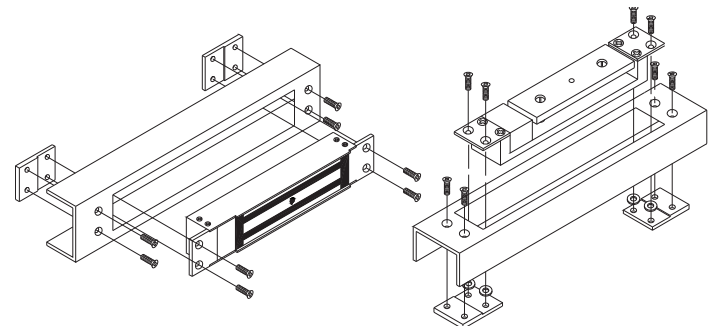
A= 32mm (Lock Body)

A= 27mm (Armature Plate)

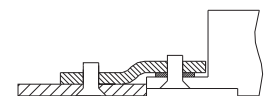
B= 19mm (Lock Body)

B= 14mm (Armature Plate)

TYPICAL INSTALLATION ON METAL DOOR & FRAME



Mounting on metallic door



Mounting on aluminum or PVC door

TECHNICAL DATA SHEET

EW SERIES RETAIL LOSS PREVENTION MAGNETIC LOCKING DEVICES

The Early Warning (EW) series of magnetic locks are a patented and unique product line in the FSH range. The early warning feature is initiated by an internal double micro switch arrangement operating in two stages. Stage 1. is triggered on initial pressure being applied to the particular door fitted with the device in the form of a local audible alarm, if continued pressure is applied to the door for over 15sec. Stage 2. full alarm is triggered both locally and remotely, this feature can also initiate CCTV recording of the incident for future reference. At this time power is removed from the magnetic lock releasing the door. The devices can be inter-phased with building management and access control systems to control access and egress to hinged doors including fire rated models.

FEATURES

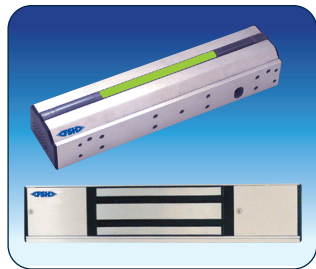
- ◆ Early warning alarms
- ◆ Time delay function
- ◆ In-built CCTV (models 5700/CV+CS)
- ◆ Fire tested 4 hours
- ◆ Power off to release door/s
- ◆ CE Approved
- ◆ In-built microswitch monitoring

SPECIFIERS STATEMENT

"The early warning magnetic locking device must be equal to FSH model (state model number). Have a holding force of up to 580kgs. Fire tested to a 4 hour fire resistance to both Australian and British Fire Test Standards. The device must be provided with built in surge protection and accept both 12 and 24vDC. The magnetic lock shall also provide the following monitoring features (if required nominate LSS, DSS and Strip Back Light). The magnetic lock must be provided with a 5 year warranty. The magnetic lock must also contain an in-built camera to record unauthorised door opening attempts."



EW3500



EW5700CS

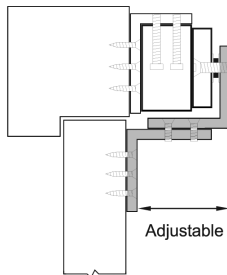
PART No.				
	EW5700S	EW5700CS	EW5700CV	EW3500
HOLDING FORCE	Up to 530kgs			Up to 280kgs
VOLTAGE/CURRENT	Dual Voltage 12/24vDC, 12vDC=520mA 24vDC=250mA			Dual Voltage 12/24vDC, 12vDC=550mA 24vDC=270mA
MONITORING	15 second time delay Strip Back Light Panel Lock alarm Dry contact switching	15 second time delay Strip Back Light Panel Lock alarm Dry contact switching C.C.T.V monitoring	15 second time delay Strip Back Light Panel Lock alarm Dry contact switching C.C.T.V monitoring In-built voice over warning	15 second time delay Light panel Lock alarm Dry contact switching
APPROVALS	4 hour fire rated to A.S. and B.S. standards			4 hour fire rated to A.S. and B.S. standards
SIZE	Magnet size: L= 299 x W= 74 x D= 54mm	Magnet size: L= 354 x W= 74 x D= 54mm	Magnet size: L= 354 x W= 74 x D= 54mm	Magnet size: L= 268 x W= 48 x D= 30mm

