

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

THE ENCLOSURES MUST BE INSTALLED AND MAINTAINED BY A SUITABLY SKILLED AND TECHNICALLY COMPETENT PERSON

Product Overview

BF359/3D is a flush stainless steel, anti-tamper enclosure (deep version) for use with 'legacy' ECU Controllers with **red** handsets (ECU-4/ECU-8).

BF359/3M is a flush stainless steel, anti-tamper enclosure (medium depth version) for use with 'new-style' ECU Controllers with **grey** handsets (ECU-4/ECU-8/ECU/16).

BF359/3S is a flush stainless steel, anti-tamper enclosure (shallow depth version) for use with various control units including ECU Controllers (ECU-8NT), XFP 32 zone fire panels, AFP 1-2 loop range of fire panels and Quantec controllers (QT601-2).

Each enclosure requires 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 enclosures

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

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



BF359/3D

Controller not included

Installing the Enclosures

Knockout holes in the enclosure's backbox

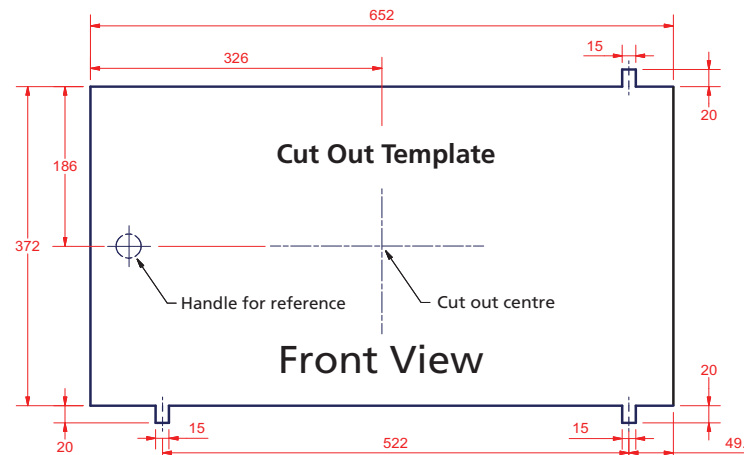
Numerous 20 mm knockouts are provided on the top, bottom, sides and rear of the enclosure's backbox. Knockouts should be removed with a sharp, light tap using a flat, broadsided screwdriver. The knockouts allow conduits to be fitted and mains supply cable / field wiring to be fed to the housed controller. Refer to the relevant installation instructions supplied with each controller for wiring connections.

Location and fixing

The enclosures must be sited indoors and not be subject to conditions likely to affect their performance. They should be flush-mounted on a vertical wall ≤ 2 m mounting height using the six mounting holes (provided). Use the cut out template (below) to assist.



CAUTION: The enclosures are heavy! Therefore, use fasteners suitable for the total weight of 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, BF359/3M & BF359/3S Mechanical Specification	
Enclosure materials:	Backbox – mild steel Front window – polycarbonate Door & bezel – brushed stainless steel
Weight:	BF359/3D – 11.1 kg BF359/3M – 10 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, BF359/3M & BF359/3S Dimensions	
Overall Dimensions (w x h x d):	BF359/3D – 725 mm x 448 mm x 193 mm BF359/3M – 725 mm x 448 mm x 130 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 BF359/3M – 127 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)

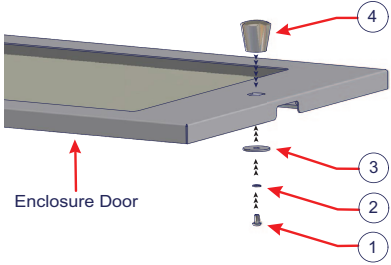


Errors & Omissions Excepted. The manufacturer of this product operates a policy of continuous improvement and reserves the right to alter product specifications at its discretion and without prior notice. All of the instructions covered in this document have been carefully checked prior to publication. However, no responsibility can be accepted by the manufacturer for any inaccuracies or for any misinterpretation of an instruction or guidance note.

Manufacturer: Computationics Limited (C-TEC), Challenge Way, Martland Park, Wigan, Lancashire WN5 0LD. www.c-tec.com

BF359/3CL Camlock Kit

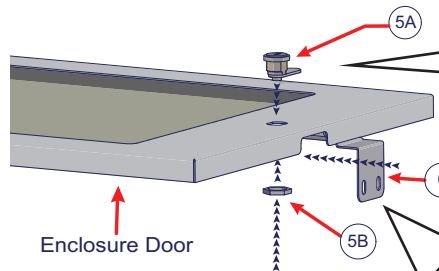
Fitting the Pull Knob (Optional)



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

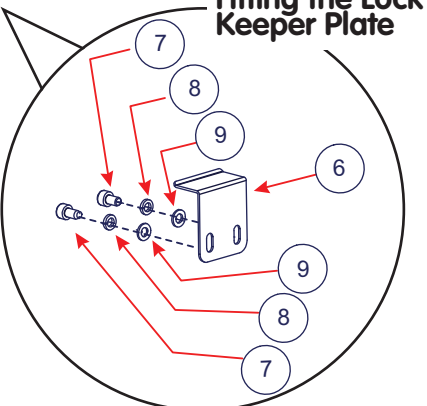
(*) Item 5 comprises of 1 camlock and 1 hex nut.

