

# FS/DK and 170E/S/SH Drop Key Fireman Switches

## FS/DK AND 170E/S/SH DROP KEY FIREMAN SWITCHES

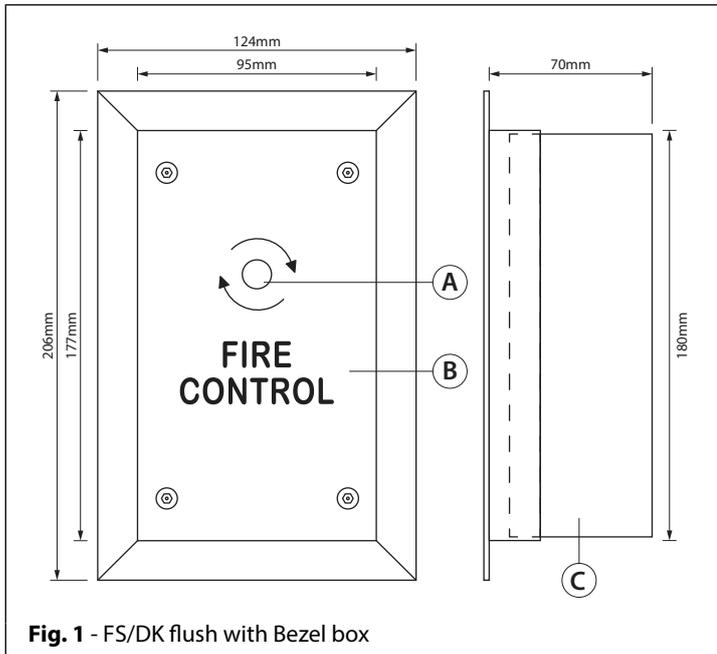


Fig. 1 - FS/DK flush with Bezel box

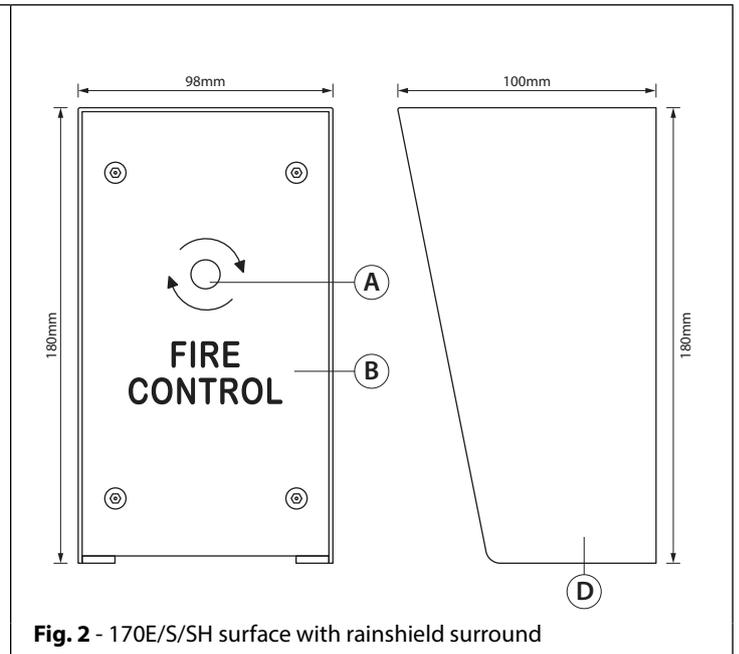


Fig. 2 - 170E/S/SH surface with rainshield surround

### DESCRIPTION

The **FS/DK** (including flush bezel box), **Fig.1**, and **170E/S/SH** (including surface box with rainshield surround), **Fig.2**, are drop key fireman switches that incorporate a double pole micro-switch.

The front fascia is manufactured from 12 gauge, 316 grade brushed stainless steel.

It can be configured as a 'make' switch (black and blue wires), a 'break' switch (violet and green wires) or both and can be used with a standard **FSK/DK** (175E) drop key.

### LEGEND

- (A) Drop key switch hole
- (B) 12 gauge, 316 grade stainless steel face plate
- (C) Flush bezel back box
- (D) Surface back box with rainshield surround
- (E) Relay 2 normally closed output (green wire)
- (F) Relay 2 common input (violet wire)
- (G) Relay 1 common input (black wire)
- (H) Relay 1 normally open output (blue wire)
- (I) Double pole DPDT micro switch

