

# Pressure Sensor

## FXCA201

Part Number



- FDA compliant
- Robust stainless steel housing with IP69K

InoxSens

### Technical Data

#### Sensor-specific data

Measuring Range	0...10 bar
Measurement Type	absolute
Maximum overload pressure	42 bar
Bursting pressure	60 bar
Medium	Liquids, gases
Long-term stability	< ± 0,1 %
Reproducibility	< ± 0,05 %
Linearity Deviation	± 0,1 %
Measuring error	< ± 0,3 %

#### Environmental conditions

Temperature of medium	-20...125 °C
Ambient temperature	-10...85 °C
Storage temperature	-25...85 °C
EMC	DIN EN 61326-1
Shock resistance per DIN IEC 68-2-27	30 g / 11 ms
Vibration resistance per DIN IEC 60068-2-6	10 g (10...2000 Hz)

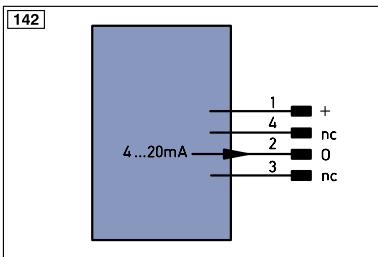
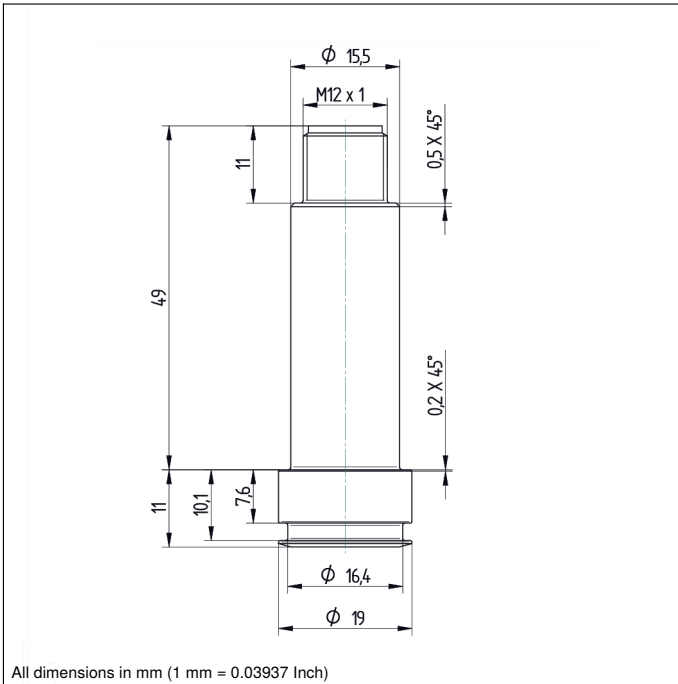
#### Electrical Data


Supply Voltage	9...28 V DC
Current Consumption (U <sub>b</sub> = 24 V)	< 21 mA
Response Time	1 ms
Analog Output	4...20 mA
Current Output Load Resistance	< 500 Ohm
Short Circuit Protection	yes
Reverse Polarity Protection	yes
Protection Class	III

#### Mechanical Data

Housing Material	1.4404
Material in contact with media	1.4435
Degree of Protection	IP68/IP69K
Connection	M12 × 1; 4-pin
Process Connection	19 mm dia., flush mounted

Analog Output	●
Connection Diagram No.	142
Suitable Connection Technology No.	21


**Legend**

<b>+</b> Supply Voltage +	<b>PT</b> Platinum measuring resistor	<b>ENa</b> Encoder A
<b>-</b> Supply Voltage 0 V	<b>nc</b> not connected	<b>ENb</b> Encoder B
<b>~</b> Supply Voltage (AC Voltage)	<b>U</b> Test Input	<b>AMIN</b> Digital output MIN
<b>A</b> Switching Output (NO)	<b>U</b> Test Input inverted	<b>AMAX</b> Digital output MAX
<b>Ā</b> Switching Output (NC)	<b>W</b> Trigger Input	<b>AOK</b> Digital output OK
<b>V</b> Contamination/Error Output (NO)	<b>O</b> Analog Output	<b>SY In</b> Synchronization In
<b>ṽ</b> Contamination/Error Output (NC)	<b>O-</b> Ground for the Analog Output	<b>SY OUT</b> Synchronization OUT
<b>E</b> Input (analog or digital)	<b>BZ</b> Block Discharge	<b>OUT</b> Brightness output
<b>T</b> Teach Input	<b>AWV</b> Valve Output	<b>M</b> Maintenance
<b>Z</b> Time Delay (activation)	<b>a</b> Valve Control Output +	<b>rsv</b> reserved
<b>S</b> Shielding	<b>b</b> Valve Control Output 0 V	
<b>RxD</b> Interface Receive Path	<b>SY</b> Synchronization	<b>Wire Colors according to DIN IEC 757</b>
<b>TxD</b> Interface Send Path	<b>E+</b> Receiver-Line	<b>BK</b> Black
<b>RDY</b> Ready	<b>S+</b> Emitter-Line	<b>BN</b> Brown
<b>GND</b> Ground	<b>≡</b> Grounding	<b>RD</b> Red
<b>CL</b> Clock	<b>SnR</b> Switching Distance Reduction	<b>OG</b> Orange
<b>E/A</b> Output/Input programmable	<b>Rx+/-</b> Ethernet Receive Path	<b>YE</b> Yellow
 <b>IO-Link</b>	<b>Tx+/-</b> Ethernet Send Path	<b>GN</b> Green
<b>PoE</b> Power over Ethernet	<b>Bus</b> Interfaces-Bus A(+)/B(-)	<b>BU</b> Blue
<b>IN</b> Safety Input	<b>La</b> Emitted Light disengageable	<b>VT</b> Violet
<b>OSSD</b> Safety Output	<b>Mag</b> Magnet activation	<b>GY</b> Grey
<b>Signal</b> Signal Output	<b>RES</b> Input confirmation	<b>WH</b> White
<b>Bl..D +/-</b> Ethernet Gigabit bidirect. data line (A-D)	<b>EDM</b> Contactor Monitoring	<b>PK</b> Pink
<b>EN0 r542</b> Encoder 0-pulse 0-0 (TTL)	<b>ENAr542</b> Encoder A/Ā (TTL)	<b>GNYE</b> Green/Yellow
	<b>ENBr542</b> Encoder B/B̄ (TTL)	