



601P

Optical smoke

General Description

601P detectors are capable of detecting the visible smoke produced by materials which smoulder or burn slowly, i.e. soft furnishings, plastic foam etc; or smoke produced by overheated but unburnt PVC.

These detectors are particularly suitable for general applications and areas.

Optical only detectors are not suitable for detecting fast burning fires producing little visible smoke or very black smoke.

The novel design of the asymmetrical sampling chamber and signal processing techniques stop unwanted alarms caused by very small insects, i.e. thrips.

Characteristics

- EN54 Approved by LPCB
- Low operational voltage : 10.5V to 33V
- Aesthetically discreet
- Superior performance and reliability
- Designed for rapid installation
- Integrated alarm Led
- Remote Led connection
- Wiring polarity independent
- Compatible with 5B and MUB universal base

Installation

The detector is composed of two parts: base and unit detector (figure 1)

Fit the detector unit onto the MUB base then twist clockwise.

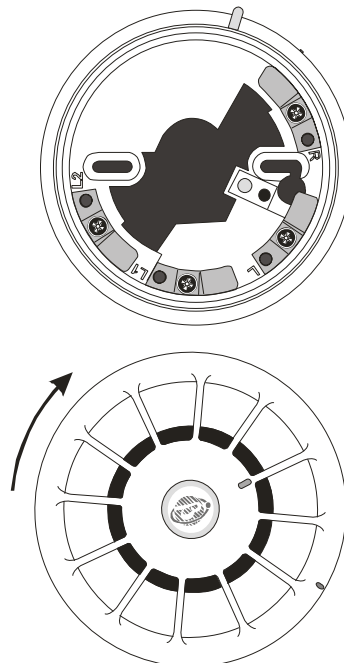


figure 1: 1) MBU Universal base; 2) Detector 601P

Connections

The detector circuits requires a positive and negative supply and these are wired to terminals L1 and L on the base (Polarity insensitive).

Base terminal L2 is connected to base terminal L1 when the detector is fitted to provide continuity monitoring through the detector.

Base terminals L2 and L provide outputs to the next detector or EOL device.

In case of alarm the detector communicate the state to control device by sinking from the supply leads an extra current.

For restoring from an alarm condition the power has to be removed for 2-5 seconds.

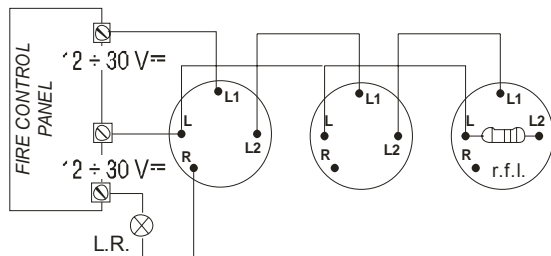


figure 2: Connection diagram

Specifications

Supply voltage	10,5 Vdc ÷ 33 Vdc
Average quiescent current	70 µA (max)
Alarm current	12 ÷ 65 mA (depend from power supply)
Holding voltage	2 V (max)
Holding current	0,4 mA (max)
Reset time	2 sec.
Stabilization time	30 sec.
Operating Temperature	-20 ÷ + 70 °C (no condensation or icing)
Fixed operation temperature	65 °C (max)
Threshold operation	0,12 dB/m 4,8%/m
Remote led drive	1 KΩ
Wiring connections	2 x 1,5 mm ² (max)
Environmental humidity	95% (Max) without condensing
Dimension (L*H)	43 * 109 mm
Weight	93 g
Material	FR110 "Bayblend" (fire resistant)
Conforms with	EN 54-5:2000 + A1:2002 EN 54-7:2000 + A1:2002

Commercial code

- 601P Optical smoke detector

Distributor:



Bentel Security s.r.l.
Via Gabbiano, 22
Z.I. S. Scolastica
64013 Corropoli (TE) – ITALY
Tel. +39 0861 839060
Fax +39 0861 839065
e-mail: info@bentelsecurity.com
<http://www.bentelsecurity.com>