

## OPTICAL SMOKE DETECTOR

### AE/C5-OP

#### Description

Optical smoke detector that operates according to the principle of scattered light (Tyndall effect). It is indicated to detect fires in their first phase of smoke, before flames form or dangerous temperature increases occur.

Formed by a dark chamber that incorporates an emitter and a receiver that detect the presence of smoke particles inside.

The detector has 2 light indicators (LED) that visibly indicate its operating status at rest and alarm. In addition, a remote action indicator can be connected, connecting it to the detector base.

Once the detector is activated, the alarm remains locked, being necessary to make a momentary cut of the power supply to be able to replace it.

Manufactured and certified according to EN 54-7: 2000.

Due to the detection method of this type of detectors its installation in clean environments is recommended.



#### Assembly and wiring

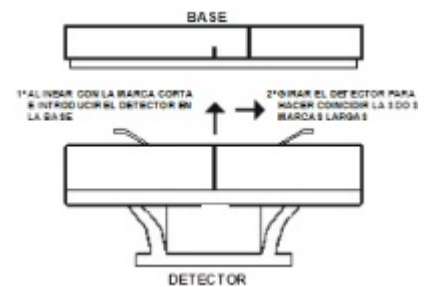
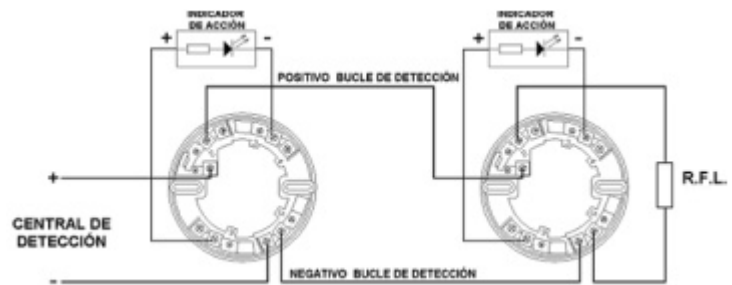
##### Assembly:

The detector base can be mounted directly on false ceiling surfaces, or on electrical junction boxes octagonal (75mm, 90mm or 100mm), round (75mm) or square (100mm), without the need for a mechanical adapter.

##### Wiring:

Disconnect the supply voltage from the detection loop before installing the detector base.

- Connect the positive input of the detection loop to terminal 2 (positive input of the detection loop). Terminal 2 has two separate connectors, one for the input loop and the other for the output loop.
- Connect the negative input of the detection loop to terminal 5 (negative input of the detection loop). Terminal 5 has two separate connectors, one for the input loop and the other for the output loop.
- Connect the output positive on the free connector of terminal 2 with the input positive of terminal 2 of another detector or with the end of line. This allows open line detection.
- Proceed with the negative of the detection loop in the same way indicated in the previous point but with terminal 5.
- If a remote action indicator is to be installed, connect the positive of the indicator to terminal 6 and the negative to terminal 3.



#### TECHNICAL CHARACTERISTICS

Supply voltage:	15 ~ 35Vdc
Standby consumption:	35 µA
Alarm consumption:	70mA maximum
Power cable:	2 X 1.5 mm <sup>2</sup>
Temperature range:	-10°C to + 50° C ambient temperature.
Humidity range:	Relative humidity from 10% to 90% without condensation.
Stabilization time:	60 s
Indicator lights:	Operation: green flashes every 3 ~ 5 s
Alarm:	Red steady
Remote alarm output:	Led type action indicator, 6Vdc
Dimensions:	Ø: 99mm
Height with base included:	46mm
Housing material:	white ABS.



EN 54-7:2000