



MA05

Interactive optical/heat detector

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

MA05 temperature heat/optical smoke detector consists of a photo electric light scatter made sensitive by a thermal element. This detector detects visible smokes with or without heat emission.

The threshold of alarm of the heat element is 68°C.

MA05 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 $m=0, 2\text{db/m}\pm 0, 03$ according to standard **EN54-7**.

MA05 includes a developed technology (**microprocessors, smd components**) which means precision and high reliability. A specific head detection fixed by a **single ceiling base**.

MA05 is dedicated to **interactive fire detection panels**.

The smoke detector **MA05** 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)
- Optical element made sensitive by thermal element
- 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

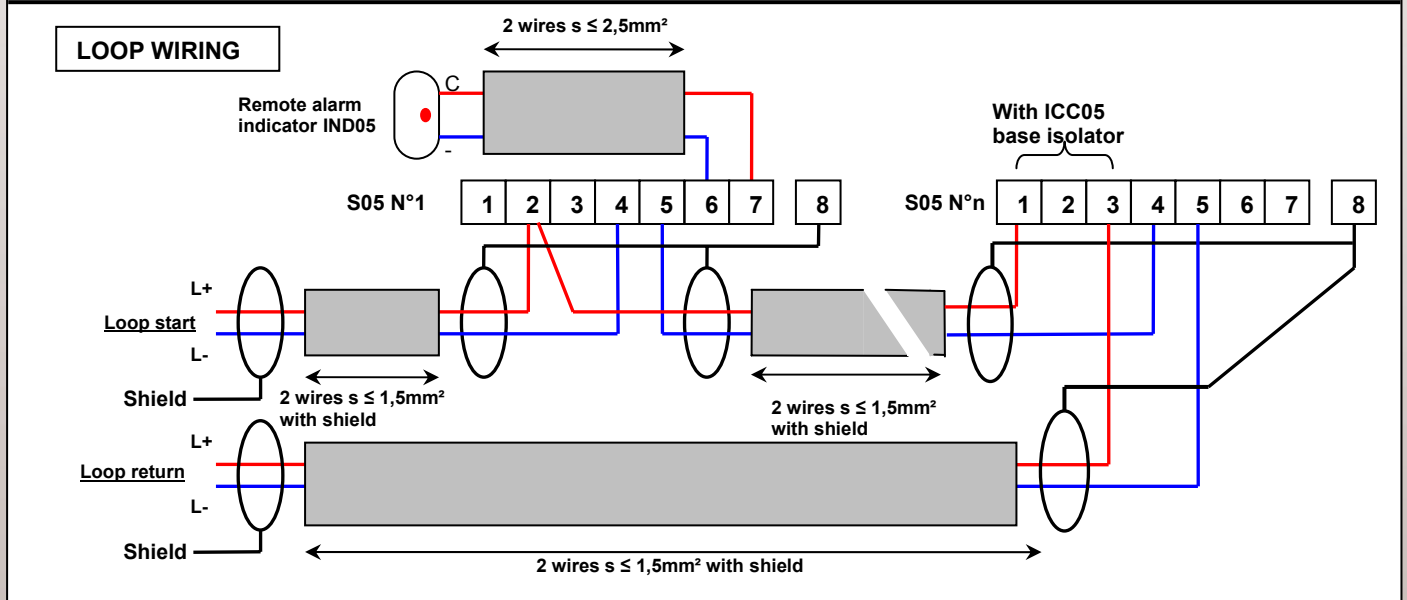
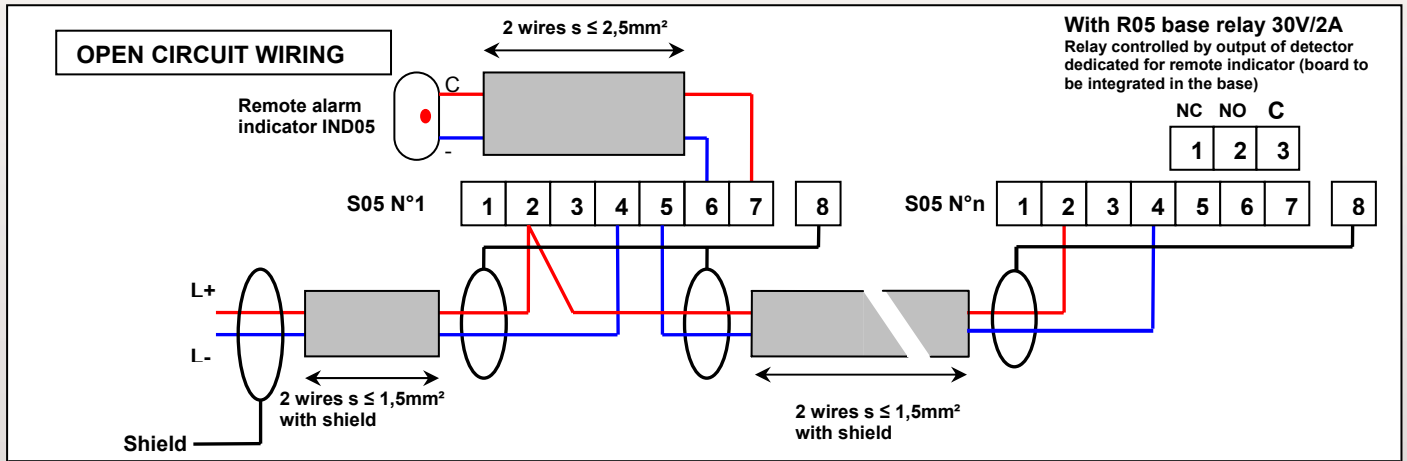
Operating temperature	-30°C to +50°C
Storage temperature	+10°C to +50°C
Operating relative humidity	≤ 93%
Storage relative humidity	≤ 85%



MA05

Interactive optical/heat detector

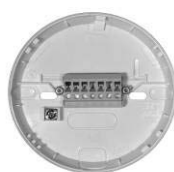
CONNECTION



PROFILE VIEW



BASE S05



BASE WITH ICC05



BASE WITH R05



REFERENCE

- MA05
- S05
- ACCESSORIES
- IND05
- SOUND05 + S05
- ICC05
- STRAPP
- R05
- CS05
- BRI/EM
- BRI
- GAV

DESCRIPTION

- Interactive optical/heat detector
- Base detector
- Remote alarm indicator
- Base with internal sounder 95dB.
- Base isolator
- Plug in connection board for cable $\geq 1,5\text{mm}^2$
- Base relay
- Protection plate for base S05
- Universal base with glands for 05 range
- Waterproof universal base with glands for 05 range
- Protection grid

