

WPDBR/CA3

CARBON MONOXIDE GAS DETECTOR



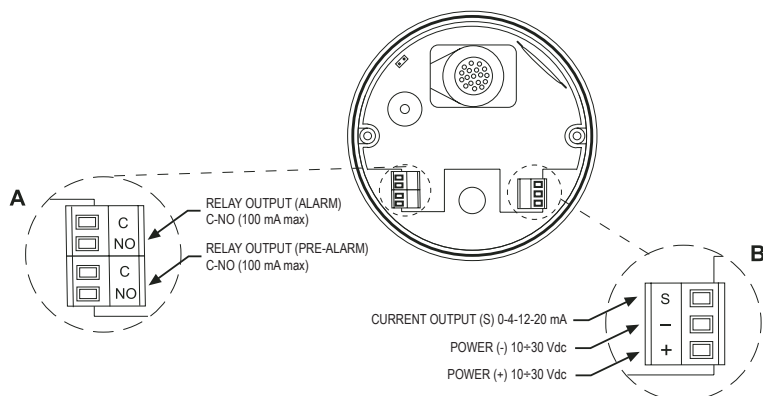
WPDBR/CA3 gas detector is suited for all industrial and tertiary applications where detection of low concentrations of carbon monoxide (CO) is needed.

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.

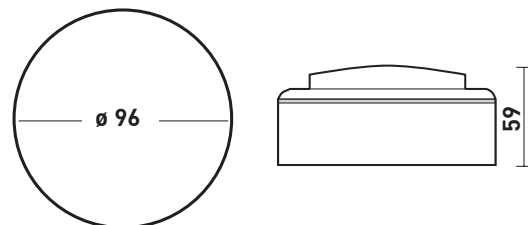
The CA3 replaceable sensor module has a typical operating life of 5 years. The detector counts the working time of the module and advises in advance the need to replace the sensor module by means of a blue led blinking.

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.



Features

- ▲ Fixed thresholds 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 enclosure rating



AVAILABLE VERSIONS

B20-WPDBR/CA3 Carbon monoxide gas detector (CO)

Accessories and spares

B95-CA3 CA3 module - Carbon monoxide (CO)

COMPATIBLE CONTROL PANELS

ASTRA control panels family:

B20-AS1A	DIN rail - for 1 gas detector
B20-AS2A	DIN rail - for 2 gas detectors
B20-AS1B	Rear panel - 48x96 mm - for 1 gas detector
B20-AS2B	Rear panel - 48x96 mm - for 2 gas detectors
B20-AS2C	Rear panel - 144x144 mm-for 2 gas detectors
B20-AS4C	Rear panel - 144x144 mm-for 4 gas detectors
B20-AS6C	Rear panel - 144x144 mm-for 6 gas detectors

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



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Typical applications

- ▲ Underground car parks
- ▲ Garages

Specifications

POWER	
Power supply:	10÷30 Vdc
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°C / +40°C
Stockage temperature:	+0°C / +20°C
Relative Humidity (RH):	20÷90% non-condensing
Enclosure rating:	IP55
MECHANICAL	
Dimensions:	Ø 96 x 59 mm
Weight:	171 gr
Color:	Grey RAL 7035
Housing:	PC-ABS UL94-V0
Mounting:	Wall mounted
SENSOR MODULE	
Sensor type:	Electrochemical cell
Sensor module expected life:	5 years (replaceable)
ALARM THRESHOLDS	
Pre-alarm:	50 ppm
Alarm:	100 ppm
CURRENT OUTPUT	
Current output:	Fixed thresholds 0, > 4, > 12, > 20 mA
Fault:	< 2 mA
Stand-by:	> 4 mA
Pre-alarm:	> 12 mA
Alarm:	> 20 mA
RELAY OUTPUTS	
Pre-alarm:	Solid-state relay, C-NO, 100 mA max
Alarm:	Solid-state relay, C-NO, 100 mA max
LOCAL INDICATIONS	
Buzzer:	Pre-alarm (intermittent) / Alarm (continuous)
Red LED:	Pre-alarm (blinking) / Alarm (fixed)
Yellow LED:	Fault condition
Blue LED:	Indication of CA3 sensor module life
APPROVALS	
	EMC (EN 50270)



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This data sheet replaces previous ones.

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

Descriptions and illustrations are shown only in order to aid the customer.

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