

CO2 sensor CS-11 and CO2 transmitter MV-CAN

Digital CO2 sensor and CAN bus transmitter for measuring the carbon dioxide concentration in mobile applications

- ☑ Digital CO2 sensor for precise carbon dioxide measurement
- ☑ Advantageous design for use on mobile machines
- ☑ CAN protocol for easy integration into CAN bus systems
- ☑ MV-CAN as a top hat rail module for integration into control cabinets



Technical data CS-11

Features

Housing	Plastics
Mounting	Hanging

Measuring element and parameters

Measuring principle	Optical, NDIR*1
Sample rate	2 s
Measuring accuracy	± 50 ppm

Electrical connection

Protocol	I ² C bus
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Operating conditions

Operating temperature	-0°C ... 50°C 0...85 % rH
Storage temperature	-30°C ... 70 °C 0...85 % rH

Measuring range

- ☑ 0...5,000 ppm

Fields of application

- ☑ Vehicles (e.g. bus, train, HGV)
- ☑ and many more mobile work machines

*1NDIR: Non-dispersive infrared absorption measurement

Technical modifications reserved

Sales and consulting
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Technical data MV-CAN

Features

Housing	Plastics
Shape	Top hat rail module for integration into control cabinets

Measuring element and parameters

Operating voltage	10...48 V
Sample rate	2 sec.

Electrical connections

CAN protocol	CANopen 2.0 A according to CiA DS 404
Physical layer	According to ISO 11898
Optionally	EDS file

Operating conditions

Operating temperature	-40°C ... +80°C
Storage temperature	-40°C ... +120 °C

Fields of application

- ☑ Building automation
- ☑ Refrigeration, climate and ventilation technology
- ☑ Greenhouses

Certifications

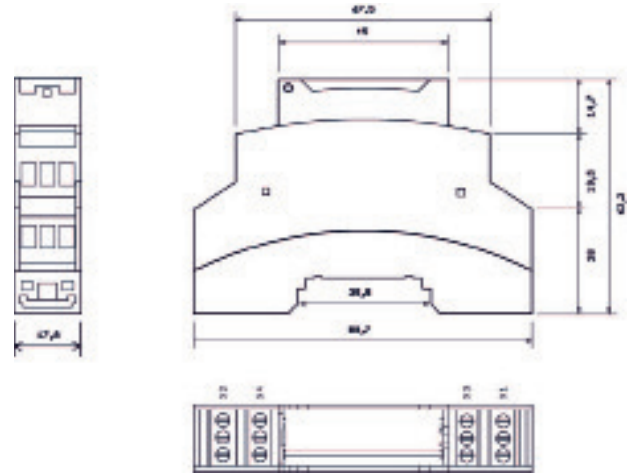
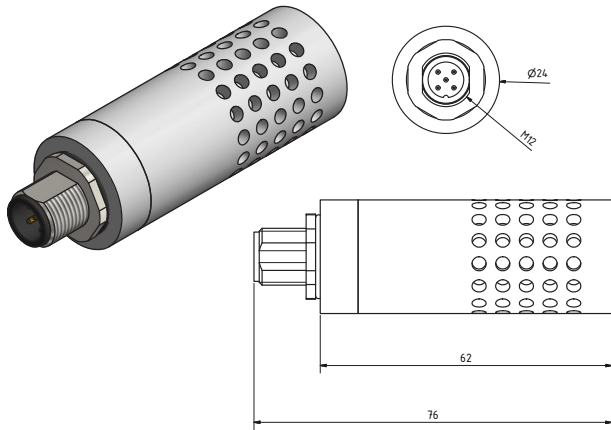
- ☑ EN 50082-1
- ☑ EN 50082-2

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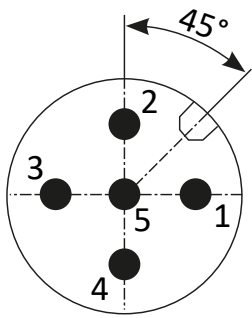
CS-11

Design and dimensions

MV-CAN



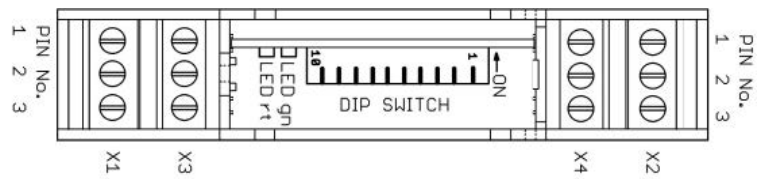
Pin assignment



The CO2 sensor is designed for communication with I2C.

The M12 connector must be assigned as follows:

- 1- SCL
- 2- VCC
- 3- GND
- 4- SDA
- 5- Screen



Factory-set, customised Node ID and Baud rate

Order

Scope of delivery

- CO2 sensor CS-11
- Cable for connecting the CO2 sensor CS-11 with the top hat rail module MV-CAN
- Transmitter MV-CAN

Options for your order

- Product combination of CS-11 and MV-CAN
- CO2 Sensor CS-11 as a single product (without MV CAN)
- Transmitter MV-CAN as a single product (without CS-11)

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