TECHNICAL DATA SHEET

EW SERIES RETAIL LOSS PREVENTION MAGNETIC LOCKING DEVICES

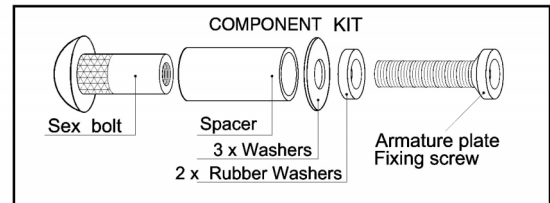
REFER TO PAGE 12 OF THE FSH BROCHURE AND/OR FSH WEBSITE FOR CORRECT PART NUMBERS

TYPICAL FIXING OF MAGNETIC LOCK ON IN-SWINGING DOOR



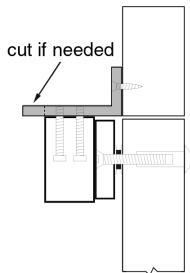
L & Z BRACKET ARRANGEMENT

ARMATURE MOUNTING PLATE DETAIL



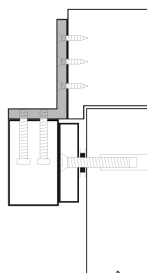
ARMATURE PLATES MUST BE INSTALLED WITH THE COMPONENTS SHOWN ABOVE. THESE COMPONENTS ARE PROVIDED WITH EACH ELECTROMAGNETIC LOCK. (TO AVOID MALFUNCTION OF THE LOCK DO NOT USE PARTS OTHER THAN THOSE PROVIDED ABOVE).

TYPICAL FIXING OF MAGNETIC LOCK ON OUT-SWINGING DOOR



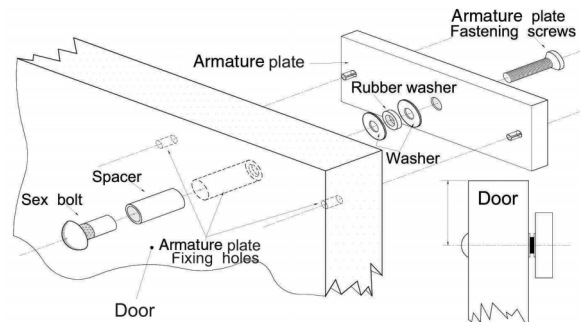
ADJUSTABLE L BRACKET

Adjustable L Bracket is for Flush Transom or Narrow Header.



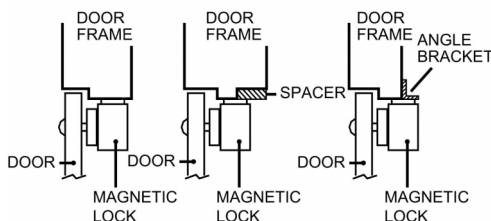
L BRACKET ARRANGEMENT

L Bracket is for Narrow Header.

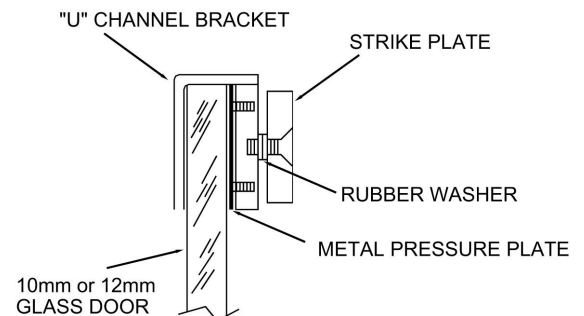


ARMATURE PLATES MUST BE FIXED AS SHOWN ABOVE. DO NOT OVER TIGHTEN THE FIXING SCREW. THE ARMATURE MUST BE ALLOWED TO 'FLOAT' ON THE RUBBER WASHER.

