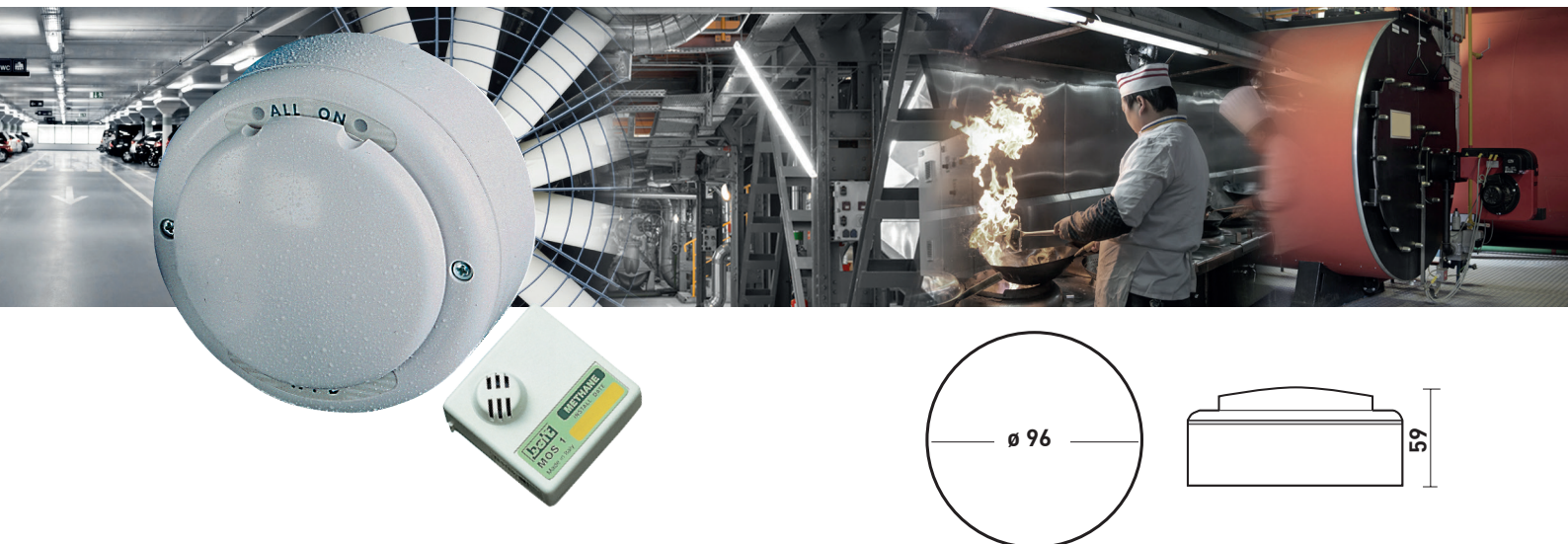


Double threshold gas detector

WPDRIL/MOS

with plug-in sensor module



WPD/MOS gas detectors use plug-in replaceable catalytic bead sensor modules (MOS). MOS modules are available for combustible gases.

The detectors are designed to be used both in industry and tertiary premises, in all areas not classified as potentially explosive by ATEX directive.

Features

- High quality sensors provide reliable protection, accurate performance and long life
- Plug-in replaceable sensor module
- Factory tested and calibrated, ready for installation
- Output with two fixed thresholds in negative current
20/30 mA with 2.2 Kohm end-of-line resistor
(or to be adapted to the control unit used).
- Alarm setpoint selection (see table)
- Sensor fault indication
- Low current consumption
- IP55 enclosure rating

Ordering Information

24 Vdc power supply

- B20-WPDRIL24BR/M1 with MOS1 - Methane (CH₄)
- B20-WPDRIL24BR/M2 with MOS2 - L.P.G.
- B20-WPDRIL24BR/M4 with MOS4 - Hydrogen
- B20-WPDRIL24BR/M5 with MOS5 - Gasoline vapors

Accessories and spares

- B95-MOS1 MOS1 module - Methane (CH₄)
- B95-MOS2 MOS2 module - L.P.G.
- B95-MOS4 MOS4 module - Hydrogen (H₂)
- B95-MOS5 MOS5 module - Gasoline vapors
- B98-BG1 Gas bottle 50 ml propane-butane
(for test combustible gas)

Specifications

Power

Power input: 24 Vdc [-15% / +10%]
Power consumption: see table

Environmental

Operating temperature: see table
Relative humidity: see table
Enclosure rating: IP55

Mechanical

Dimensions: Ø 69 x 59 mm
Weight: 173 gr
Color: Light grey (RAL 7035)
Housing: PC/ABS UL94-V0 self-extinguishing
Mounting: wall mounted

Sensor

Sensor: Plug-in interchangeable sensor module
Type: Catalytic bead (combustible gases)

Life expectancy: 5 years
Stabilization time: < 8 hours (combustible gases)

Warm-up time: < 1 minute
Alarm setpoints: see table
Further features: Highly selective
Sensor fault indication

Gas	Sensor module	Response time (T)	Relative humidity*	Operating temperature	Power consumption	Pre-alarm setpoint	Alarm setpoint
24Vdc							
Methane CH ₄	MOS1	< 15 s	5÷95%	-10/+50°C	60 mA	6% L.E.L.	10% L.E.L.
L.P.G.	MOS2	< 15 s	5÷95%	-10/+50°C	60 mA	6% L.E.L.	10% L.E.L.
Hydrogen H ₂	MOS4	< 15 s	5÷95%	-10/+50°C	60 mA	6% L.E.L.	10% L.E.L.
Gasoline vapors**	MOS5	< 15 s	5÷95%	-10/+50°C	60 mA	12% L.E.L.	20% L.E.L.

* non-condensing

** Pentane

Transmitter

Transmitter: 2 fixed threshold transmitter
Pre-alarm: 20 mA
Alarm: 30 mA

LED indicators

Green: Power on/sensor module correctly installed
Red: Alarm/sensor module not installed or defective

Approvals

EMC (EN 50270)

Double threshold gas detector

WPDRIL/MOS

Typical applications

- Industry, tertiary areas
- Underground parking areas, garages
- Handicraft and school laboratories
- Industrial kitchens, canteens and restoration facilities
- Gas detection nearby gas powered air heaters
- Boiler rooms
- Chemical laboratories and other areas classified as non hazardous



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. All data herewith enclosed is the copyright protected.