

BF359/3D & BF359/3S Enclosures - Installation Instructions



THIS INSTRUCTION IS FOR EXPERIENCED INSTALLERS AND SYSTEM DESIGNERS ONLY

Product Overview

BF359/3D is a stainless steel, glazed, deep enclosure used to house the SigTEL Master EVC control unit c/w handset (ECU-8).

BF359/3S is a stainless steel, glazed, shallow enclosure used to house various control units including the SigTEL Master EVC control unit (ECU-8NT), SigTEL Slave EVC expansion unit (ECU-8S), XFP 1-2 loop 32 zone fire panels, AFP 1-2 loop range of fire panels, Quantec controller (QT601-2) and other control units.

The enclosures require a lock kit which is supplied separately; BF359/3CL (Camlock kit) or BF359/3SL (Electromagnetic solenoid lock kit). See overleaf for details.

Accessories supplied with the BF359/3D & BF359/3S

1 x Allen key, 4 x (M4 x 10 pan pozi) screws

Note: The M4 screws are used to secure the relevant control unit inside the enclosure using the threaded fixing holes in the enclosure's backbox.

Installing the BF359/3D & BF359/3S

Note: To install control units inside the enclosure refer to the relevant control unit's installation manual for first and second fix details, e.g ECU-8 Installation manual (Document No. DAU0000081).

Knockout holes in the enclosure's backbox

Various 20 mm knockout holes are provided in the top, bottom, sides and back of the enclosure's backbox. The knockouts enable conduits to be fitted and mains supply cable / field wiring to be fed to the housed control unit. Knockouts should be removed with a sharp, light tap using a flat, broadsided screwdriver.

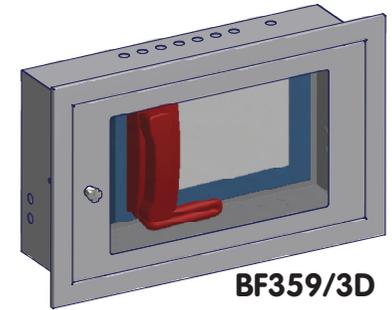
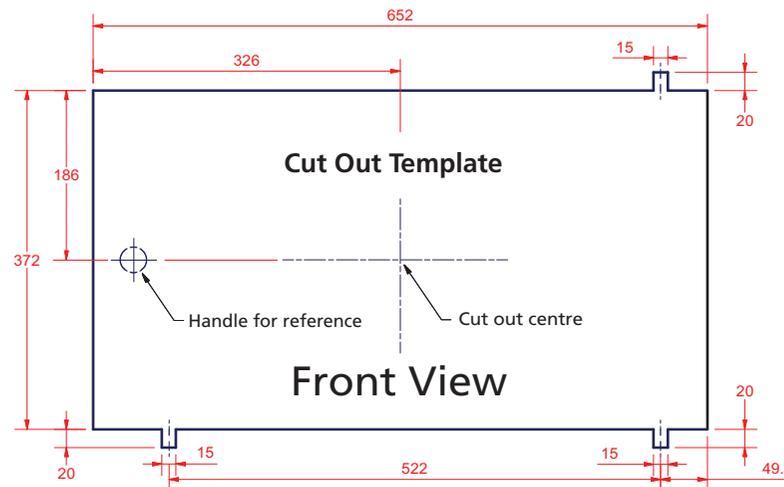
Location and fixing

The enclosures must be sited indoors and not be subjected to conditions likely to affect their performance. They should be flush-mounted on a wall using the six mounting holes (provided). Use the cut out template (below) to assist.

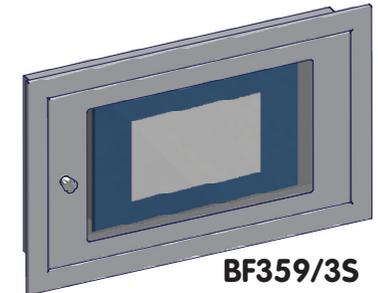
CAUTION: The enclosures are heavy! Therefore, use suitable fixings for wall mounting the enclosures. Where the construction of a wall does not allow a flush-mounting solution, we recommend the use of a plinth to deepen the apparent depth of the wall.

