

Pressure Sensor

FFAP162

Part Number

UniBar



- Highly visible output indicator
- Simple operation via the display

UniBar pressure sensors measure the relative pressure in closed systems of any medium in the range -1...600 bar.

UniBar pressure sensors are very easy to use thanks to the integrated display. The highly visible switching status display enables the rapid localization of affected sensors for maintenance processes.



Technical Data

Sensor-specific data

Measuring Range	0...160 bar
Maximum overload pressure	320 bar
Bursting pressure	640 bar
Adjustable Range	4...100 %
Medium	Liquids, gases
Switching Hysteresis	2 %
Measuring error	< ± 0,5 %
Temperature Drift	0,025 %/K

Environmental conditions

Temperature of medium	-25...80 °C
Ambient temperature	-25...80 °C
EMC	DIN EN 61326-2-3
Shock resistance per DIN IEC 68-2-27	30 g / 11 ms
Vibration resistance per DIN IEC 60068-2-6	20 g (10...2000 Hz)

Electrical Data

Supply Voltage	16...32 V DC
Current Consumption (U _b = 24 V)	< 60 mA
Switching Outputs	1
Response Time	30 ms
Relay Output/Switching Current (24 VDC)	< 1 A
Analog Output	4...20 mA Press
Resolution	10 bit
Current Output Load Resistance	< 500 Ohm
Short Circuit Protection	yes
Reverse Polarity Protection	yes
Protection Class	III

Mechanical Data

Setting Method	Menu
Housing Material	PBT; PC; FKM
Material Control Panel	Polyester
Material in contact with media	1.4435; 1.4404
Degree of Protection	IP67 *
Connection	M12 × 1; 5-pin
Process Connection	G 1/2"

Safety-relevant Data

MTTFd (EN ISO 13849-1)	769,77 a
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Analog Output	●
Final value, analog output: scalable 2:1	●
Relay NO/NC switchable	●

Connection Diagram No.	1002
Control Panel No.	A05
Suitable Connection Technology No.	35

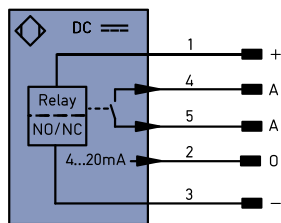
* Tested by wenglor

Complementary Products

Seal G1/2" ZH5G002



1002



01 = Switching Status Indicator
20 = Enter Button
22 = UP Button
60 = Display
99 = Right button

+	Supply Voltage +	Platinum measuring resistor
−	Supply Voltage 0 V	nc not connected
~	Supply Voltage (AC Voltage)	U Test Input
Ü	Test Input inverted	W Trigger Input
A	Switching Output (NO)	O Analog Output
Ä	Switching Output (NC)	O− Ground for the Analog Output
V	Contamination/Error Output (NO)	BW Block Discharge
Ȳ	Contamination/Error Output (NC)	AZZ Valve Output
E	Input (analog or digital)	a Valve Control Output +
T	Teach Input	b Valve Control Output 0 V
Z	Time Delay (activation)	SY Synchronization
S	Shielding	E+ Receiver-Line
RxD	Interface Receive Path	S+ Emitter-Line
TxD	Interface Send Path	≡ Grounding
RDY	Ready	SnR Switching Distance Reduction
GND	Ground	Rx+/- Ethernet Receive Path
CL	Clock	Tx+/- Ethernet Send Path
E/A	Output/Input programmable	Bus Interfaces-Bus A(+)/B(-)
	IO-Link	La Emitted Light disengageable
PoE	Power over Ethernet	Mag Magnet activation
IN	Safety Input	RES Input confirmation
QSSD	Safety Output	EDM Contactor Monitoring
Signal	Signal Output	ENAR542 Encoder A/A (TTL)
Bl-D/-	Ethernet Gigabit bidirect. data line (A-D)	ENB542 Encoder B/B (TTL)
EN0RS42	Encoder 0-pulse 0-0 (TTL)	

Wire Colors according to
DIN IEC 757

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