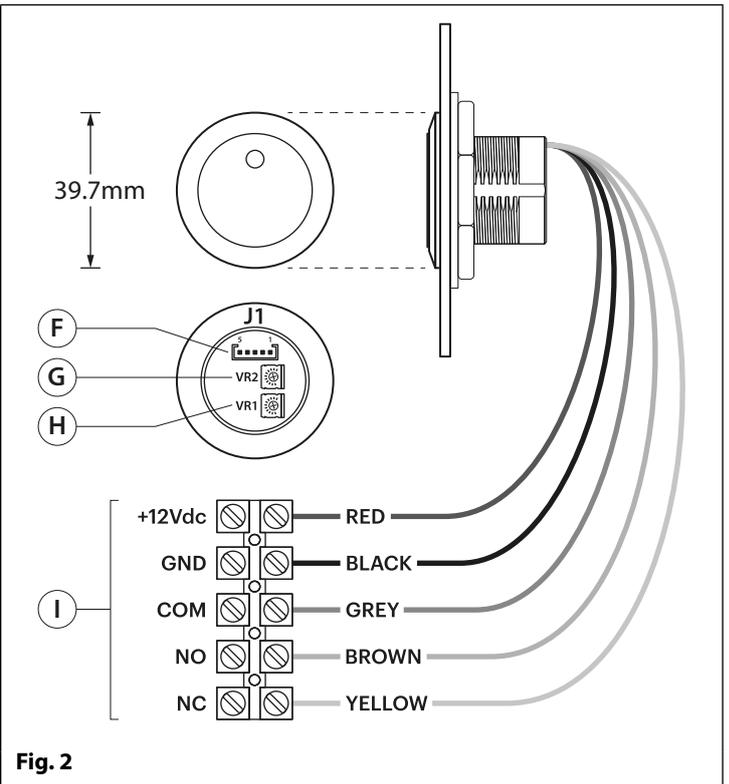
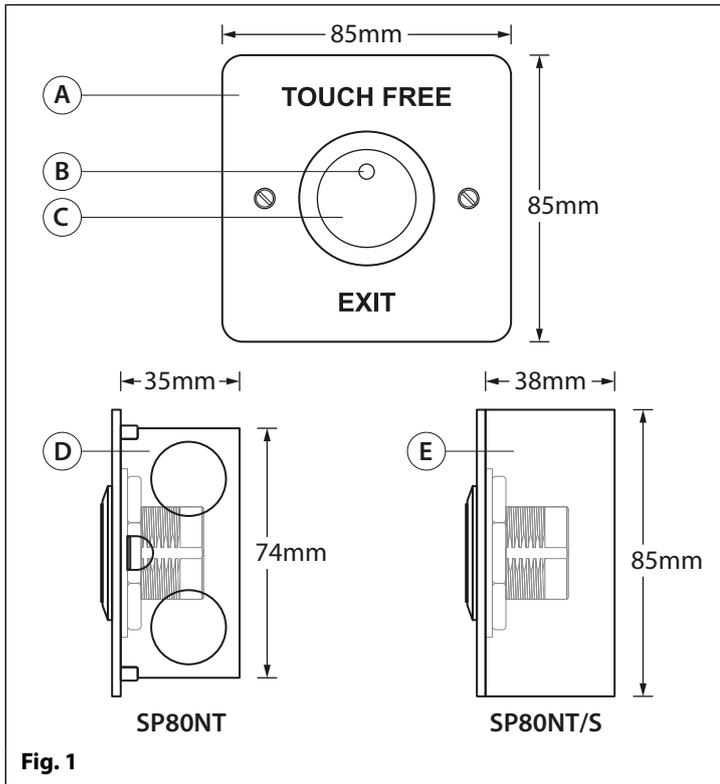


SP80NT - SP80NT/S Infrared Touch Free Exit Button

FLUSH & SURFACE TOUCH FREE BUTTONS



DESCRIPTION & OPERATION

The **SP80NT** (flush) and **SP80NT/S** (surface) are both touch free exit buttons (**Fig.1**) that incorporate infrared sensor technology.

When connected directly to an electric lock the touch free button allows a user to safely exit a room or building without the need to press a button by simply approaching the button sensor (**Fig.1** C) with their hand and activating the buttons relay output.

During standby the status LED (**Fig.1** B) will be illuminated red indicating the button has 12Vdc power, when the button is activated the status LED will change and illuminate blue.

