

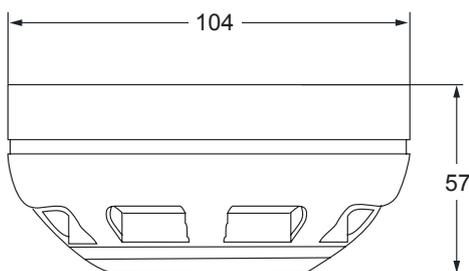
# ST-P-OM OPTICAL SMOKE DETECTOR 12-24V



## TECHNICAL DATA

|                               |  |
|-------------------------------|--|
| <b>Operating voltage:</b>     | 12-24V DC                                  |
| <b>Operating current:</b>     | Approx. 0,05 mA                            |
| <b>Alarm current:</b>         | Approx. 47 mA (at 22V)                     |
| <b>Detector head:</b>         | White PC with metal net around the chamber |
| <b>Base:</b>                  | White PC                                   |
| <b>External LED output:</b>   | 6V - 20 mA                                 |
| <b>Operating temperature:</b> | -10°C to 55°C                              |
| <b>Humidity:</b>              | Max. 95% RH                                |
| <b>Fire alarm indication:</b> | Red LED                                    |
| <b>Approvals:</b>             | EN 54-7                                    |
| <b>Weight:</b>                | Approx. 180g, incl. base                   |
| <b>Protection:</b>            | Base IP22                                  |

## DIMENSIONS (mm)



Mounting: 2 x M4 screws

## ORDERING EXAMPLE

| Article code  | Description   |
|---------------|---|
| ST-P-OM/I     | Smoke detector head optical                                   |
| STB-4SE-R/330 | Base for smoke detectors ST-x 24V, deep with 330 Ohm resistor |
| STB-4SE-12VRL | Relay base for smoke detectors with closed-circuit relay, 12V |
| STB-4SE-24VRL | Relay base for smoke detectors with closed-circuit relay, 24V |

## GENERAL INFORMATION

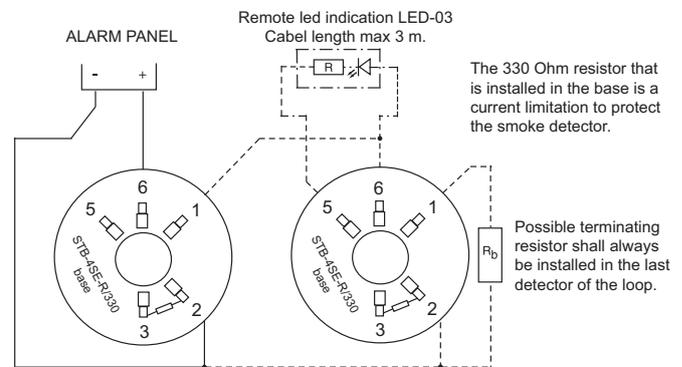
The detection chamber contains an emitter and a receiver. Normally the pulsed light-ray from the emitter does not reach the receiver. When smoke particles enter the chamber they will reflect the light-ray onto the receiver and an alarm is triggered.

The alarm is indicated by a red LED on the detector, and the alarm status continuous until manual reset is made on the control unit.

If the detector is contaminated, it will gradually go into an alarm position. In order to avoid nuisance alarms, the detector module ought to be cleaned once per year.

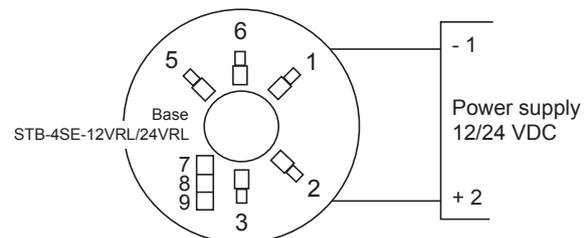
The detector is equipped with a bayonet mount, which makes it easy to fit and remove.

## WIRING DIAGRAM



The base is provided with a resistor, 330 Ohm, which will limit the current in the loop to different models of fire alarm panels. The 330 Ohm resistor should not be taken away.

Wiring diagram for smoke detector ST-P-OM with relay base STB-4SE-12VRL or STB-4SE-24VRL.



The alarm relay outputs are shown in alarm/no power on condition. Alarm relay: Change-over potential free contact, max 24V, 1A.