Cleaning the enclosure

The front door and bezel are made of stainless steel. Routine cleaning can be accomplished by using warm water and a mild detergent. Dry with a cloth to prevent water spots. Wipe down with baby oil on a paper towel, going with the grain.



BF359/3D



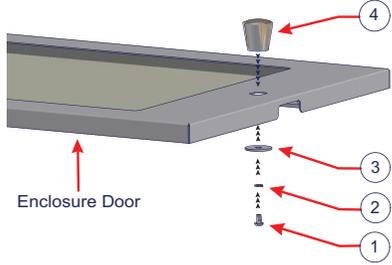
BF359/3S

BF359/3D & BF359/3S Mechanical Specification	
Enclosure materials	Backbox – mild steel Front window – polycarbonate Door & bezel – brushed stainless steel
Weight	BF359/3D – 11.1 kg BF359/3S – 9.3 kg
Colour	RAL7005 (Mouse Grey)
Type of lock	Pull knob (optional) Key operated camlock (optional) Solenoid release (optional)
BF359/3D & BF359/3S Dimensions	
Overall Dimensions (w x h x d)	BF359/3D – 725 mm x 448 mm x 193 mm BF359/3S – 725 mm x 448 mm x 103 mm
Backbox (w x h)	650 mm x 370 mm
Bezel (w x h x d)	725 mm x 448 mm x 10 mm
Flush-mount depth for wall fixing	BF359/3D – 183 mm BF359/3S – 93 mm
Wall mounting holes	6 off (4.7 mm diameter)
Knock outs	Top of backbox – 8 off (20 mm diameter) Bottom of backbox – 5 off (20 mm diameter) Back of backbox – 8 off (20 mm diameter)
Cut out for enclosure	See cut out template (left)

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BF359/3CL Camlock Kit

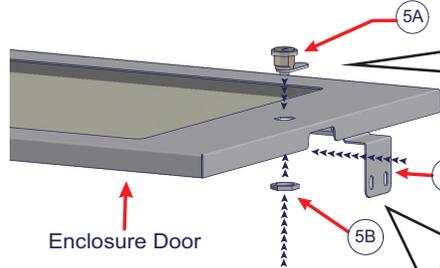
Fitting the Pull Knob (Optional)



BF359/3CL Parts List		
Item	Qty	Description
1	1	M4 x 10 Pozi Pan BZP
2	1	M4 Spring Washer
3	1	Penny Washer
4	1	SS Knob 30 mm diameter
5A (*)	1	Camlock C330
5B (*)	1	Hex Nut
6	1	Lock Keeper Plate
7	2	M5 x 8 Sck. Cap. HD BZP
8	2	M5 Sq. Spring Washer ZP
9	2	M5 Plain Washer BZP
-	1	4 mm Short Arm Allen key

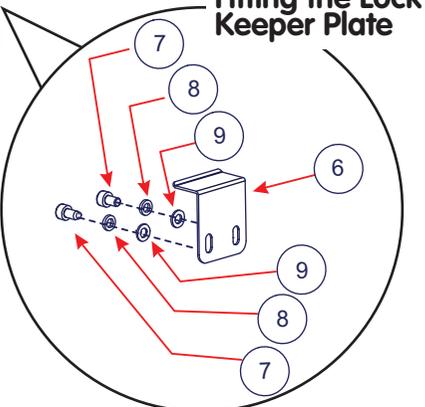
(*) Item 5 comprises of 1 camlock and 1 hex nut.

Fitting the Camlock (Optional)



Remove the hex nut (Item 5B) from the camlock (Item 5A). Feed the camlock through the hole in the enclosure door and re-attach the hex nut to the camlock.

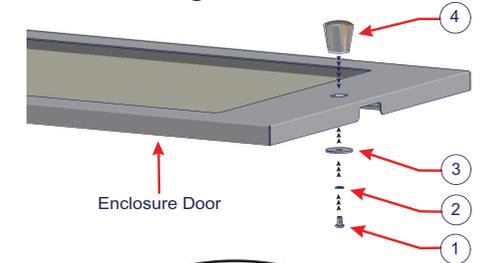
Fitting the Lock Keeper Plate



Fit the lock keeper plate (Item 6) to the enclosure's backbox. Adjust the height of the plate to suit the turn of the camlock (Item 5A).

