



BTG05

Air duct detector housing

BTG05 is an analysis chamber equipped with analogue or conventional detector for the control of the **air ducts**.

BTG05 withdraws the air circulating through the duct (Pitot tube principle) and carries out an **analysis** of the protected local through its optical smoke sensor.


The **BTG05** is adapted for an air circulation speed comprised between **1m/s and 10 m/s**.

For ducts equipped with **filter**, it is necessary to make sure that the particles attended to be analysed by **BTG05** are not filtered (**approximately 1 µm**).

BTG05 has a specific version for both **analogue** and **conventional** fire detection systems.

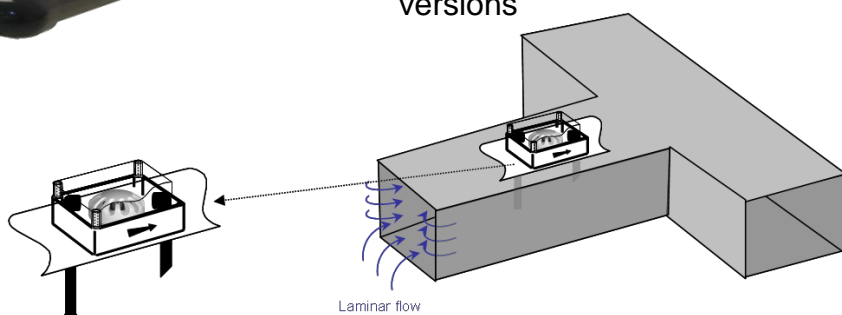
Size of the ducts supported by BTG05:

- **Rectangular shape:** 350mm < length < 500mm
200mm < width < 500mm
- **Square shape** : 350mm < side < 500mm
- **Circle shape** : 330mm < diameter < 500mm



Main characteristics

- Tyndall effect (detector)
- Pitot tube principle (aspiration)
- Analogue and conventional versions



Laminar flow
From 1 to 10 m/s

Electric specifications		
	Conventional version	Analogue version
Main supply voltage	13Vdc to 27 Vdc	12Vdc to 28 Vdc
Nominal main supply voltage	20 Vdc	24 Vdc
Quiescent current (20 Vdc)	25µA	140µA without base isolator / 240µA with base isolator
Alarm current (20 Vdc)	32mA	5mA
1 programmable open collector	No	40V/100mA
1 programmable address	No	Yes
1 Alarm activated open collector	40V/100mA	
Mechanical characteristics		
Unit weight	0,560 Kg	
Total unit dimensions	300 x 150 x 300 mm	
Unit colour	Soft Gray (transparent cover)	
Protection class	IP55	
Climatic characteristics		
Operating temperature	-10°C to +60°C	
Storage temperature	+10°C to +50°C	
Operating relative humidity	≤ 93%	
Storage relative humidity	≤ 85%	

