CAN Bus pressure transmitter DS-CAN-01

Versatile, media-compatible pressure sensor with excellent reliability in very harsh environments

- ☑ Sensor cell based on a stainless steel diaphragm with piezoresistive bridge circuit made of poly-Si
- ☑ integrated sensor signal processing (CMOS)
- ☑ Media compatible with hydraulic oil, diesel, brake fluid and many more
- ☑ Pressure ranges up to 4,000 bar
- ☑ High long-term stability through electronic sensor calibration and digital data storage
- ☑ Fast and easy modification of Node ID and baud rate using Layer Setting Service

Technical data

Charactersistics

Type of measurement	Relative pressure against ambient pressure or against internal atmosphere

Measuring element and parameters

Measuring resolution	10 Bit
Accuracy	class 0.5 at room temperature
Total error	<1.5 % FS (-10...+ 80°C)
Sample rate	From 5 ms

Electrical connection

CAN Protocol	CANopen 2.0 A
Physical Layer	according to DIN 11898
Operation voltage	12...27V ± 20%
Option	EDS file

Operating conditions

Operating temperature	-40°C...+80°C
Storage temperature	-40°C...+120°C
Shock resistance	30 g, Duration: 14 ms at 25 °C
Vibration resistance	10 g at 20 to 1000 Hz

Standard pressure ranges

in kPa

- ☑ 0...500
- ☑ 0...1.000
- ☑ 0...2.000
- ☑ 0...5.000
- ☑ 0...10.000
- ☑ 0...35.000
- ☑ 0...50.000
- ☑ 0...70.000
- ☑ 0...200.000
- ☑ 0...400.000

in bar

- ☑ 2...4.000 (Si on stainless steel)
- ☑ -1...2 (Si)

Applications

- ☑ Hydraulic
- ☑ Environmental engineering
- ☑ Process control
- ☑ air Conditioning
- ☑ Agricultural machinery
- ☑ Automotive
- ☑ Heating systems
- ☑ Industrial robots
- ☑ Pneumatic

Certifications

The device complies with the following standards:

- ☑ EN 50082-1
- ☑ EN 50082-2

CAN Bus

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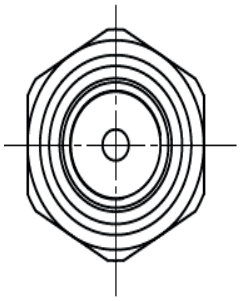
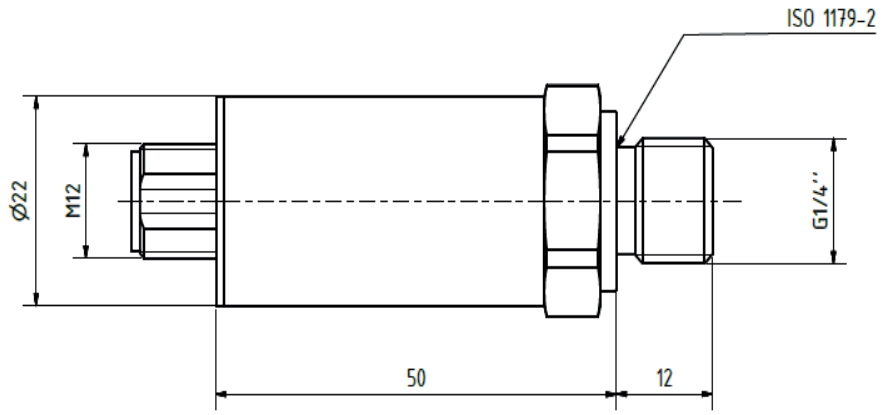
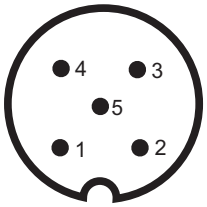
Design and dimensions





Pin assignment



1 Please ***don't*** occupy the programming pin!
2 Operating voltage 12 ... 27 V
3 GND/CAN_GND
4 CAN_H
5 CAN_L

Looking at the pins

Order

Scope of delivery

CAN Bus pressure transmitter DS-CAN-01

Options for your order

Desired pressure range as indicated
Other pressure ranges available on request
Other electrical connections up on request
Other process connections up on request

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