



OA05

Interactive optical smoke detector

- **Standard EN54-7 Ed2000**
- **Security addressing**
- **CE certified according to CPD**

The **Optical smoke detector** analyzes an atmosphere by reflection of a light on the particles of smoke according to **TYNDALL effect**. It detects especially the **cold and visible smoke particles** (0, 3µm to 2µm) produced in the early stages of a fire. The threshold of response of alarm is regulated to obtain the value $m=0, 2db/m \pm 0, 03$ according to standard **EN54-7**.

OA05 includes a developed technology (**microprocessors, smd components**) which means precision and high reliability. A specific head detection fixed by a **single ceiling base**.

OA05 is dedicated to **interactive fire detection panels**.

The smoke detector **OA05** is designed to be installed under flat ceiling with heights ranging between **2, 5 m and 12 m** and this, in healthy and more or less ventilated buildings.

The maximum supervised surface is **80m² by detector**; however it is preferable to refer to the local rules of installation recommended in particular when the characteristics of the installation differ **from those stated above**. **Eight levels of sensitivity** are available while programming the fire detection panel (from 0,1dB/m to 0,35 dB/m).



Main characteristics

- Photoelectric scattering (Tyndall effect)
- 1 remote alarm indicator output
- Lockable
- Standard EN54-7
- Cable section max 2,5mm²
- 8 levels sensitivity setting (0,1 dB/m to 0,35 dB/m)
- Base isolator (option)
- Base relay (option)
- **Constant sensitivity** thanks to auto correction

Power supply specification

Main supply voltage	12Vdc to 28 Vdc
Nominal main supply voltage	24 Vdc
Quiescent current (24 Vdc)	140µA without base isolator / 240µA with base isolator
Alarm current (24 Vdc)	5mA ± 1mA
Fault current (24 Vdc)	140µA
Remote alarm indicator output	Individual command: 5mA ± 1mA

Mechanical characteristics

Unit weight	130g
Unit dimensions (in mm)	H:55 D:104
Unit row material	ABS
Unit colour	White
IP rating	IP32
Mounting mode	Base
Fixing	- distance between centres: 50mm to 60mm - under ceiling: 2 screws Ø 4

Climatic characteristics

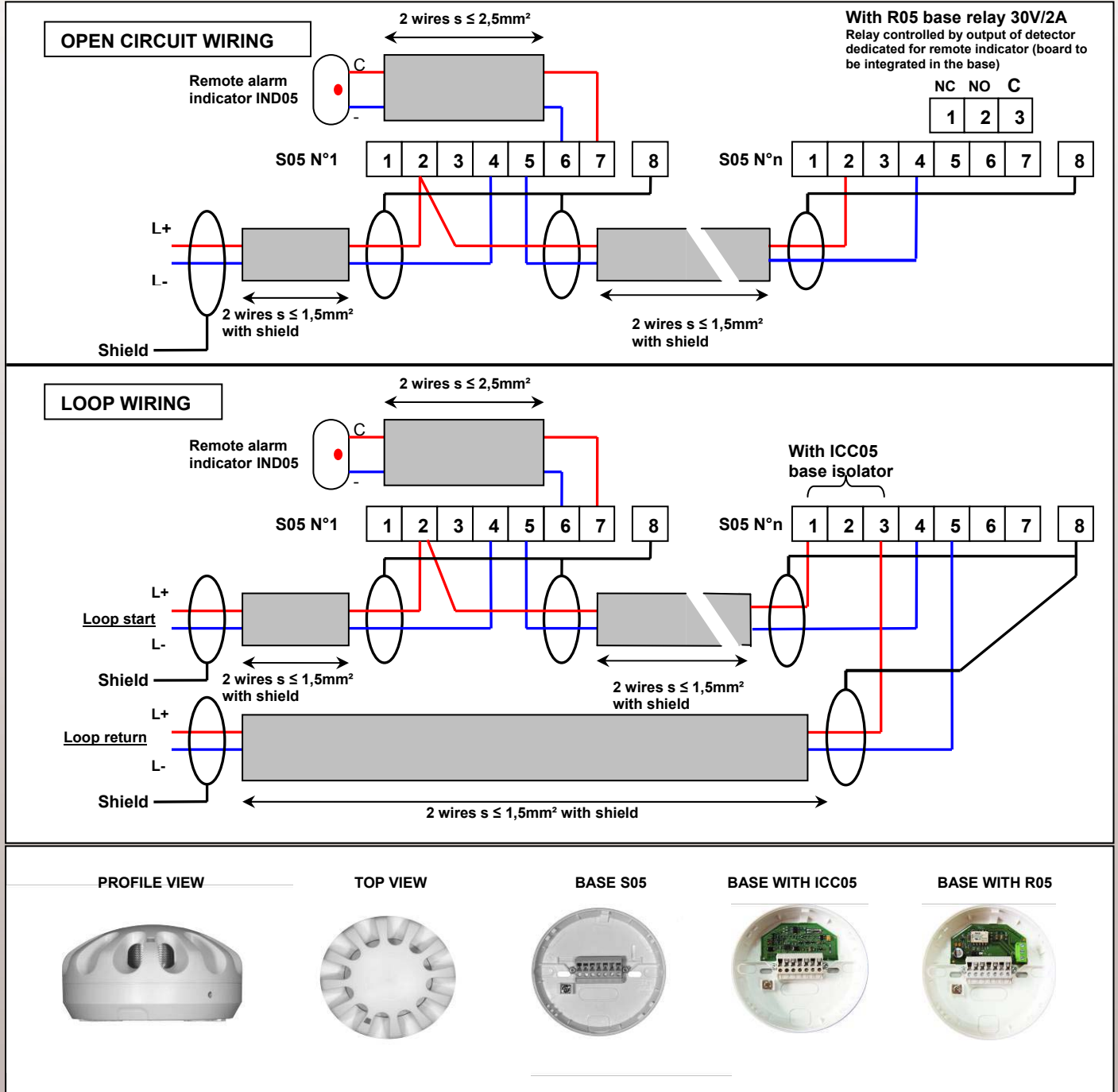
Operating temperature	-30°C to +60°C
Storage temperature	+10°C to +50°C
Operating relative humidity	≤ 93%
Storage relative humidity	≤ 85%



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CONNECTION



REFERENCE

OA05

S05

ACCESSORIES

IND05

SOUND05

ICC05

STRAPP

R05

CS05

BRI

BRI/EM

GAV

DESCRIPTION

Interactive optical smoke detector

Base detector

Remote alarm indicator

Base with internal sounder 95dB

Base isolator

Plug in connection board for 05 detectors

Base relay

Protection plate for base S05

Universal base with gland holes for 05 detectors range

Waterproof universal base with gland holes for 05 detectors range

Protection grid