METHODS OF FIXING MAGNETIC LOCKS ON DIFFERENT FRAME PROFILES



FIXING ARMATURE PLATE ON FRAMELESS GLASS DOORS



TECHNICAL DATA SHEET

WEATHER RESISTANT MAGNETIC LOCKS

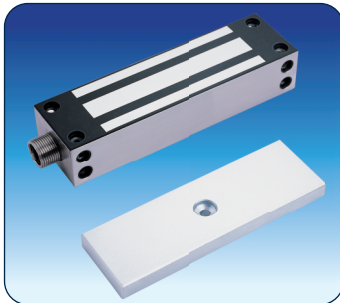
The FSH series of weather resistant magnetic locks are suitable for both hinged and sliding external doors. They are provided with a dual fixing arrangement and come with a 5 year warranty. The FEM5000G and 4700 models are provided with lock status sensor monitoring. The devices can be inter-phased with building management and access control systems to control access and egress to hinged doors.

FEATURES

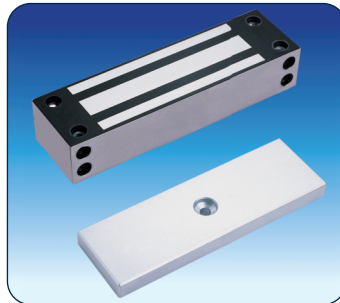
- ◆ Power-off to release door
- ◆ Unique mounting design
- ◆ Stainless 304 steel body housing
- ◆ Built-in varistor (MOV) surge protection
- ◆ Weather resistant
- ◆ 5 year warranty

SPECIFIERS STATEMENT

"Supply and install to the nominated doors. F.S.H. weather resistant surface mount magnetic lock (nominate part numbers) or equal, the lock must have a stainless steel body housing, built in varistor. The device shall be provided with 5 year warranty."



FEM5000G



FEM4700FS



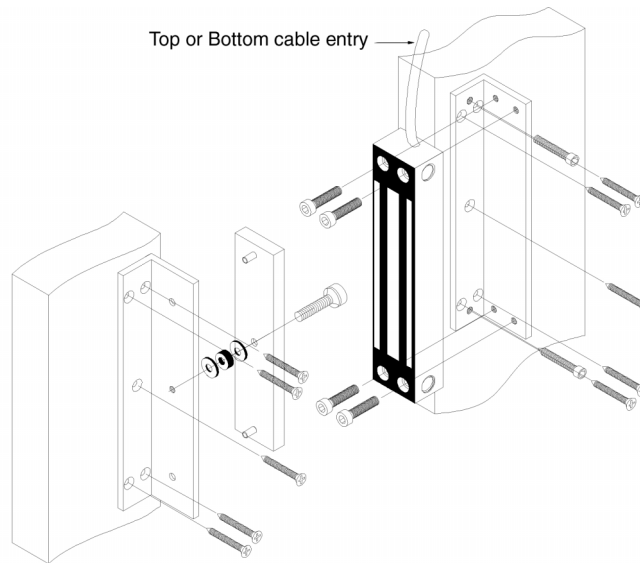
FEM4500FS

PART No.			
	FEM5000G	FEM4700FS	FEM4500FS
HOLDING FORCE	Up to 630kgs	Up to 380kgs	Up to 200kgs
VOLTAGE/ CURRENT	Dual Voltage 12/24vDC, 12vDC=480mA 24vDC=240mA	Dual Voltage 12/24vDC, 12vDC=400mA 24vDC=200mA	Dual Voltage 12/24vDC, 12vDC=360mA 24vDC=180mA
MONITORING	LSS	LSS	NIL
SIZE	Magnet size: L= 225 x W= 63 x D= 44mm Armature plate size: L= 190 x W= 61 x D= 16mm	Magnet size: L= 220 x W= 47 x D= 30.5mm Armature plate size: L= 185 x W= 42 x D= 12mm	Magnet size: L= 162 x W= 26 x D= 31mm Armature plate size: L= 130 x W= 30 x D= 8.7mm

