

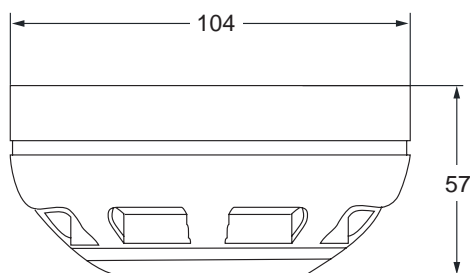
ST-P-OM OPTICAL SMOKE DETECTOR 12-24V



TECHNICAL DATA

| | |
|-------------------------------|--------------------------------------------|
| Operating voltage: | 12-24V DC |
| Operating current: | approx. 0,05 mA |
| Alarm current: | approx. 50 mA |
| Detector head: | White PC with metal net around the chamber |
| Base: | White PC |
| External LED output: | 6V - 20 mA |
| Operating temperature: | -10°C to 55°C |
| Max humidity: | 95% RH |
| Fire alarm indication: | Red LED |
| Approvals: | According to EN54-7 |
| Weight: | Ca 180g, incl. base |
| Protection: | Base IP22 |

DIMENSIONS (mm)



Mounting: 2 screws off M4

ORDERING EXAMPLE

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

GENERAL INFORMATION

The optical detector gives an early warning of a starting fire.

The detecting 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 alarm is obtained. 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. In operating position, the emitter is pulsing every 8 second to maintain a low monitoring current.

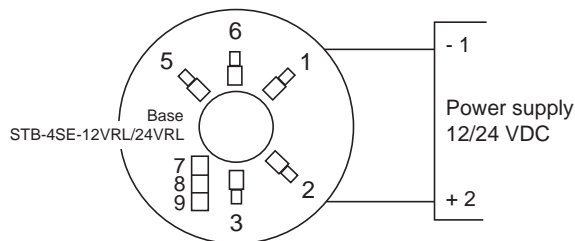
The detector design provides strong immunity to air velocities, contamination and RF interference.

The detector module fits into the base by means of the bayonet principle, enabling easy mountage of the detector.

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.

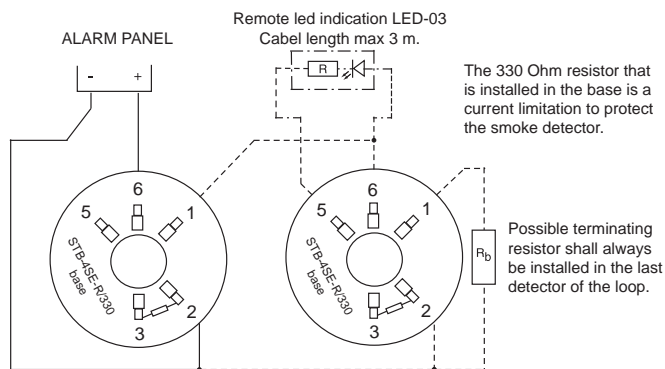
WIRING DIAGRAM

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.

When installing ST-P-OM to a fire alarm panel without a current limitation circuit, use the smoke detector base STB-4SE-R/330. See figure below.



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.