

Pressure Sensor

FXCA201

Part Number

InoxSens



- FDA compliant
- Robust stainless steel housing with IP69K

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
Pressure response time (t90)	< 1 ms
Measuring error (total)	+ 0,3 %
Hysteresis	< ± 0,01 %
Linearity Deviation	< ± 0,1 %
Zero-point error	< ± 0,1 %
Repeat Accuracy	< ± 0,01 %
Temperature coefficient zero-point	<± 0,01% /10K
Temperature coefficient range	<± 0,06% /10K
Reproducibility	< ± 0,05 %

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)

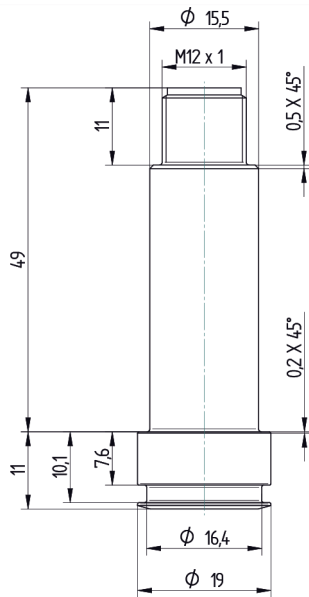
Electrical Data

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

Mechanical Data

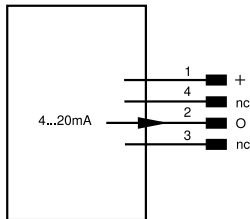
Sensor element	Stainless steel membrane
Housing Material	1.4404
Material in contact with media	1.4435
Degree of Protection	IP68/IP69K *
Connection	M12 × 1; 4-pin
Process Connection	19 mm dia., flush mounted

Analog Output	●
Connection Diagram No.	142
Suitable Connection Equipment No.	2



All dimensions in mm (1 mm = 0.03937 Inch)

142



Legend

+	Supply Voltage +	nc	Not connected	ENBRS422	Encoder B/B (TTL)
-	Supply Voltage 0 V	U	Test Input	ENA	Encoder A
~	Supply Voltage (AC Voltage)	Ü	Test Input inverted	ENB	Encoder B
A	Switching Output (NO)	W	Trigger Input	AMIN	Digital output MIN
Ä	Switching Output (NC)	W-	Ground for the Trigger Input	AMAX	Digital output MAX
V	Contamination/Error Output (NO)	O	Analog Output	AOK	Digital output OK
Ÿ	Contamination/Error Output (NC)	O-	Ground for the Analog Output	SY In	Synchronization In
E	Input (analog or digital)	BZ	Block Discharge	SY OUT	Synchronization OUT
T	Teach Input	Amv	Valve Output	OLT	Brightness output
Z	Time Delay (activation)	a	Valve Control Output +	M	Maintenance
S	Shielding	b	Valve Control Output 0 V	rsv	Reserved
RxD	Interface Receive Path	SY	Synchronization	Wire Colors according to DIN IEC 60757	
TxD	Interface Send Path	SY-	Ground for the Synchronization	BK	Black
RDY	Ready	E+	Receiver-Line	BN	Brown
GND	Ground	S+	Emitter-Line	RD	Red
CL	Clock	±	Grounding	OG	Orange
E/A	Output/Input programmable	SnR	Switching Distance Reduction	YE	Yellow
IO-Link	IO-Link	Rx+/-	Ethernet Receive Path	GN	Green
PoE	Power over Ethernet	Tx+/-	Ethernet Send Path	BU	Blue
IN	Safety Input	Bus	Interfaces-Bus A(+)/B(-)	VT	Violet
OSSD	Safety Output	La	Emitted Light disengageable	GY	Grey
Signal	Signal Output	Mag	Magnet activation	WH	White
BL_D+/-	Ethernet Gigabit bidirect. data line (A-D)	RES	Input confirmation	PK	Pink
ENo RS422	Encoder 0-pulse 0/Ü (TTL)	EDM	Contact Monitoring	GNYE	Green/Yellow
PT	Platinum measuring resistor	ENARS422	Encoder A/A (TTL)		