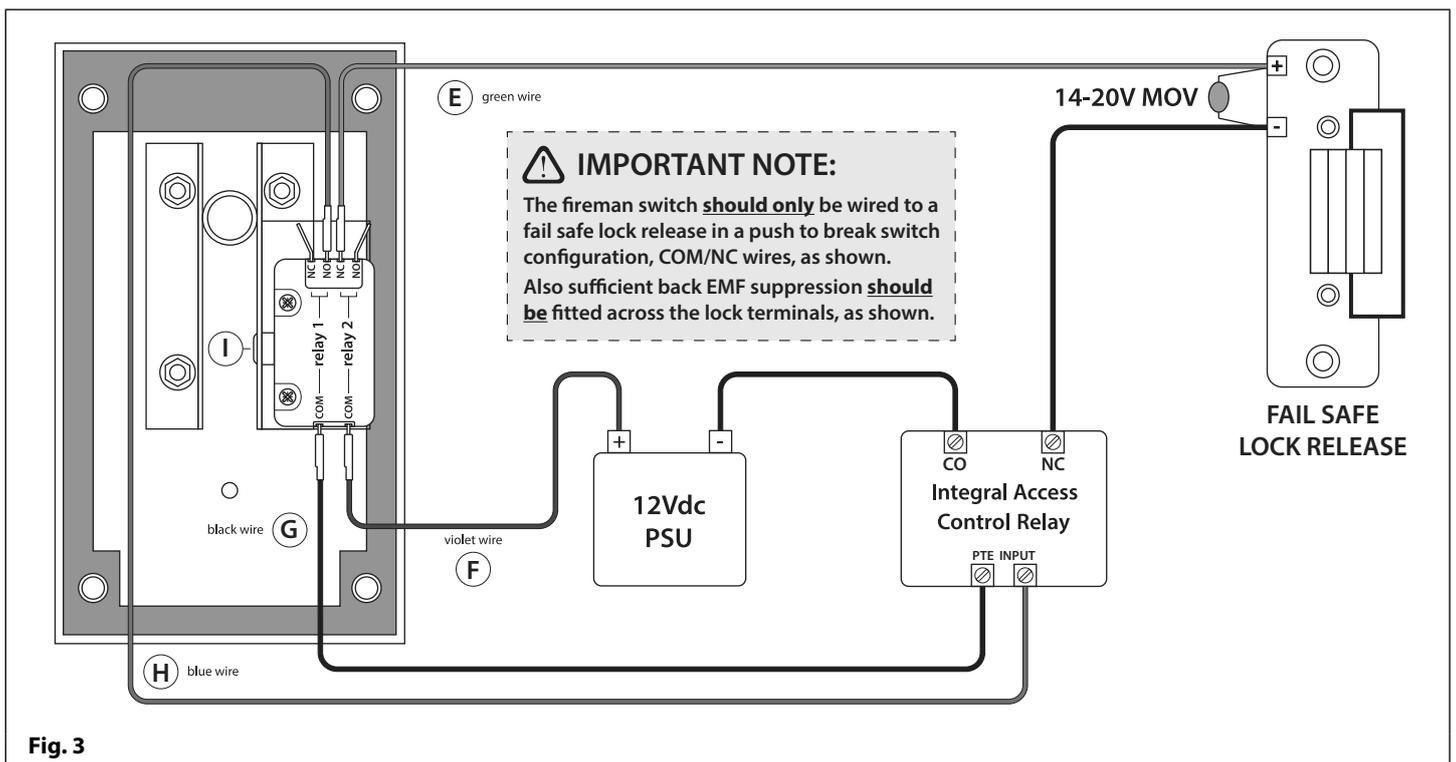


Fig. 3

**FS/DK and 170E/S/SH** Drop Key Fireman Switches

**IMPORTANT NOTE: THE FIREMAN SWITCH SHOULD ONLY BE WIRED TO A FAIL SAFE DC LOCK RELEASE IN A 'PUSH TO BREAK' SWITCH CONFIGURATION, COM/NC WIRES (VIOLET AND GREEN), AS SHOWN IN FIG.3.**

**ALSO SUFFICIENT BACK EMF SUPPRESSION SHOULD BE FITTED ACROSS THE LOCK RELEASE TERMINALS: FOR A 12VDC LOCK FIT A 14-20V MOV AND FOR A 24VDC LOCK FIT A 26-30V MOV.**

**IF CONNECTING TO AN ACCESS CONTROL SYSTEM THE COM/NO WIRES (BLACK AND BLUE) CAN BE WIRED IN A 'PUSH TO MAKE' SWITCH CONFIGURATION, CONNECTED TO THE PUSH TO EXIT INPUT ON THE ACCESS CONTROL DEVICE. THIS WIRING CONFIGURATION SHOULD ONLY BE USED WHEN THE FIREMAN SWITCH IS CONNECTED TO A FAIL SAFE LOCK, AS SHOWN IN FIG.3.**

**THE FIREMAN SWITCH SHOULD NEVER BE CONNECTED TO A FAIL SECURE LOCK RELEASE.**

**TECHNICAL SPECIFICATION**

Current Rating:	5A at 24Vdc
Working Temperature:	-40 to +105°C
Flammability Rating:	UL94HB
Operation Cycles:	6000 (min operations approx.)
Key Type:	FSK/DK (175E) drop key

**DIMENSIONS (MM)**

Front Fascia:	95 (W) x 177 (H)
Flush Box -	
Bezel:	124 (W) x 206 (H)
Back Box:	97 (W) x 180 (H) x 70 (D)
Surface Box -	
Rainshield:	100 (Top), 72 (Bottom)
Back Box:	98 (W) x 180 (H)

**TERMINAL WIRES**

<b>Black:</b>	relay 1 common	Push to 'make' switch
<b>Blue:</b>	relay 1 normally open	
<b>Violet:</b>	relay 2 common	Push to 'break' switch
<b>Green:</b>	relay 2 normally closed	

**CUSTOMER SUPPORT**


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