

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
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)

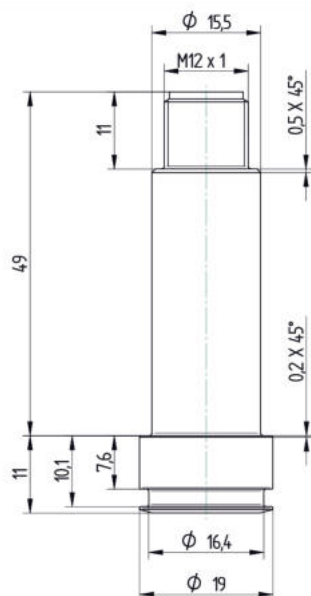
Electrical Data

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

Mechanical Data

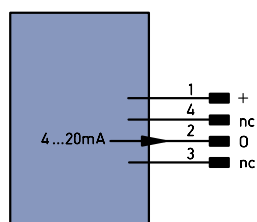
Sensor element	Stainless steel diaphragm
Housing Material	1.4404
Material in contact with media	1.4435
Degree of Protection	IP68/IP69K
Connection	M12 × 1; 4-pin
Process Connection	19 mm dia., flush mounted

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



All dimensions in mm (1 mm = 0.03937 Inch)

142



Legend

+	Supply Voltage +	PT	Platinum measuring resistor
-	Supply Voltage 0 V	nc	not connected
~	Supply Voltage (AC Voltage)	U	Test Input
A	Switching Output (NO)	Ū	Test Input inverted
Ā	Switching Output (NC)	W	Trigger Input
V	Contamination/Error Output (NO)	W-	Ground for the Trigger Input
Ū	Contamination/Error Output (NC)	O	Analog Output
E	Input (analog or digital)	O-	Ground for the Analog Output
T	Teach Input	BZ	Block Discharge
Z	Time Delay (activation)	AWV	Valve Output
S	Shielding	a	Valve Control Output +
RxD	Interface Receive Path	b	Valve Control Output 0 V
TxD	Interface Send Path	SY	Synchronization
RDY	Ready	SY-	Ground for the Synchronization
GND	Ground	E+	Receiver-Line
CL	Clock	S+	Emitter-Line
E/A	Output/Input programmable	±	Grounding
	IO-Link	SnR	Switching Distance Reduction
PoE	Power over Ethernet	Rx+/-	Ethernet Receive Path
IN	Safety Input	Tx+/-	Ethernet Send Path
OSSD	Safety Output	Bus	Interfaces-Bus A(+)/B(-)
Signal	Signal Output	La	Emitted Light disengageable
BL-D+/-	Ethernet Gigabit bidirect. data line (A-D)	Mag	Magnet activation
EN0.05422	Encoder 0-pulse 0-0 (TTL)	RES	Input confirmation
		EDM	Contacting Monitoring

ENAR5422	Encoder A/Ā (TTL)
EN0.05422	Encoder B/B̄ (TTL)
ENa	Encoder A
ENb	Encoder B
AMIN	Digital output MIN
AMAX	Digital output MAX
AOK	Digital output OK
SY In	Synchronization In
SY OUT	Synchronization OUT
OLt	Brightness output
M	Maintenance
rsv	reserved

Wire Colors according to IEC 60757

BK	Black
BN	Brown
RD	Red
OG	Orange
YE	Yellow
GN	Green
BU	Blue
VT	Violet
GY	Grey
WH	White
PK	Pink
GNYE	Green/Yellow