# 802-0002 Twinflex Input Module (Detector)
# 802-0003 Twinflex Input Module (Call Point)

## General Description

The Twinflex Input module is available to enable the Twinflex system to receive a fire input signal from the zone circuit. This device is compatible with the Twinflex range of Fire Alarm equipment as an auxiliary input unit. The unit consists of a boxed module which may be mounted within the unit to be monitored. Upon activation the module generates a 'DETECTOR ALARM' or 'MANUAL CALL POINT ALARM' at the control panel depending on speification.

## Device Installation

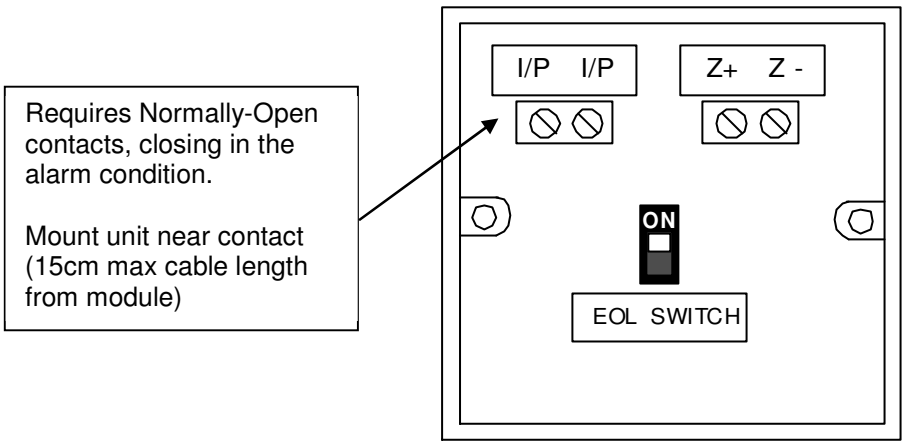
All wiring must be installed in compliance with the recommendations laid out by BS5839 Pt1 : 2002 as well as any special recommendations documented in the control panel installation manual. The cabling used should be of a 2-core 1.5mm$^2$ screened, fire resistant type (e.g. MICC or FP200 equivalent), and is to be wired in the form of a screened 2-core radial circuit (with no spurs) from the control panel, terminating at the last ("End of Line") device.

### *Installation 1st Fix*

Fix the interface (surface/boxed single gang) in a suitable position remembering to allow enough space for the correct termination of the appropriate cables. The interface PCB must be mounted within 15cm of the contacts to be monitored.

### *Installation 2nd Fix*

Once all testing has been carried out on the cabling, and 'continuity & integrity' of the zone pair has been proven, the interface unit may be connected and commissioned. Remember to set the end of line (EOL) switch to the on position if the unit is the last device on the circuit. It is important to note also, that this input is a 'latching fire input', and *is not* fault monitored.

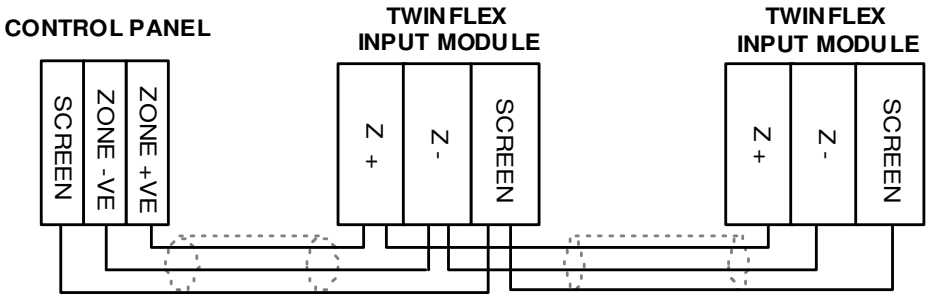



## Connections

The cabling should be 2-core 1.5mm$^2$ screened/earthed and fire resistant e.g. MICC or FP200 equivalent type and is to be in the form of a 2-core radial circuit terminating at the End of Line device.

No screen connection is allowed for within the device. Incoming and outgoing cable screens must therefore be connected through using a suitable connector. It is important to maintain the screen continuity in order to protect against data corruption from interference.

***Remember that the device at the end of the line must have its EOL signal activated using the relevant EOL switch. Do not use a resistor or capacitor (or another manufacturer's End of Line device) as the end of line, as this may prevent correct operation of the zone.***




Note: the screen connection at each Input Module is via a separate terminal connector (not included) and is not on the circuit board.

Twinflex Input Modules can be mixed on the same zone as other types of Twinflex device (eg. Twinflex Multipoint Detectors). The above diagram shows how to make the zone positive, zone negative and screen connections between the control panel and Twinflex Input Modules. Refer to the instruction leaflets supplied with other Twinflex devices for their equivalent wiring/terminal labelling details.

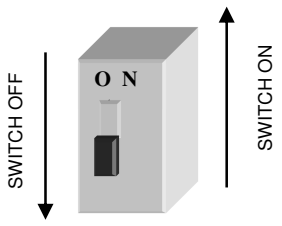
Please note that the screen connections at each Input Module should only be connected to the zone cable screen and NOT to the building earth. The cable screen is connected to earth at the panel end only, via the zone "SCRN" terminal (or EARTH terminal on the Twinflex V3 2/4/8 Zone panels).

## Testing

The unit may be tested by applying a short-circuit between the two alarm terminals, but it is better to operate the device which controls the contacts to which it is connected. This will cause the control panel to enter the fire state. When the cause for the alarm is removed the control panel may be silenced and reset.

## DIL Switch Settings

The last device on the circuit must have the EOL signal enabled (switch number 1 in the 'ON' position).




| | | DIL SWITCH SETTINGS |
|---|---|---|
| | | 1 |
| **End of line** | Enabled | ON |
| | Disabled | OFF |

## Technical Data

| | | | |
|---|---|---|---|
| Dimensions | Width x Height | 87mm x 87mm | |
| | Depth | 42mm | |
| Operating Temperature | | -10°C to +50°C. | |
| Voltage Ranges | DC Output from Mains Powered Panel | 25.5 to 35V DC | |
| | DC Output from Battery Powered Panel | 20 to 26V DC | |
| Operating Current | Quiescent | 834 uA (Typical) | |
| | End of line ON if applicable | 129 uA (Typical) | |
| | *(in addition to Quiescent)* | | |
| | Alarm Activated - IP Module (Detector) | 20 mA | |
| | Alarm Activated - IP Module (Call Point) | 16 mA | |
| Loading Units | | V3 Panel | Pro Panel |
| | Max Loading Units per zone | 27 SLU | 160 DLU |
| | IP Module (Detector) | 3.5 SLU | 20.0 DLU |
| | IP Module (Call Point | 3.0 SLU | 16.0 DLU |
| Flammability | | UL94-V2 | |
| IP Rating | | IP 21C | |
| Part Code | Twinflex IP Module (Detector) | 802-0002 | |
| | Twinflex IP Module (Call Point) | 802-0003 | |

## Technical Support

Contact your supplier for technical support on this product.

Due to the complexity and inherent importance of a life risk type system, training on this equipment is essential and commissioning should only be carried out by competent persons. Fike cannot guarantee the operation of any equipment unless all documented instructions are complied with, without variation.

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