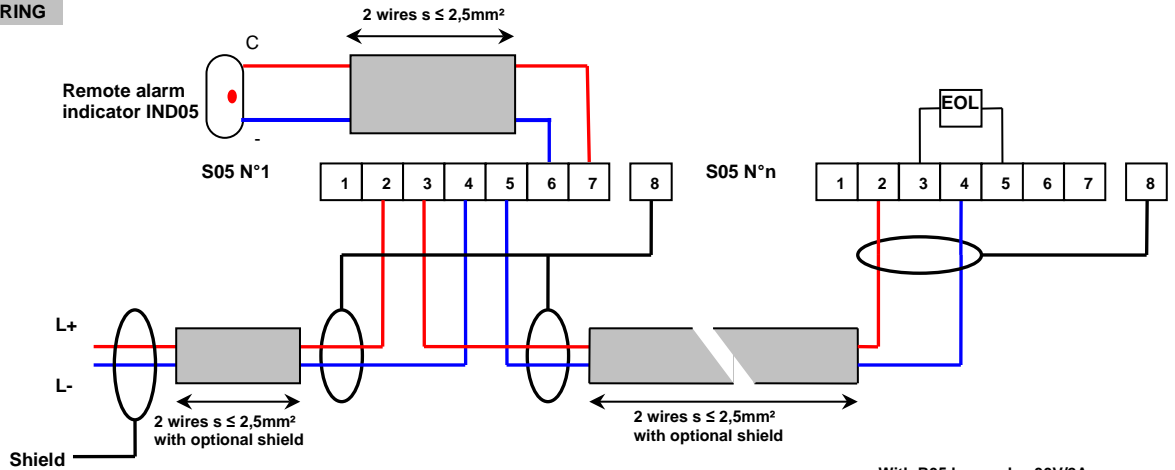




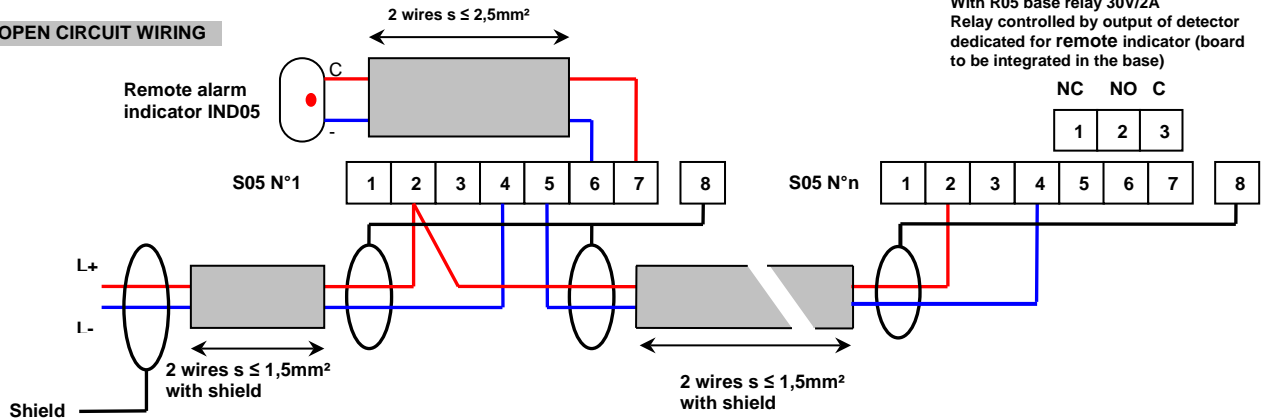
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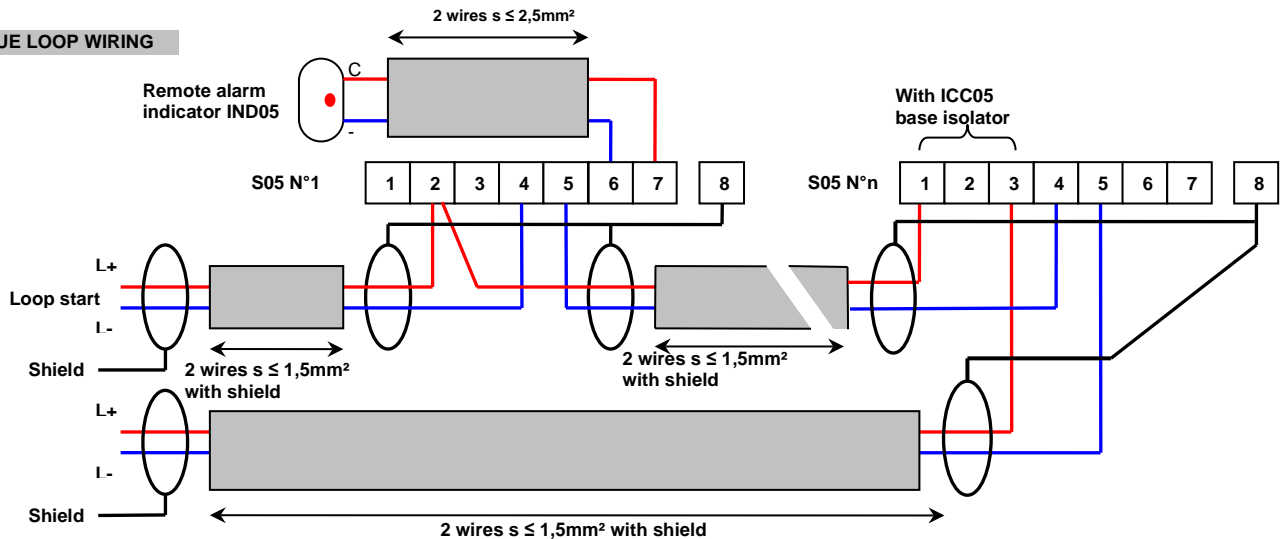
CONVENTIONAL WIRING



ANALOGUE OPEN CIRCUIT WIRING



ANALOGUE LOOP WIRING



REFERENCE

BTG05

OC05+S05

OA05+S05

ACCESSORIES

IND05

DESCRIPTION

Conventional/analogue air duct detector chamber (without detector)

Conventional optical smoke detector

Interactive optical smoke detector

Remote alarm indicator for conventional 05 range