The internal electronics (**Fig.2**) are resin potted offering an additional layer of protection from the elements (IP65). It has a connector **J1** (**Fig.2** I) with pre-coloured wires allowing connection for 12Vdc power and the relay output connections **COM**, **NO** and **NC**.

It also includes two variable POT controls, **VR1** and **VR2**, allowing for the setup of the relay output time (0.5 ~ 20 secs or latching toggle ON/OFF mode) and the adjustment of the infrared sensors proximity range (3 ~ 15 cm) respectively.

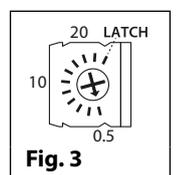
The exit button face plate is manufactured from 16 gauge brushed stainless steel. The **SP80NT** is supplied with a standard UK size single gang flush electrical box (**Fig.1** D) **dimensions**: 74mm [L] x 74mm [W] x 35mm [D]. The **SP80NT/S** is supplied with a standard UK size single gang surface box housing (**Fig.1** E) **dimensions**: 85mm [L] x 85mm [W] x 38mm [D].

⚠ IMPORTANT NOTE! : THE TOUCH FREE BUTTONS ARE DESIGNED FOR INTERNAL USE OR IF USED EXTERNALLY MUST BE PROTECTED FROM DIRECT RAIN/SLEET/SNOW ETC. TO AVOID FALSE TRIGGERING OF THE SENSOR.

RELAY OUTPUT TIME CONTROLS (VR1)

The **VR1** adjustment POT, **Fig.3**, sets the touch free buttons relay output time from 0.5 ~ 20 seconds or latching (toggle ON/OFF) mode.

Turning the POT clockwise will increase the relay output time, turning the POT anti-clockwise will decrease the relay output time. Turning the POT fully clockwise will set the relay output for latching (toggle ON/OFF) mode.



SP80NT - SP80NT/S Infrared Touch Free Exit Button

INFRARED SENSOR PROXIMITY CONTROLS (VR2)

The VR2 adjustment POT, **Fig.4**, controls the proximity range of the infrared sensor, i.e. the distance at which the sensor will register a hand and activate the relay output. By default this will initially be set to 3cm (approx). Turning the POT clockwise will increase the sensors proximity reading range, turning the POT anti-clockwise will decrease the sensors proximity reading range. The sensor range is between 3 ~ 15 cm.

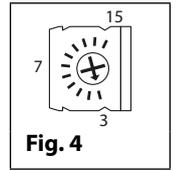


Fig. 4

J1 CONNECTOR

Wire Colour	Connection / Description
Red	+12V / +12Vdc power input
Black	GND / 0V power input
Grey	COM / relay common connection
Brown	NO / relay normally open connection
Yellow	NC / relay normally closed connection

TECHNICAL SPECIFICATION

Working voltage: 12Vdc (+/- 10%)
Current (standby): 25mA (+/- 5%)
Current (operation): 37mA (+/- 5%)
Relay output: COM, NO and NC
Relay current / voltage: 1A @ 30Vdc (max.)
Working Temperature: -10°C ~ +50°C

WIRING DIAGRAMS

For connections to a fail secure lock release follow **Fig.5**. For connections to a fail safe lock release (including a mag lock) follow **Fig.6**. For volt free relay output (for connection to an electric gate or an access control system) follow **Fig.7**.

