

Optical smoke detector

Description

Designation Optical Smoke Detector

Detector Type Point - smoke detector

Detection Principle Photo electric detection of light scattered in a forward direction by smoke particles

<p>OSD1101</p> <p>Optical smoke detector 1101 incl. Socket 1101 with relay railway systems approved according EN 50155</p>	
<p>OSDS65-1</p> <p>Optical smoke detector S65-1 incl. Socket with relay with E-Certification</p>	



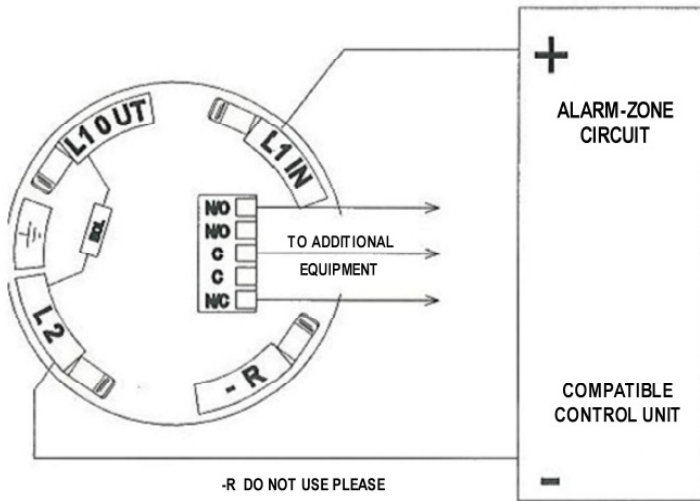
Technical Data

Sampling Frequency	Once every 3 seconds
Confirmation Frequency	Once every 2 seconds
Alarm Activation	3 consecutive sensed alarm signals needed to trigger
Supply Voltage	9 - 33 V DC
Quiescent Current	30 - 50 µA at 24 V DC
Switch-on Surge Current	115 µA at 24 V DC
Alarm Voltage	6 - 28 V DC
Normal Alarm Current	52 mA at 24 V DC
Alarm Indicator	Clear light emitting diode (LED), emitting red light
Holding Voltage	6 V DC (min.)
Holding Current	10 mA (min.)
Minimum Voltage:	12 V DC to illuminate Indicator
Alarm Reset Voltage:	1 V DC
Alarm Reset Time:	1 second
Rail Standard Verification	According EN 50155 and EN 50121
Temperature Range	- 30 °C to + 70 °C (no condensation or icing).
Humidity	0 - 95 % relative humidity (no condensation)
IP Rating	IP 22D in accordance with EN 60529
Dimensions (D x H)	Detector: 100 mm x 42 mm Detector with Standard Base: 100 mm x 50 mm Detector with Relay Base: 100 mm x 60 mm
Weights	Detector: 99 g Detector with Standard Base: 150 g Detector with Relay Base: 175 g
Fogtec ID	Optical Smoke Detector: 10000442 Standard Base: 10000473 Relay Base: 10000473



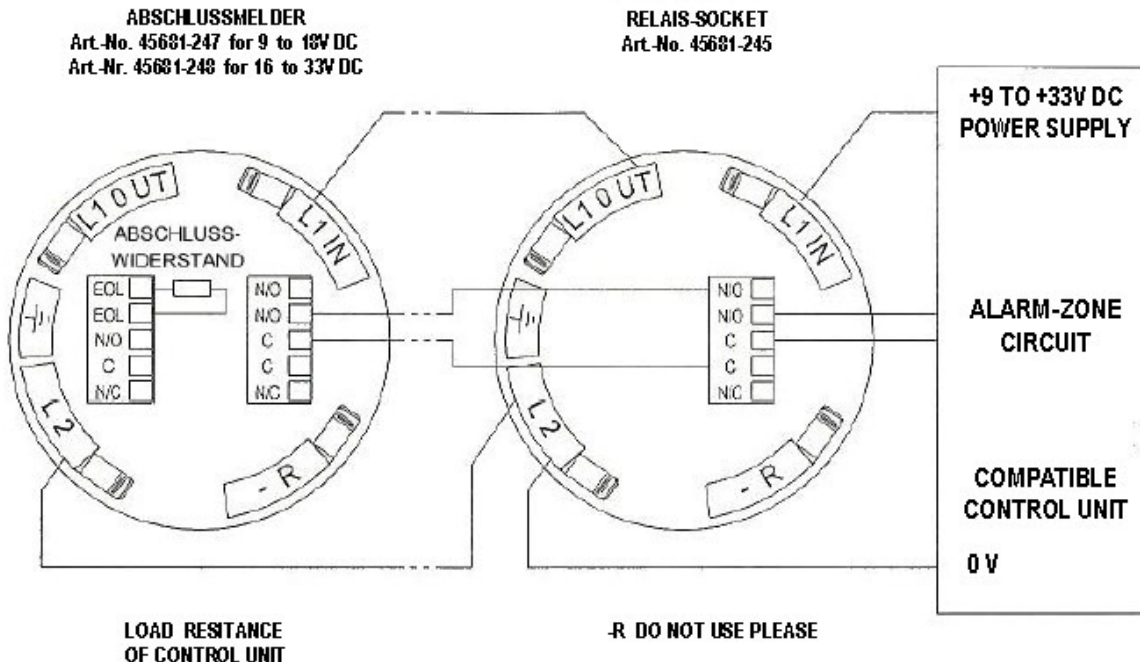
Wiring diagram:

2-wires system



- L1 IN = L1 Power supply in
- L1 OUT = L1 Power supply out
- L2 = L2 Common ground out
- R = DON'T USE!
- EOL = End of line resistance
- C = Common
- N/O = Normally open contact
- N/C = Normally closed contact

4-wires system



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