

# 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

### Characteristics

Type of measurement	Relative pressure against ambient pressure or against internal atmosphere
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### 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	-10...+80 °C
Storage temperature	-20°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...35.000  |
| ☑ 0...1.000  | ☑ 0...50.000  |
| ☑ 0...2.000  | ☑ 0...70.000  |
| ☑ 0...5.000  | ☑ 0...200.000 |
| ☑ 0...10.000 | ☑ 0...400.000 |

### in bar

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

## Applications

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

## Certifications

The device complies with the following standards:

- ☑ EN 50082-1
- ☑ EN 50082-2

Technical modifications reserved

Sales and consulting  
ZILA GmbH

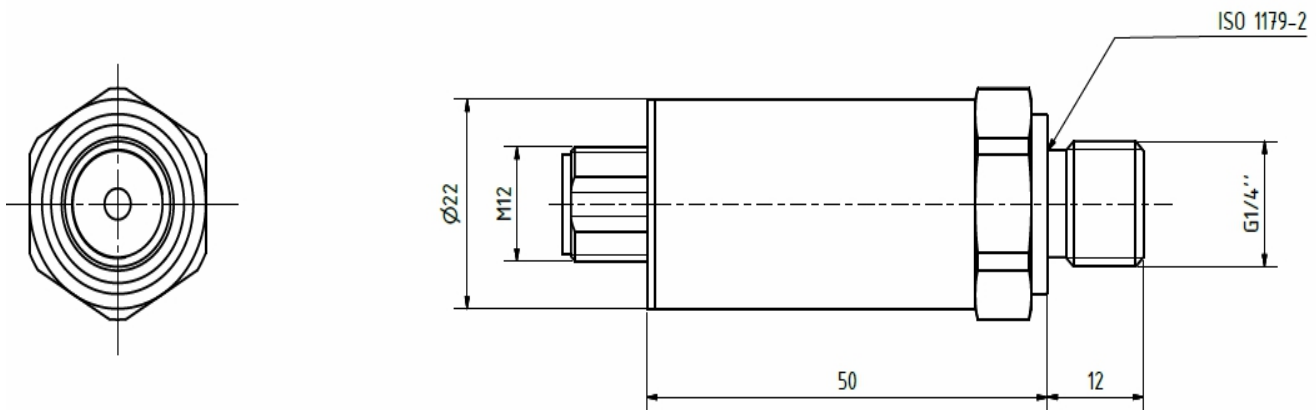
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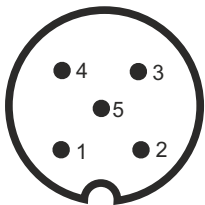
  
www.zila.de

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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
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### 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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