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.

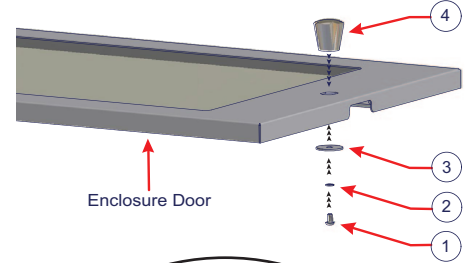
Fitting the Lock Keeper Plate



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).

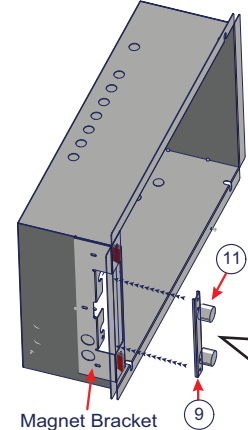
BF359/3SL Solenoid Lock Kit

Fitting the Pull Knob

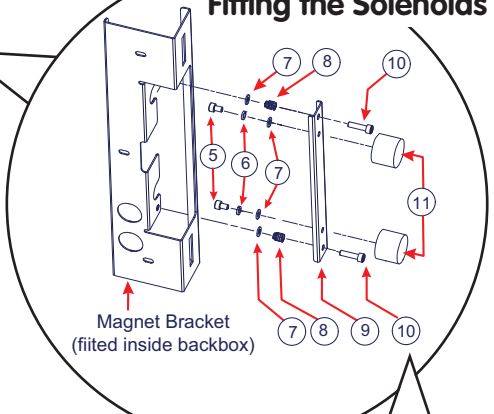


BF359/3SL Parts List		
Item	Qty	Description
1	1	M4 x 10 Pozi Pan BZP
2	1	M4 Spring Washer
3	1	Penny Washer
4	1	SS Knob 30 mm diameter
5	2	M5 x 8 Sck. Cap. HD BZP
6	2	M5 Sq. Spring Washer ZP
7	4	M5 Plain Washer ZP
8	2	13 mm Tamper Spring
9	1	Solenoid Bracket
10	2	M5 x 20 Sck. Cap. HD BZP
11A (*)	2	Solenoid 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.

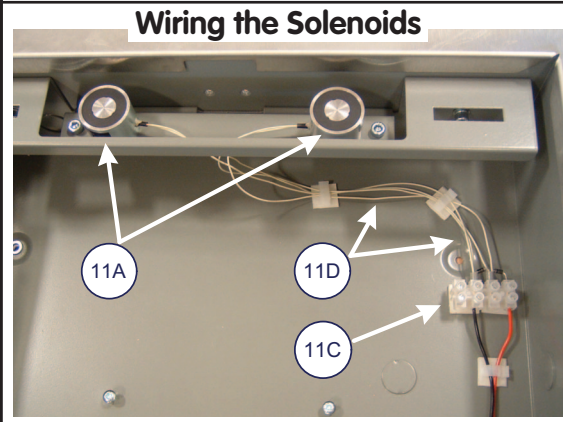


Fitting the Solenoids

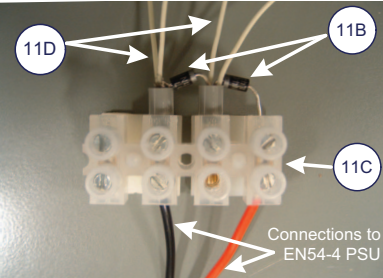


To obtain best contact between the solenoids and magnetic keeper plate (on the inside of the enclosure door) adjust height of solenoid bracket using Item 10.

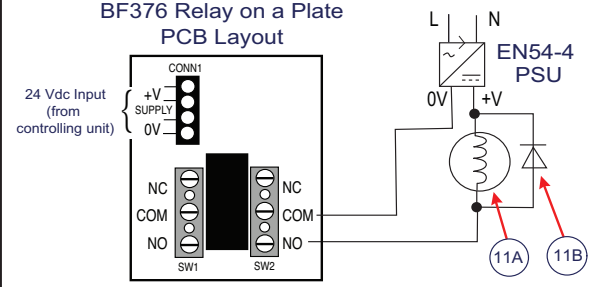
Wiring the Solenoids



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. BF560-24, combined with a BF376 relay on a plate. See example wiring config above.