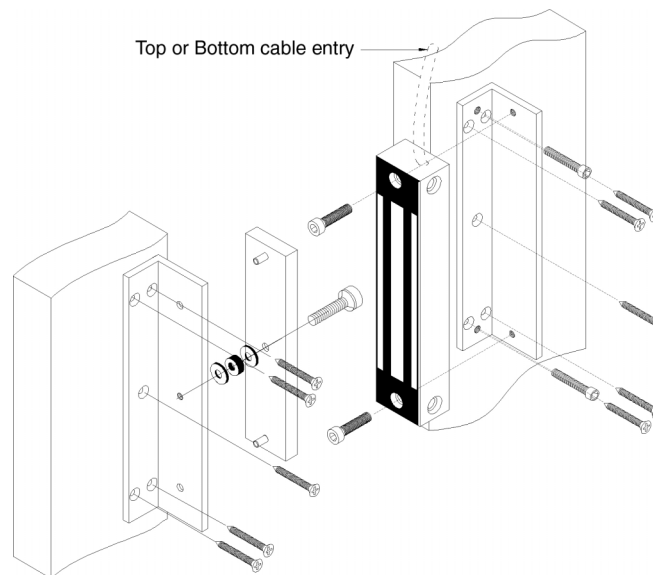
TECHNICAL DATA SHEET

WEATHER RESISTANT MAGNETIC LOCKS

FEM5000G AND FEM4700FS FIXING DETAIL



FEM4500FS FIXING DETAIL



TECHNICAL DATA SHEET

HIGH SECURITY-TAMPER RESISTANT MAGNETIC LOCK

FSH High Security EMLs incorporate coded electronic armature plates unique to each magnet. In conventional EMLs, the armature plates are all identical to a spare or false plate that may be attached to the magnet on an open door. This gives a false secure indication to the access control system. The HS EMLs will detect an incorrect plate and signal an alarm. Conventional hall-effect monitoring is also retained. Government approved, fire tested and including all features of standard FSH EMLs. Non bonded "Illegal" armature plate alarm; LED indication and relay output; Eliminates the need for balanced reed switches; Dual voltage selectable 12 or 24vDC; Lock Sensor Status output - LED indication and relay output; Alarm time setting - 15/30/60 seconds, or continual. The device can be inter-phased with building management and access control systems to control access and egress to hinged doors including fire rated models.

FEATURES

- ◆ Power-off to release door/s
- ◆ Satin anodised aluminum housing and zinc plated electromagnetic lock body
- ◆ CE Approved
- ◆ No moving parts
- ◆ 5 year warranty
- ◆ 4 hour fire tested
- ◆ Built-in varistor (MOV) surge protection
- ◆ SCEC endorsed

SPECIFIERS STATEMENT

"The high security tamper resistant magnetic lock must be equal in all aspects to FSH model (state model number). It must be fire tested to a 4 hour fire resistance rating to both British and Australian standards. It shall have built in surge protection be SCEC listed and must be provided with a 5 year warranty..."



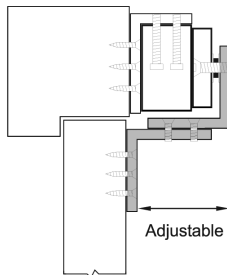
PART No.		
FEM4000HST FEM4000DHST		FEM2600HS
HOLDING FORCE	Up to 580kgs	Up to 280kgs
VOLTAGE/ CURRENT	Dual Voltage 12/24vDC, 12vDC=490mA 24vDC=245mA	Dual Voltage 12/24vDC, 12vDC=490mA 24vDC=245mA
APPROVALS	4 hour fire rated to A.S. and B.S. standards S.C.E.C listed	4 hour fire rated to A.S. and B.S. standards
MONITORING	LSS Internal CPU register armature plate (Registered to match only that ONE EM lock) With security alarm sensor/Time delay setting from 0-60 secs	
SIZE	Single door series magnet size: L= 268 x W= 73 x D= 40mm Single door series armature plate size: L= 190 x W= 61 x D= 16mm Double door series Surface magnet size: L= 535 x W= 73 x D= 40mm Double door series armature plate size: L= 190 x W= 61 x D= 16mm x 2 pcs	Single door series magnet size: L= 268 x W= 48 x D= 25mm Single door series armature plate size: L= 185 x W= 38 x D= 12mm

