

TSOS2

SMOKE DETECTOR



The TSOS2 is a low current, standard optical smoke detector, suitable for direct connection to most security alarm control panels or for use with other 12 volt detection systems.

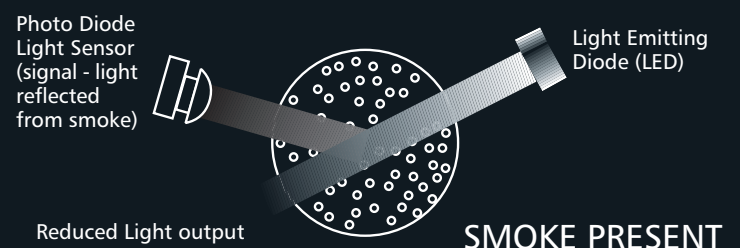
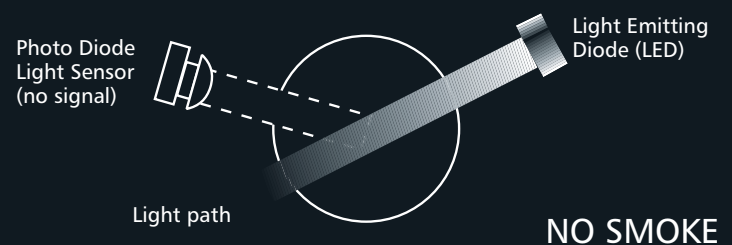
This efficient reliable detector provides early warning of a fire condition particularly in the case of slow burning fires.

It uses a 'double sampling' system to give maximum sensitivity with minimum risk of false alarm.

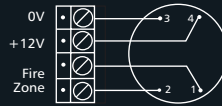
The secret lies in the light source and photodiode which are housed in the detection chamber. Smoke particles entering the chamber cause light scatter which is detected by the photodiode. This triggers the alarm if sensed for two successive sampling periods.

In addition to its sensitivity to smoke, the TSOS2 is resistant to false alarms caused by dust, insects, high humidity and high air velocity. It is a versatile and effective smoke detector for all standard fire applications.

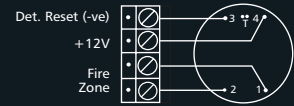
The detector is equipped with a set of voltage free contacts accessed via terminals on a standard Menvier removable base. The detector can be configured to either latch or auto-reset. A red LED provides a pulse every 15 seconds to indicate that the detector is working and illuminates continuously when in alarm.



Connections



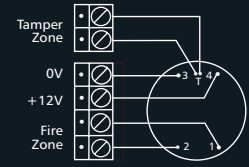
Control Panels without
Detector Reset Output
Use *Auto-Reset*



Control Panels with a -ve
Detector Reset Output
Use *Latching*



Control Panels with a +ve
Detector Reset Output
Use *Latching*



Using the spare terminals
to tamper protect
the Smoke Detector

Testing

- 1 Re-apply power to the control panel and reset so that it is back to a normal unset state.
- 2 Observe the LED on the detector. It should pulse approximately every 15 seconds to indicate that the detector is working.
- 3 Using a smoke canister or similar, smoke the head. After a short delay the detector should go into alarm, the LED should now glow red and the control panel will enter into alarm.
- 4 Reset the control panel.

Specifications

Operating Voltage	10-16 V dc
Current Consumption	3mA - Normal 45mA - Alarm
Alarm Contacts	2 Amp 28 V dc
Visual Indications	Non-alarm - Pulses red every 15 seconds Alarm - Constant red
Jumper-link Settings	Latching - Requires momentary disconnection of supply to reset detector Auto-Reset - Resets when smoke clears N/O - Normally open between terminals 1 & 2 N/C - Normally closed between terminals 1 & 2
Dimensions (W x D)	100 x 50mm
Weight	200g
Environment	0 to 55°C



Dealer details