# ZF02

## OPTICAL HEAT DETECTOR

**INSTALLATION AND MAINTENANCE INSTRUCTIONS**

### SPECIFICATIONS

| | |
|---|---|
| Supply Voltage: | 14 - 28VDC |
| Quiescent current: | 60µA Typical @ 24VDC, 25°C |
| Latching Alarm: | Reset by momentary power interruption. |

***WARNING - Detector characteristics may vary from other manufacturer products. Check compatibility with panel supplier for any limitations, for example maximum quantity of devices per circuit.***

### BASE MOUNTING AND WIRING INSTRUCTIONS

See figure 1 for terminal connections. Detector LED position marked by diode symbol and arrow on base wall (See fig 1 *)

Notes:Do not loop wire under terminals: Break the wire run to ensure supervision of connections. All wiring must conform to applicable local and national codes and regulations.

Each base is fitted with a shorting spring to connect across terminals 1 and 2 to permit loop wiring to be checked before installation of detector heads. This spring automatically disengages when the detector is fitted into the base.

***WARNING - Remove power from detector monitoring circuits before installing detectors.***

### DETECTOR INSTALLATION

1. Place the detector into the detector base and rotate clockwise with gentle pressure until the detector drops into place. Continue rotating clockwise until the slot in the detector cover lines up with the lines moulded in the base (See fig. 2 **).
2. After all detectors have been installed, apply power to the detector monitoring circuits.
3. Test the detector as described under **TESTING**.

### Tamper-Resistance

The removal of the small plastic tab on the base indicated in figure 2 prevents the removal of the detector head without a tool.

***CAUTION - Dust covers must be removed before the system can be made operational.***

### TESTING

#### Smoke or Heat Method

1. Using a test smoke or heat tool from an approved manufacturer such as No Climb Products Ltd, apply in accordance with the suppliers instructions
2. The red LED on the detector should latch into alarm within 40 seconds, and the control panel should activate into alarm.

#### Laser Test Tool Method (Model No. 2020LT)

Note: This method does not carry out a complete functional test of the detector.

1. Align the flashing red spot produced by the laser beam with the LED on the detector.
2. Provided the detector has not reached its drift compensation limit, it should latch into alarm within a few seconds, and the control panel should activate into alarm.

### MAINTENANCE

1. Remove the detector to be cleaned from the system.
2. Gently release each of the cover removal tabs that secure the cover in place and remove the detector cover.
3. Vacuum the outside of the screen carefully without removing it.
4. Carefully remove the screen from the sensing chamber. Replacement screens are available.
5. Use a vacuum cleaner and/or clean, compressed air to remove dust and debris from the sensing chamber and the inside of the screen.
6. Re-install the screen by aligning the arrow moulded on it with the arrow on the sensing chamber, sliding the screen over the chamber and applying gentle pressure to secure it in place.
7. Reinstall the detector cover. Align the LED with the cover assembly and snap the cover into place, ensuring that all the cover removal tabs are correctly engaged.
8. When all the detectors have been cleaned, restore power to the circuit and test the detector as described in **TESTING** above.

***WARNING - LIMITATIONS OF SMOKE DETECTORS***

***Smoke detector will only work when connected to a functioning, compatible control panel.***

***Smoke detectors have sensing limitations. They will not sense fires where smoke does not reach the sensor, and different types of detector will respond differently to various smoke types.***

***Smoke detectors cannot last forever, and we recommended replacement after 10 years.***

**Fig. 1**
**2020B/2020BSD**

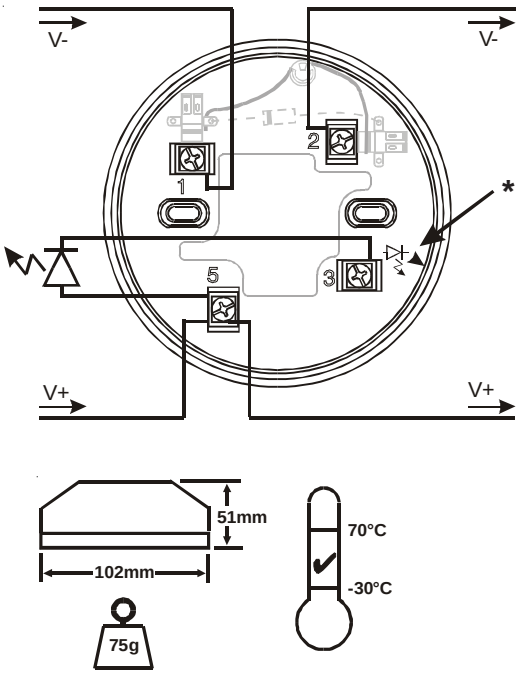


**Fig. 2**