

ORION+ Multitechnologies combined interactive detector

ORION+ is a multi-technologies punctual combined analogic detector with electronic addressing, certified in respect of European product standard EN 54-7, EN 54-5, 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.

ORION+ 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.

ORION+ is the OA-M detector evolution in multi-technologies and combines three different detection criteria:

- a standard sensitivity Tyndall effect optical and heat detector
- an high sensitivity Tyndall effect optical and heat detector
- static and rate of rise heat detector.

The two combined detection mode, optical and heat, allow to select, directly from fire detection panel, the best set-up for required exigencies.

It's possible to choose the smoke detection via the optical component or the combined operations of optical and heat detector or only the heat and rate of rise detection.

ORION+ detection principle is based on the reflexion of an infra-red (IR) light source on the smoke particles (Tyndall effect) and the reflexion of a second red light source on the same smoke particles.

The comparison of these two quantities allows a smoke type analysis, so to adapt the detector sensitivity and reduce at minimum the false alarms.

From that is possible to deduce that, the main characteristic of ORION+, is to reduce the sensitivity to parasite phenomena (like water vapour) and increase the sensitivity to real fire phenomena.

The multi-technologies ORION+ detector, via the CA3000 series panel, will allow setting up to 16 configurations using 12 optical and heat sensitivity threshold.

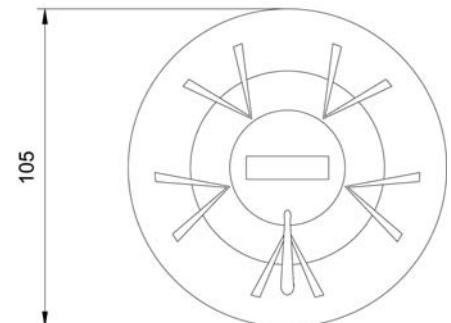
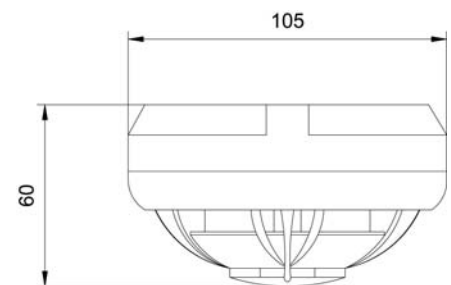
These combinations are available when ORION+ is used like an only optical detector, like an only heat detector or like a multi-criterion detector, combining the two technologies

ORION+ detector use a self-compensation algorithm that assures a constant sensitivity in increasing of dirt level in detection chamber.

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 to verify the installation and wiring of detector saving time.

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



TECHNICAL CHARACTERISTICS

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| Power Supply: | 15 ÷ 30 Vdc |
| Standby Consumption: | 150 µA w/ closed isolator 350 µA w/ open isolator |
| Alarm Consumption: | 5 mA ± 1 mA |
| Sensitivity: | 12 threshold available |
| Configurations: | 16 |
| Cable: | 2x0.8 mm STP |
| Dimensions (ØxH): | 105 x 60 mm |
| Application Temp.: | |
| Optical Mode | -30 °C ÷ +60 °C |
| Heat class A1 e A2 | -30 °C ÷ +50 °C |
| Heat class B | -30 °C ÷ +65 °C |
| IP Protection: | IP22 |
| Material: | ABS |
| Color: | White RAL 9016 |
| Weight: | 130 g |
| Standard: | EN 54-7, EN 54-5, EN 54-17, EN 54-18, A1R, A2R, BR, A1S, A2S, BS |
| CE certificate: | 0333 CPD 075227 |