

## OA-O Interactive optical smoke detector

**OA-O** is a punctual analogic optical detector with electronic addressing, certified in respect of European product standard EN 54-7, EN 54-17 and EN 54-18. It is endowed with agreement CE mark according to ZA directive enclosure "The Construction Products" 89/106/CEE.

**OA-O** detector is compliant to European directive 2002/95/CE, concerning the use of dangerous substances inside electrical products, in particular about the use of lead.

**OA-O** detection principle is based on the reflexion of an infra-red (IR) light source on the smoke particles (Tyndall effect).

The innovative detection mechanism of the Orion series detectors, combined with the new DEF panels, assures an effective detection and reliable false alarms control. These functions, managed by the panel, give the possibility to set-up different sensitivity levels for each detector and for each technology contained (in the case of multi-technologies detector).

**The alarm threshold can be set-up from the control panel and have 8 different intervention levels, according to the exigencies and environmental characteristics where the detection is done.**

In case of short-circuit of detection line, the combined action of panel and detector, allows to rapidly isolating the interested line; no detectors are lost. The feature, obviously, is possible only on a loop.

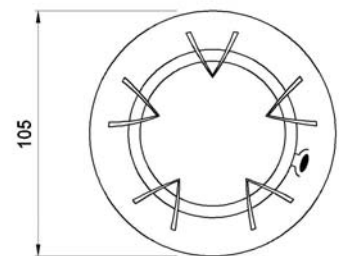
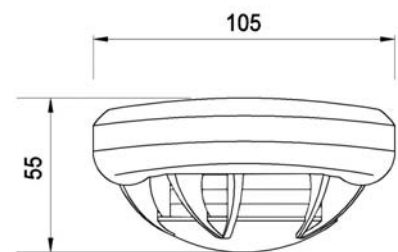
**OA-O** detector uses a self-compensation algorithm that assures a constant sensitivity in increasing of dirt level in detection chamber. Over a specific very high dirt level, the self-compensation is no more possible and, in this case, the detector sends to the panel a fault state.

To prevent this fault signalisation and to permit the maintenance, **OA-O** detector sends to the panel two maintenance messages for two different dirt levels.

The electronic addressing of detector can be made on site or in office using a dedicated tool.

**The addressing operation, combined with some automatic procedures, allows verifying the installation and wiring of detector saving time.**

The isolator inside the **OA-O** detector increases the reliability of the installation in any circumstance (line opening, short circuit, etc.)



### TECHNICAL CHARACTERISTICS

Power Supply:	15 ÷ 30 Vdc
Standby Consumption:	150 µA w/ closed isolator 500 µA w/ open isolator
Alarm Consumption:	4 mA
Sensitivity:	8 thresholds available
Cable:	2x0.8 mm STP
Dimensions (ØxH):	105 x 55 mm
Application Temp.:	-30 °C ÷ +60 °C
IP Protection:	IP32
Material:	ABS
Colour:	White RAL 9016
Weight:	130 g
Standard:	EN 54-7, EN 54-17 and EN 54-18
CE Certificate:	0333 CPD 075 109