# WPDBR/CA3 carbon monoxide gas detector







WPDBR/CA3 gas detector is suited for all industrial and tertiary applications where detection of low concentrations of carbon monoxide (CO) is needed.

WPDBR/CA3 is particularly suited for carbon monoxide (CO) detection in car parks and garages.

The CA3 replaceable sensor module fitted inside the B20-WPDBR/CA3 detector is equipped with an high-quality and high-precision electrochemical cell combined with an industrial type electronic control circuit which guarantees a fast and reliable maintenance of plants.

The CA3 replaceable sensor module has a typical operating life of 5 years. The detector counts the working time of the module and advises in advance the need to replace the sensor module by means of a blue led blinking.

The wide supply voltage range (10 ÷ 30 Vdc) allows the detector to be used with both 12V and 24V control units. The solid IP55 enclosure protects the detector against dust and water.

### **Ordering Information**

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#### Models

B20-WPDBR/CA3 Carbon monoxide (CO)

#### Accessories and spares

B95-CA3 CA3 module - Carbon monoxide (CO)

#### Compatible controllers

B20-UN2A UNIKA 2 control unit B20-UN4A UNIKA 4 control unit

Compatible with all 4÷20 mA threshold control units

#### Features

- Fixed tresholds current output (0, >4, >12, >20 mA)
- Wide supply voltage range (10 ÷ 30 Vdc)
- Replaceable plug-in sensor module with long life (5 years) professional electrochemical cell sensor
- 2 solid-state 100 mA pre-alarm/alarm relay outputs
- Buzzer for local audible pre-alarm/alarm warning
- IP55 enclusure rating

## **Specifications**

#### Power

10÷30 Vdc Power supply:

Current consumption (stand-by): 50 mA @ 10 Vdc: 30 mA @ 30 Vdc Current consumption (alarm): 105 mA @ 10 Vdc; 45 mA @ 30 Vdc

Environmental

Operating temperature: -10 / +40°C Stockage temperature: +10 / +30°C

Relative Humidity (RH): 20÷95% non-condensing

Enclosure rating: IP55

Mechanical

Dimensions: Ø 69 x 59 mm

Weight: 171 gr

Grey RAL 7035 Color: Housing: PC-ABS UL94-VO Wall mounted Mounting:

Sensor module

Sensor type: Electrochemical cell

Sensor module expected life: 5 years (replaceable)

Alarm thresholds

Pre-alarm: 50 ppm 100 ppm Alarm:

Current output

Fixed thresholds 0, >4, > 12, > 20 mA Current output:

Fault: < 2 mA Stand-by: >4 mA Pre-alarm: > 12 mA

> 20 mA Alarm:

Relay outputs

Solid-state relay, C-NO, 100 mA max Pre-alarm:

Solid-state relay, C-NO, 100 mA max Alarm:

Local indications

Pre-alarm (intermmitent) / Alarm (continuous) Buzzer:

Pre-alarm (blinking) / Alarm (fixed) Red LED:

Yellow LED: Fault condition

Blue LED: Indication of CA3 sensor module life

EMC (EN 50270) - EN 50271 **Approvals** 

Double threshold 50 - 100 ppm

# WPDBR/CA3

# Typical applications

- Underground car parks
- Garages



BELT DETECTION S.r.l. Strada del Fornacino, 108/b 10040 Leinì (TO) - Italy Tel. (+39) 011.9966033 e-mail: info@beltdetection.com



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