TECHNICAL DATA SHEET

HIGH SECURITY-TAMPER RESISTANT MAGNETIC LOCK

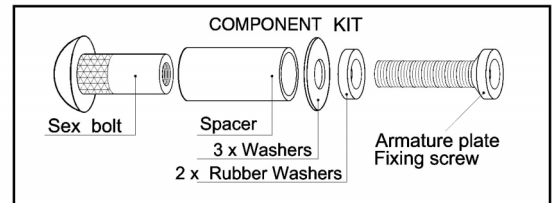
REFER TO PAGE 12 OF THE FSH BROCHURE AND/OR FSH WEBSITE FOR CORRECT PART NUMBERS

TYPICAL FIXING OF MAGNETIC LOCK ON IN-SWINGING DOOR



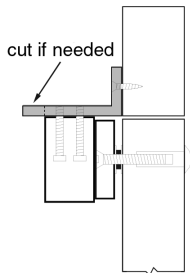
L & Z BRACKET ARRANGEMENT

ARMATURE MOUNTING PLATE DETAIL



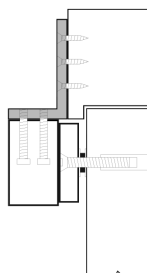
ARMATURE PLATES MUST BE INSTALLED WITH THE COMPONENTS SHOWN ABOVE. THESE COMPONENTS ARE PROVIDED WITH EACH ELECTROMAGNETIC LOCK. (TO AVOID MALFUNCTION OF THE LOCK DO NOT USE PARTS OTHER THAN THOSE PROVIDED ABOVE).

TYPICAL FIXING OF MAGNETIC LOCK ON OUT-SWINGING DOOR



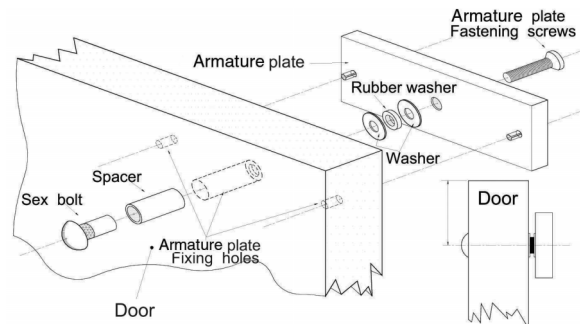
ADJUSTABLE L BRACKET

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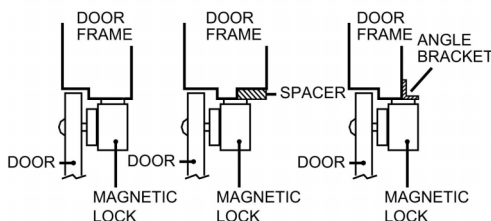
L BRACKET ARRANGEMENT

L Bracket is for Narrow Header.

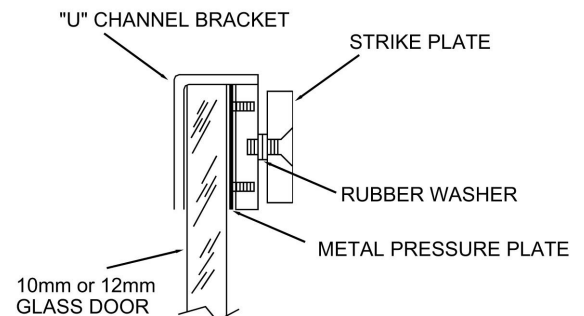


ARMATURE PLATES MUST BE FIXED AS SHOWN ABOVE. DO NOT OVER TIGHTEN THE FIXING SCREW. THE ARMATURE MUST BE ALLOWED TO 'FLOAT' ON THE RUBBER WASHER.

