

# OPTICAL SMOKE/HEAT DETECTOR & BASE

CSD-2 Sensor

Technical Sheet  
ref C 1694B

## INSTALLATION

- 1 Choose the proper place for installation of the fire detector. Refer to the given installation instructions.  
*Note: Do not install the detector near sources of steam, condensation or smoke and close to natural heat sources.*
- 2 If you want to "lock" the detector to the base remove the little "tooth" (with the triangle shape) and break the plastic key off the base. Keep the plastic key in safe place to be able to open the detector later.
- 3 Mount the relay base on the ceiling of the protected premises using fixings according the mounting surface.

Connect the detector base to the intruder alarm panel using the wiring diagram on next page (Fig 6).

**ATTENTION:** Disconnect the main power supply before installing the detector!

- 4 Insert the detector into the base and rotate clockwise until it drops into place. Continue to rotate the detector until it locks to the base – a click is heard.
- 5 If the detector has been locked to the base, when opening it for a service schedule maintenance and cleaning you have to use the plastic key. Lightly press the plastic key into the base opening and at the same time rotate the detector head counterclockwise.

**ATTENTION:** To clean the wire mesh you have to remove the detector's PCB and then carefully to disassemble the smoke chamber from it.

Clean the wire mesh and mount the chamber back on the PCB and observe the arrows – they have to coincide, then slightly press the chamber to the detector's PCB. Next you have to mount the PCB back to detector's plastic body. Find the color dot sticker on the PCB and orientate it to the mark on the plastic body (visible from the outside). The hole next to the color dot have to coincide with the pin on the plastic body. Gently press downwards to fix the PCB in place.

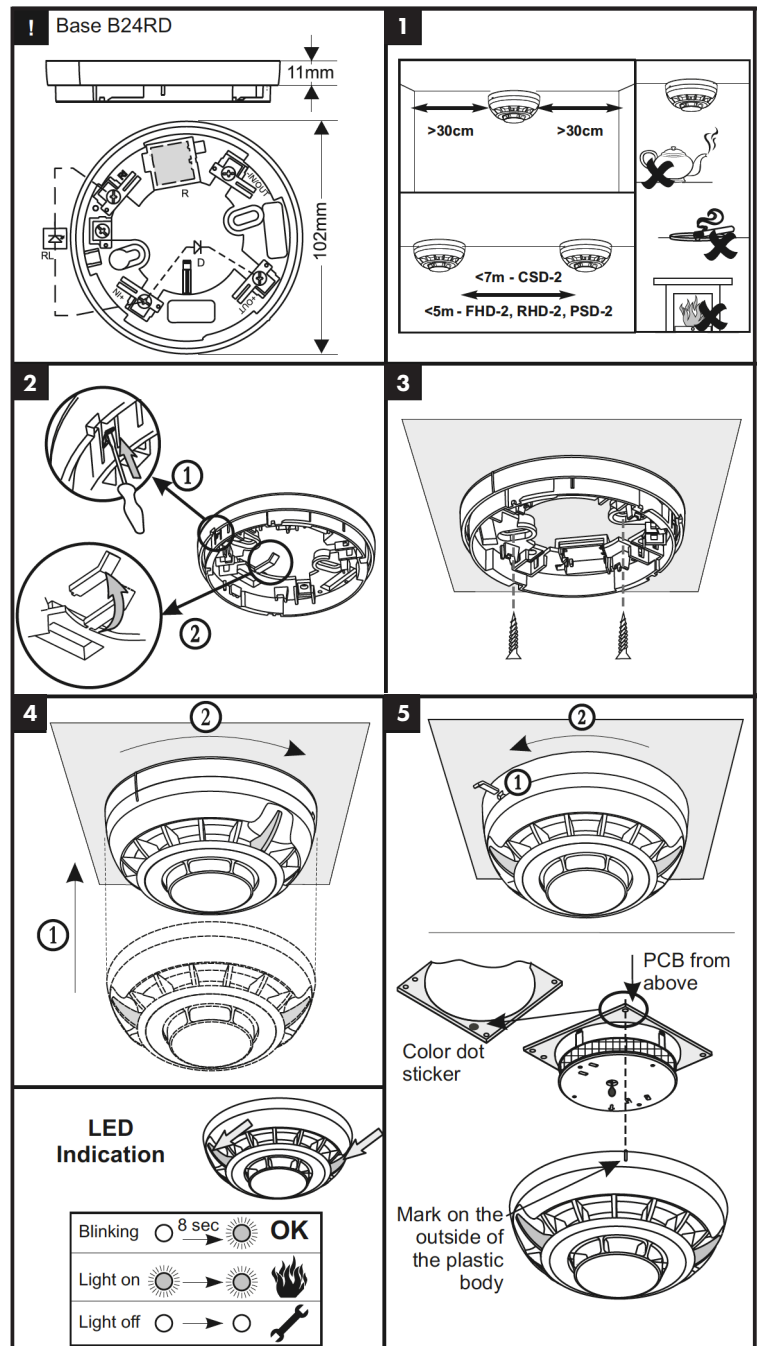
## TESTING THE DETECTOR

To test the detector use a smoke probe:

- Exert influence on the fire detector by smoke generator (Dispenser) or by aerosol simulator of smoke to test the optical part; or use heat tester (cordless heat detector tester or heat tester 110V>240V) at distance of 20 cm to test the heat part. Within 8 sec the fire detector will enter into fire condition. Both LEDs will light up.
- Power off the detector for 2 sec. minimum. After resetting the detector will enter in duty mode and the LEDs will turn off.

