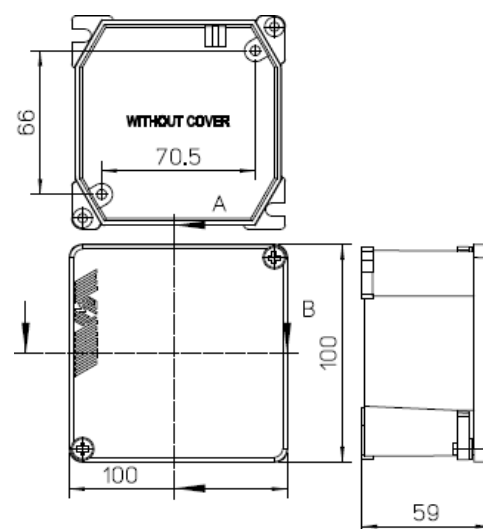


IRON/CA3S

SERIAL and 4÷20 mA

CO GAS DETECTOR (CARBON MONOXIDE)



The IRON/CA3S carbon monoxide detectors, use a professional-type electrochemical cell sensor.

They are designed to be connected to analytic control panels with **4÷20 mA** inputs (like MODULA 4 and MODULA 8) or to digital control panels via **RS485** serial connection (like MODULA 40 and MODULA 128).

IRON detectors are suitable for use in all industrial and commercial applications where the detection of low concentrations of carbon monoxide (CO) in the air is required.

IRON detectors are particularly suitable for CO detection in covered or underground car parks, garages and thermal power plants.

The head of the IRON/CA3S sensor module uses a high quality and precision electrochemical cell combined with an industrial type control electronics. The replaceable head of the IRON /CA3S sensor module allows for fast and reliable system maintenance and has operating life of 5 years.

The aluminium alloy container makes the detector particularly suitable for environments with strong chemical aggression, including the marine one, giving it a high mechanical resistance.

Thanks to the high selectivity, the IRON / CA3S detectors are resistant to non-combustible gases or vapours often present in industrial environments.

Features

- ▲ Linear communication line 4÷20 mA (3 wires) and digital RS485
- ▲ Wide range of power supply (10÷30 Vdc)
- ▲ Electrochemical sensor
- ▲ Low energy detector
- ▲ Corrosion and impact resistant aluminium container
- ▲ Degree of protection IP65
- ▲ Fault signalling during stabilization time or in case of sensor failure
- ▲ Standard version for 1 type of gas and on request with different measuring ranges

AVAILABLE VERSIONS

B40-IRON/CA3S IP65 4÷20 mA 10/30 Vdc CO

COMPATIBLE CONTROL PANELS

MODULA4	Control panel with linear line 4÷20 mA - 4 zones
MODULA8	Control panel with linear line 4÷20 mA - 8 zones
MODULA40	Control panel with linear line 4÷20 mA - 8 zones and 32 zones on RS485 communication line
MODULA128	Control panel with linear line 4÷20 mA - 8 zones and 128 zones on RS485 communication line

Compatible with all central units equipped with 4-20mA input

 www.beltdetection.com

IRON/CA3S

GAS DETECTOR CO (CARBON MONOXIDE)

Applications

- ▲ Industry, tertiary
- ▲ Underground parking, garages
- ▲ Craft and school laboratories
- ▲ Kitchens, canteens, catering
- ▲ Detection of gas leaks near gas powered hot air generators
- ▲ Thermal power plants
- ▲ Chemical laboratories

Technical specifications

POWER SUPPLY

Power supply voltage: 10 +30 Vdc

Electrical absorption: Max 34mA @ 24 Vdc; Stand-by 15 mA @ 24 Vdc

WORKING ENVIRONMENT

Operating temperature: -10 / + 50°C

Relative humidity: 5 ÷ 95% without condensation

Degree of protection: IP65

MECHANICS

Dimensions: 130 x 100 x 59 mm

Weight: 520 gr

Color: Grey (RAL 7040)

Body in corrosion resistant aluminium alloy; stainless steel screws and sensor head
Epoxy painting

Mounting: Wall

SENSOR

Type: Electrochemical

Stabilization time: < 30 seconds

Measuring range: 0-300 ppm
Based on specific needs, it is possible to provide customized measuring ranges (max 500 ppm)

Average life: 5 years

Further characteristics: High selectivity, resistant to exposure to interfering gases and vapours

COMMUNICATIONS

Type: linear 4 ÷ 20 mA, 3 wires, digital RS485

Range: 4 ÷ 20 mA

Shutdown: 0 mA

Failure: < 2 mA

Overrange: 22 mA
Short circuit output protection

COMPLIANCE

EN 50270
EN 50271
EN 50545-1
EN45544-4

WARRANTY Two (2) years



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The manufacturer can change without prior notice product specifications and details.
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