METHODS OF FIXING MAGNETIC LOCKS ON DIFFERENT FRAME PROFILES



FIXING ARMATURE PLATE ON FRAMELESS GLASS DOORS



TECHNICAL DATA SHEET

FES6012 “DOMESTIC” ELECTRIC DOOR STRIKE

The FES6012 “no frills” range of door strikes are designed specifically for domestic type installations where high holding force and high degrees of security are not of major concern. The strikes are supplied only in 12vDC configurations and can provide monitoring of the latch bolt and locking function. Change over from power to lock (PTL) to power to release (PTR) is carried out in an identical manner to that of the FES10 strike, “Barbell®” reversal.

FEATURES

- ◆ Domestic type door strike
- ◆ Easy installation compact size
- ◆ Continuous operation
- ◆ High quality
- ◆ Fully monitored
- ◆ 12 volt only device

SPECIFIERS STATEMENT

“Supply and install to the nominated doors FES6012 electric strike or equal, the strike must have both door latch and strike locking monitoring and be able to be changed over from power to lock (PTL) to power to release (PTR) at site.”



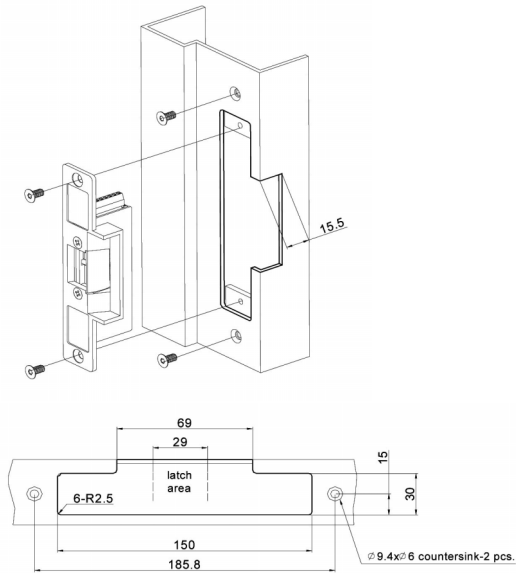
FES6012

PART No.	FES6012
FUNCTION	Mortise mount, power to lock/power to release site interchangeable. Input voltage: 12/24vDC
HOLDING FORCE	Up to 290kgs
VOLTAGE/CURRENT	12vDC/160mA
MONITORING	Fully monitored; door latch tongue, locking mechanism
SIZE	L= 150 x W= 40 x D= 36mm

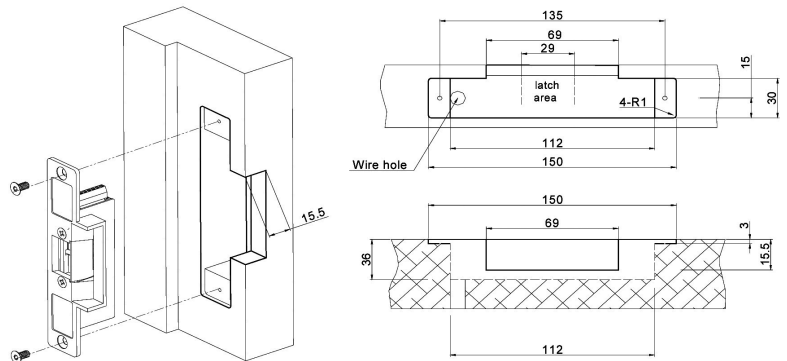
TECHNICAL DATA SHEET

FES6012 "DOMESTIC" ELECTRIC DOOR STRIKE

FIXING AND CUT DETAIL METAL DOOR FRAME



FIXING AND CUT OUT DETAIL TIMBER DOOR FRAME



TO RECONFIGURE DOOR STRIKE POWER TO LOCK (PTL) POWER TO RELEASE (PTR)

- Remove screws ①
- Remove screws ②
- Remove solinoid ③
- Rotate barbell ④
- Replace solinoid ③ and screws ② and ①