## SERVICE MAINTENANCE

- Inspection for visible physical damage – WEEKLY
- Operational test in real conditions – MONTHLY
- Check and clean dust contamination – SIX MONTHS
- Check and clean base and head contacts and connections – ANNUALLY

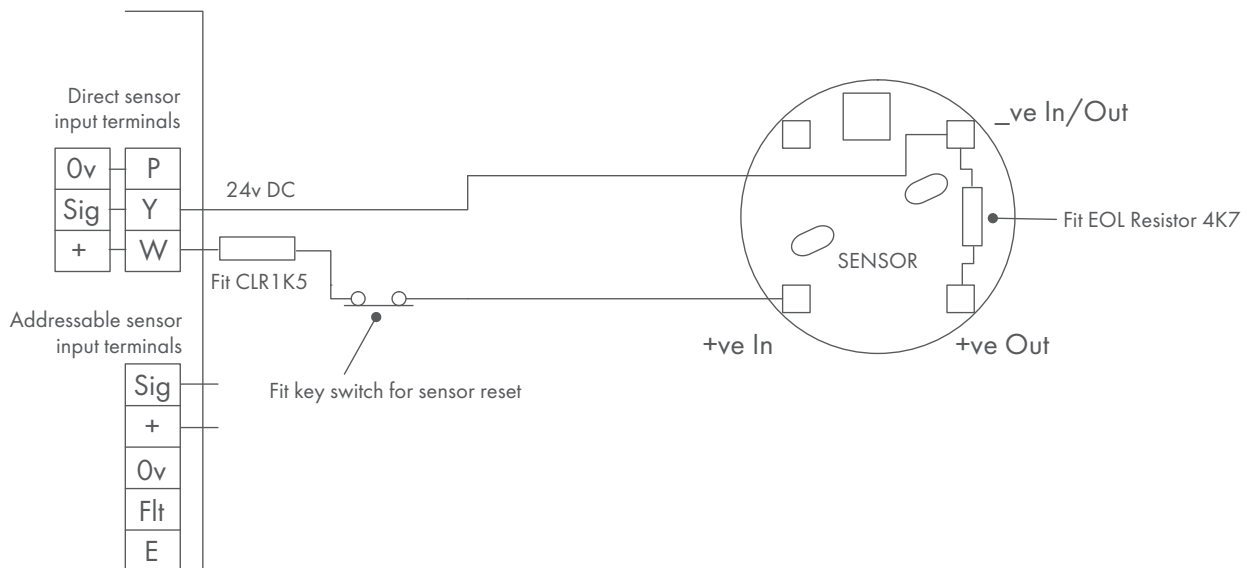


## SENSOR SPECIFICATION CSD-2

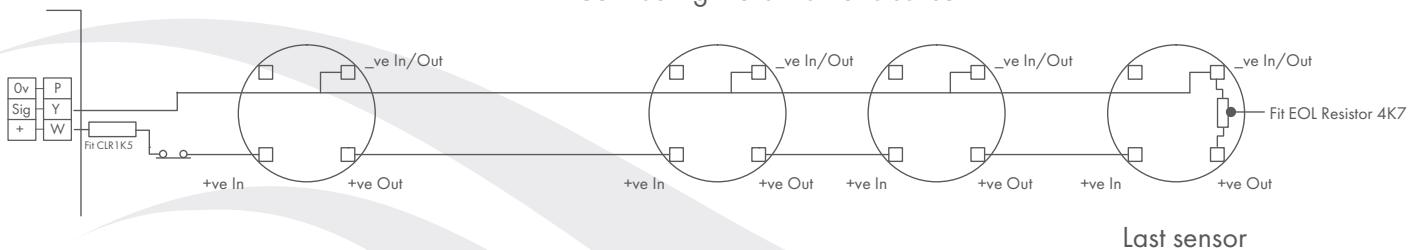
Operating Voltage Range .....	9 - 30 VDC (Nom.12/24VDC)
Average current consumption in quiescent state .....	< 50µA
Class (for the heat part, in accordance with EN54-5/7) .....	A1/R
Protected area (in accordance with EN54-5/7) .....	up 120m <sup>2</sup>
Installation height (in accordance with EN54-5/7) .....	up 16m
Degree of protection .....	IP30
Operational temperature range .....	-10 C + +60 C
Relative humidity resistance .....	(93 ± 3)% @ 40 C
Dimensions (incl. base) .....	ø102mm, h 48mm
Weight (incl. base) .....	160g

## CONNECTION DETAIL FOR GDS ALARM PANELS (Fig. 6)

For addressable sensors use with one of the following GDS 4~20mA input sensors 171-400 / 168-400 / 170-400



### Connecting more than one sensor



Note: EOL (End of Line Resistor – 4K7)  
CLR (4mA Current Limiting Resistor – 1K5)