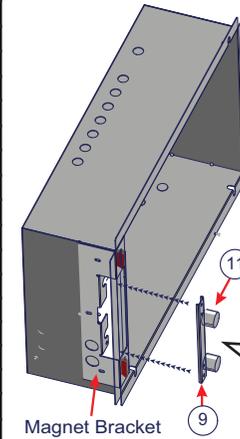
BF359/3SL Solenoid Lock Kit

Fitting the Pull Knob

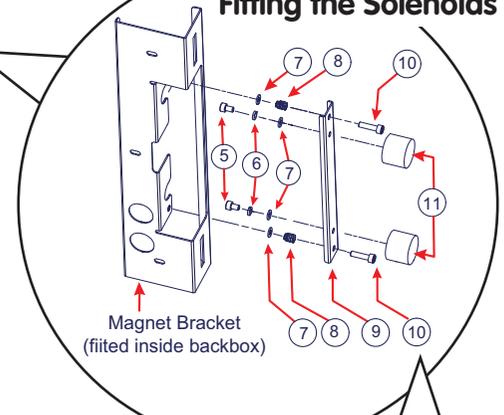


BF359/3SL Parts List		
Item	Qty	Description
1	1	M4 x 10 Pozi Pan BZP
2	1	M4 Spring Washer
3	1	Penny Washer
4	1	SS Knob 30 mm diameter
5	2	M5 x 8 Sck. Cap. HD BZP
6	2	M5 Sq. Spring Washer ZP
7	4	M5 Plain Washer ZP
8	2	13 mm Tamper Spring
9	1	Solenoid Bracket
10	2	M5 x 20 Sck. Cap. HD BZP
11A (*)	2	Solenoid 24 Vdc 4 watt
11B (*)	2	1N4001 Diode
11C (*)	1	4 way Terminal Block 5 A
11D (*)	2	0.75 mm ² Grey Twin BLace
-	3	Self Adhesive Cable Support
-	2	Self Adhesive PCB Support
-	-	4 mm Short Arm Allen key

(*) Item 11 is a pre-assembled unit and comprises of 2 solenoids and a wired loom fitted with a terminal block and 2 diodes.

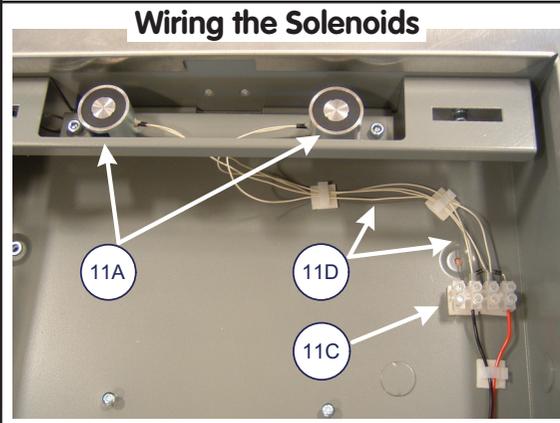


Fitting the Solenoids

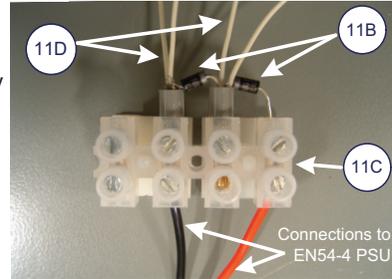


To obtain best contact between the solenoids and magnetic keeper plate (on the inside of the enclosure door) adjust height of solenoid bracket using Item 10.

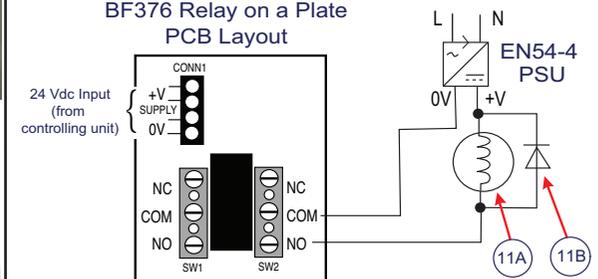
Wiring the Solenoids



The two diodes (Item 11B) provide polarity and back EMF protection generated by the two solenoids (Item 11A).



BF376 Relay on a Plate PCB Layout



We recommend using the solenoid lock kit with an EN54-4 power supply unit, e.g. BF360-24, combined with a BF376 relay on a plate. See example wiring config above.