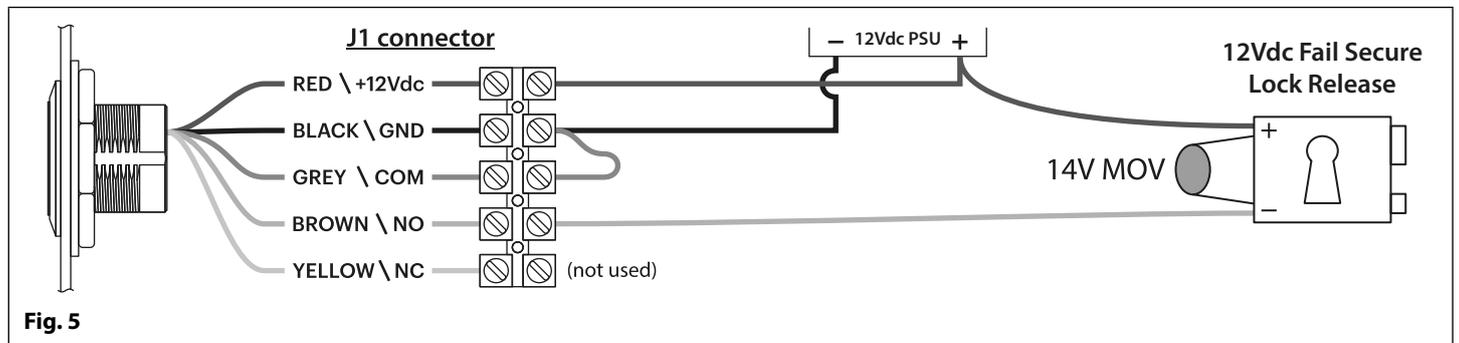


Fig. 5

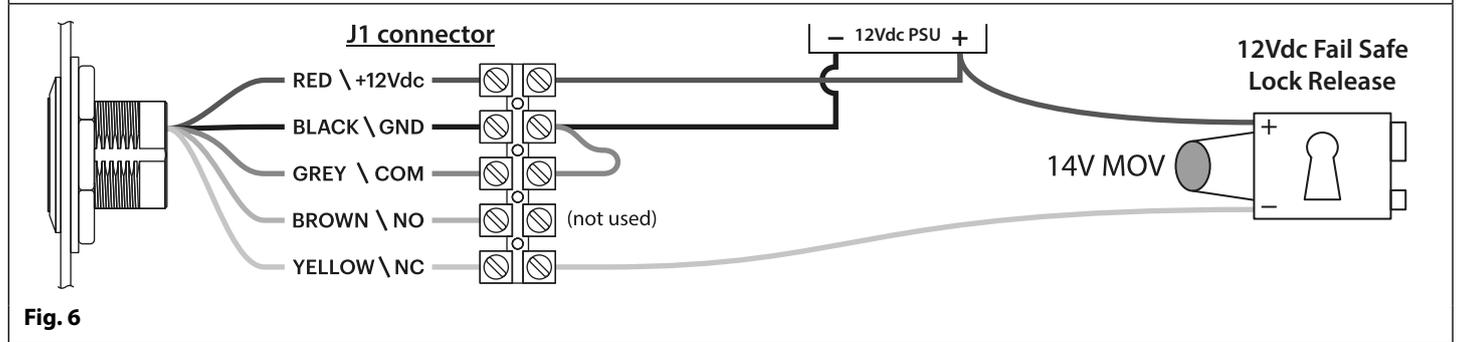


Fig. 6

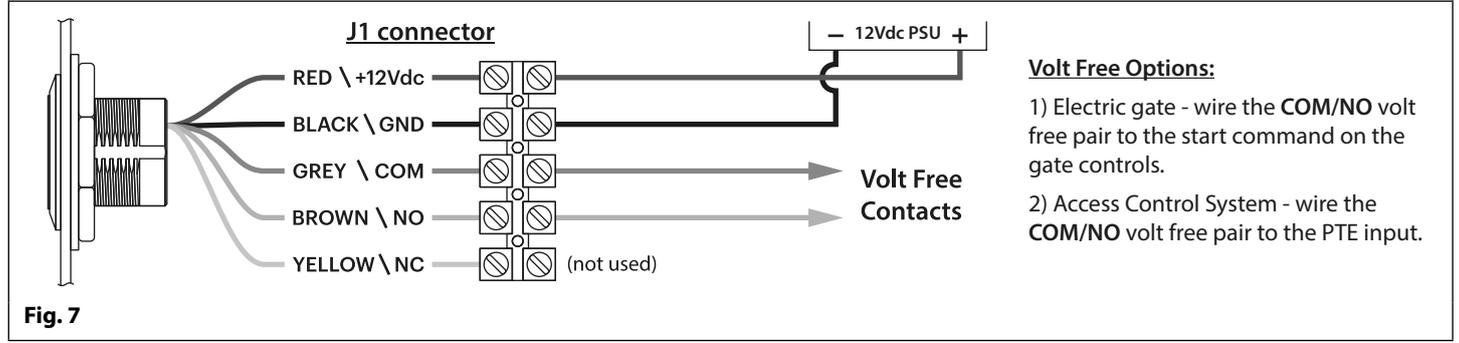


Fig. 7

UK CUSTOMER SUPPORT

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