



V100



ANALOGUE ADDRESSABLE OPTICAL SMOKE DETECTOR

GENERAL DESCRIPTION

V100 is an analogue addressable optical smoke detector based on Tyndall effect. The innovative design of the baffle which the air flow has to pass through before entering the sampling chamber guarantees a high immunity to environmental dust and a long period between two consecutive cleanings of the chamber. Each detector is equipped with a Loop short circuit isolator.



The centrally positioned status LED provides full 360° visibility. The LED can signal an alarm condition (red), a fault condition or loop short circuit condition (yellow). The LED can also be manually switched on from control panel (green) for an easy identification of the detector. Detectors are equipped with an output for remote signalling (FI100). Detector sensitivity can be adjusted directly from control panel, by means of a magnet the detector can be inducted in alarm state for test purposes.

The detector can be fitted in the following mounting bases:

- VB100 (standard base)
- VDBS100 (deep base)
- BLR100 (relay base)
- VBS100 (siren base)

V100 detectors can be used with the control panels:

- SMARTLoop

- SMARTLight

Detector address (from 1 to 240) can be selected:

- By means of VPU100 programmer
- Using the control panel self addressing feature

MAIN FEATURES

- Approved according to **EN54-7** Standard by **BSI (N° KM96627)**
- Approved according to European Construction Products Directive (CPD) : 0086-CPD-504705
- Hi noise immunity
- Fast response
- 3 Colour LED located in the detector center
- Output for remote LED driving
- Available with DECOR option (Wood, marble etc.)

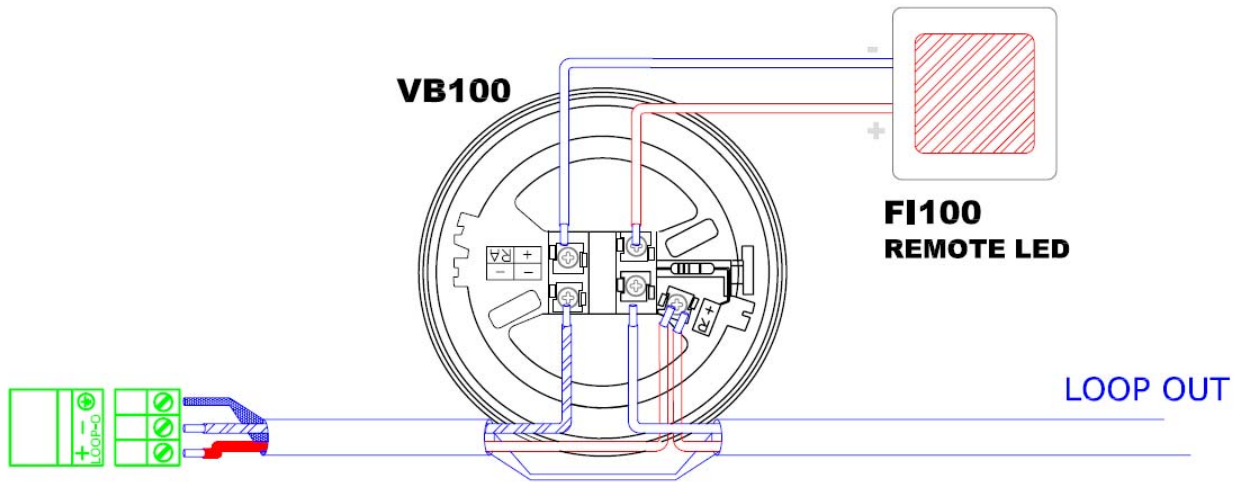


INSTALLATION

The detector mounting base must be installed on the ceiling by means of 2 fisher screws and the wires must be connected to its terminal boards. Position the detector on its mounting base and rotate it clockwise, applying



gentle pressure. The detector will slot into position. Press gently and continue to rotate clockwise a few degrees until the detector is firmly attached to its mounting base



WIRING DIAGRAM

WIRING

Detector has to be connected to fire control panel's Loop by means of a 2 pole twisted shielded cable (please refer to control panel installation manual for more details regarding wire gauge). The Negative pole of the Loop enter in one of the two terminal board labelled with “-“ on the mounting base, it do not mind which one enter and which one exit. The positive pole of the Loop enter and exit from the same terminal board, the one labelled with “R+” on the mounting base. The optional remote led can be connected directly on the mounting base terminal boards “+” (positive) and “RA” (negative), this output is current limited and can directly drive a LED.

TECHNICAL SPECIFICATIONS

PARAMETER	VALUE
Operating Voltage	10-40 V d.c.
Current consumption	90 uA
MAX Current on remote LED	6 mA
Operating temperature range	-30°C / +70°C
Umidity	95% RH
height (VB100 mounting base included)	54 mm
Diameter	110 mm
Weight (VB100 base included)	130 g



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