## **Pressure Sensor**



A wenglor H. 15 BAR D D D

- Highly visible output indicator
- Piggable with flush mounting
- Simple operation via the display
- Space-saving process connection thanks to small pressure membrane

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**

Toolinioal Bata	
Sensor-specific data	
Measuring Range	0100 bar
Maximum overload pressure	200 bar
Bursting pressure	400 bar
Adjustable Range	4100 %
Medium	Liquids, gases
Switching Hysteresis	2 %
Measuring error	< ± 0,5 %
Temperature Drift	0,025 %/K
Environmental conditions	
Temperature of medium	-2580 °C
Ambient temperature	-2580 °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 (102000 Hz)
Electrical Data	- <b>3</b> ( ,
Supply Voltage	1632 V DC
Current Consumption (Ub = 24 V)	< 60 mA
Switching Outputs	1
Response Time	30 ms
Switching Output/Switching Current	< 250 mA
Switching Output Voltage Drop	< 2 V
Analog Output	420 mA Press
Resolution	10 bit
Current Output Load Resistance	< 500 Ohm
Short Circuit Protection	ves
Reverse Polarity Protection	yes
Protection Class	) jes
Mechanical Data	
	Menu
Setting Method 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; 4-pin
Process Connection	G 1/2"
Safety-relevant Data	1001 51 -
MTTFd (EN ISO 13849-1)	1201,51 a
Analog Output	
Final value, analog output: scalable 2:1	
PNP NO/NC switchable	
Connection Diagram No.	533
Control Panel No.	A05
Suitable Connection Technology No.	21
Suitable Mounting Technology No.	904

\* Tested by wenglor

**Uni**Bar

**Fluid Sensors** 







Legen	a	PT	Platinum measuring resistor	ENA	Encoder A
+	Supply Voltage +	nc	not connected	ENв	Encoder B
-	Supply Voltage 0 V	U	Test Input	Amin	Digital output MIN
~	Supply Voltage (AC Voltage)	Ū	Test Input inverted	Амах	Digital output MAX
А	Switching Output (NO)	W	Trigger Input	Аок	Digital output OK
Ā	Switching Output (NC)	0	Analog Output	SY In	Synchronization In
V	Contamination/Error Output (NO)	0-	Ground for the Analog Output	SY OUT	Synchronization OUT
V	Contamination/Error Output (NC)	BZ	Block Discharge	OLT	Brightness output
E	Input (analog or digital)	Awv	Valve Output	м	Maintenance
Т	Teach Input	а	Valve Control Output +		
Z	Time Delay (activation)	b	Valve Control Output 0 V		
S	Shielding	SY	Synchronization	Wire Colors according to DIN IEC 757	
RxD	Interface Receive Path	E+	Receiver-Line		
TxD	Interface Send Path	S+	Emitter-Line	BK	Black
RDY	Ready	÷	Grounding	BN	Brown
GND	Ground	SnR	Switching Distance Reduction	RD	Red
CL	Clock	Rx+/-	Ethernet Receive Path	OG	Orange
E/A	Output/Input programmable	Tx+/-	Ethernet Send Path	YE	Yellow
0	IO-Link	Bus	Interfaces-Bus A(+)/B(-)		Green
PoE	Power over Ethernet	La	Emitted Light disengageable	BU	Blue
IN	Safety Input	Mag	Magnet activation		Violet
OSSD	Safety Output	RES	Input confirmation	GY	Grey
Signal	Signal Output	EDM	Contactor Monitoring	WH	White
BI_D+/-	Ethernet Gigabit bidirect. data line (A-D)	ENARS422	Encoder A/Ā (TTL)		Pink
ENO RS422	Encoder 0-pulse 0-0 (TTL)	ENBRS422	Encoder B/B (TTL)	GNYE	Green/Yellow

