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=0,2db/m±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*** *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%

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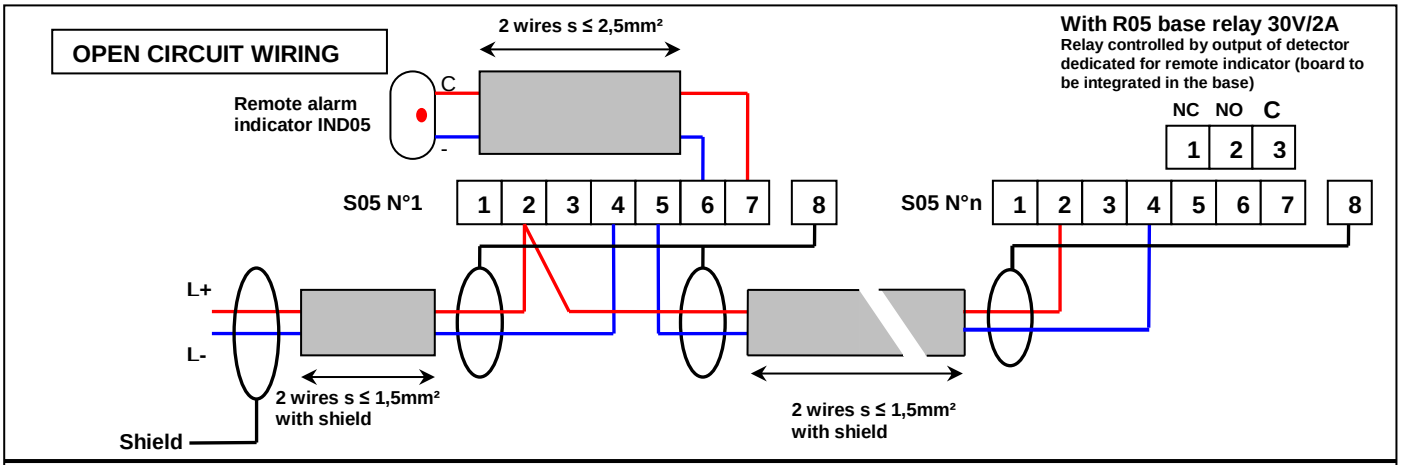
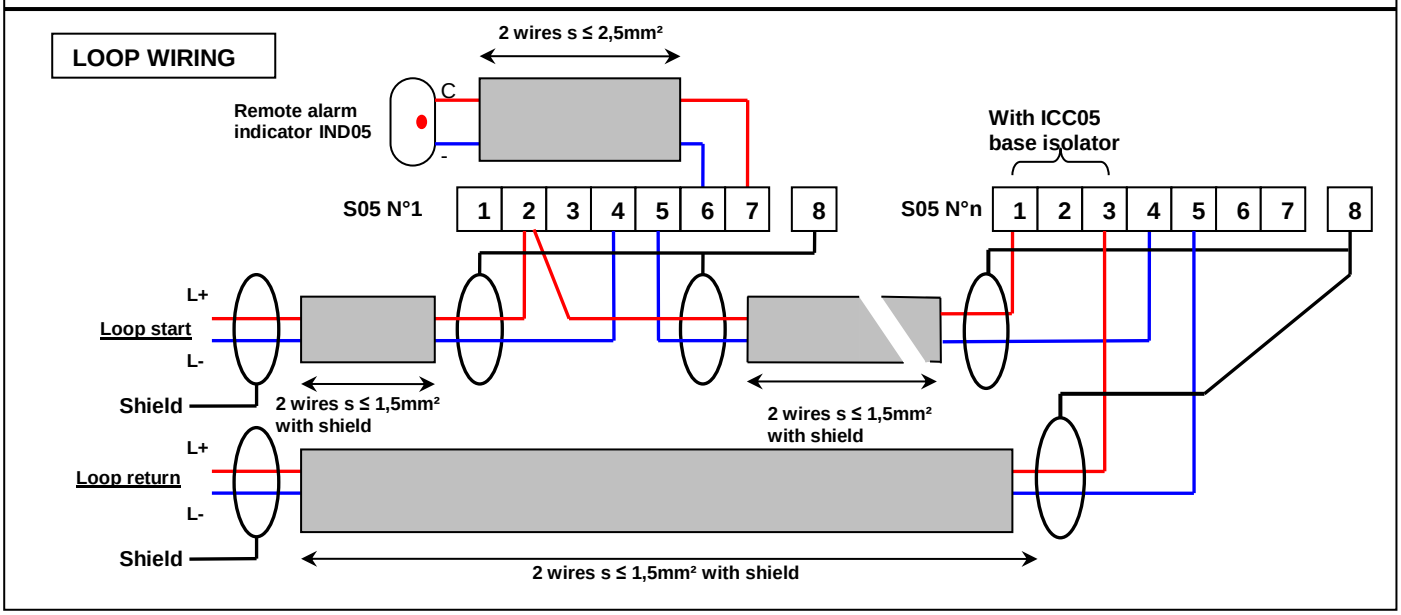
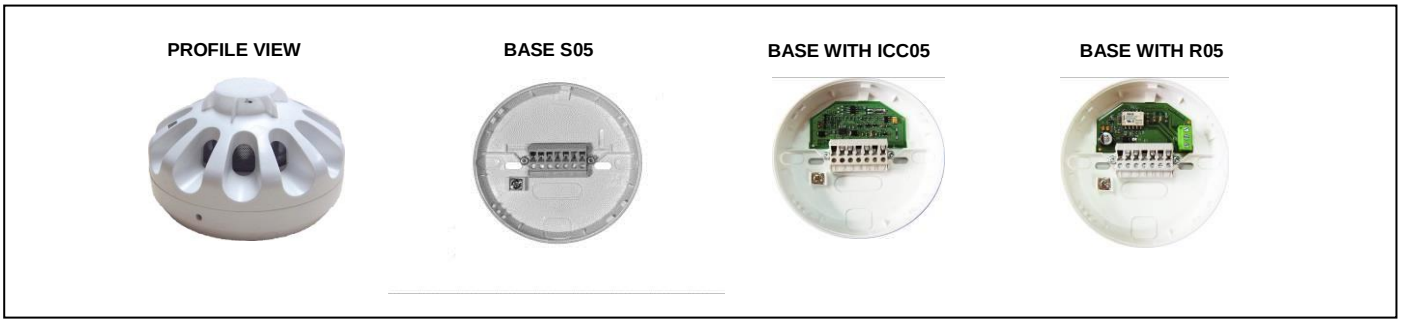
CONNECTION







REFERENCE	*DESCRIPTION*
MA05	Interactive optical/heat detector
S05	Base detector
ACCESSORIES	
IND05	Remote alarm indicator
SOUND05 + S05	Base with internal sounder 95dB
ICC05	Base isolator
STRAPP	Plug in connection board for cable ≥1,5mm²
R05	Base relay
CS05	Protection plate for base S05
BRI/EM	Universal base with glands for 05 range
BRI	Waterproof universal base with glands for 05 range
GAV	Protection grid

Non contractual document

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