Pressure Transmitter MODS

Piezoresistive
Shock and vibration resistant
Operating voltage 12 - 32 V DC
Measurement ranges -1 - 600 bar

060210_MODS
12.2025

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Characteristics

- Robust
- Compact
- Resistant to pressure peaks
- Overload-protected
- With reverse polarity protection
- Limitation of power loss
- Electronic calibration
- Stainless steel
- Hermetically-sealed thin film measuring cell
- Can be used for all standard pneumatic and hydraulic fluids
- Various thread, signal and connecting options available
- Approvals: German Lloyd (GL) for marine applications
  CE Directive 2014/30/EU
  CE Directive 2014/68/EU
  Railway applications (DIN EN 50155)

Technical data

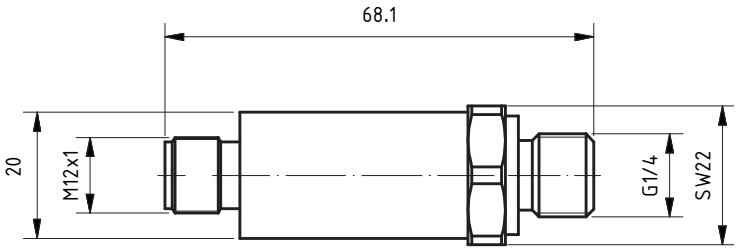
Hydraulic characteristics	Measuring range:	See type code
	Pressure type:	Relative pressure
	Overload range:	2 x full scale*
	Burst pressure:	3 x full scale*
Mechanical characteristics	Design:	Screw-in pressure transmitter
	Fluid temperature:	-40 °C to +125 °C
	Ambient temperature:	-40 °C to +105 °C
	Installation position:	Any
	Weight:	0.1 kg
	Materials:	Casing and parts that come into contact with fluids: Stainless steel
	Measuring principle:	Piezoresistive
	Shock resistance:	1000 g in accordance with DIN EN 60068-2-32
	Vibration resistance:	20 g in accordance with DIN EN 60068-2-6
	Damping:	ø0.6 mm, integrated in the hydraulic connection in the sensor
Electrical characteristics	Operating voltage:	12 - 32 V DC or 5 V DC ±10 %
	Protection class:	IP67 (according to the plug system, if correctly installed)
	Setting time:	≤ 2 ms
	Output signal:	See type code
	Electrical connection:	M12x1 device plug, 4-pin Device plug DIN EN 175301-803, shape A, 3-pin + PE
	Electromagnetic compatibility:	25 V/m (in accordance with DIN EN 61000-4-3)
	Temperature coefficient in the compensated temperature range:	≤ 0.15 % / 10 K
	Radiation:	< 30 BµV/m (in accordance with DIN EN 61000-4-3)
	Precision @ RT:	≤ 0.50 % of the range
	Stability/year:	≤ 0.15 % of the range
	Non-linearity:	≤ 0.15 % of the range

NOTE Due to electronic calibration the pressure transmitter has a total error of 2% of full scale*. Customer-specific special versions with higher precision are available on request.

* integral linearity error

Dimensions

MODS



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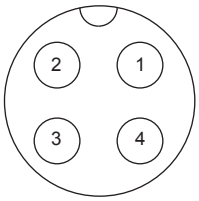
Pin assignment

Electrical connection M12x1, 4-pin

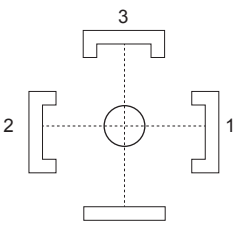


View of the MODS sensor

Output signal	Pin 1	Pin 2	Pin 3	Pin 4
A	Supply voltage + (12 - 32 V DC)	n.c.	4 - 20 mA output signal	n.c.
B	Supply voltage + (12 - 32 V DC)	n.c.	Supply voltage - (GND)	0 - 20 mA output signal
C	Supply voltage + (12 - 32 V DC)	n.c.	Supply voltage - (GND)	Output signal 0 - 10 V DC
D	Supply voltage + (5 V DC ±10 %)	n.c.	Supply voltage - (GND)	Output signal 0,5 - 4,5 V DC ratiometric
E	Supply voltage + (12 - 32 V DC)	4 - 20 mA output signal	Supply voltage - (GND)	n.c.

n.c. = not connected

Electrical connection DIN EN 175301-803, shape A, 3-pin + PE



View of the MODS sensor

Output signal	Pin 1	Pin 2	Pin 3
C	Supply voltage + (12 - 32 V DC)	Supply voltage - (GND)	Output signal 0 - 10 V DC

Type code

MODS - [ ] - G 1/4 - [ ] - [ ]

Pressure Transmitter

Measuring range	
6	-1 - 6 bar
60	0 - 60 bar
160	0 - 160 bar
250	0 - 250 bar
400	0 - 400 bar
600	0 - 600 bar

Connection thread (in accordance with DIN 3852)

Output signal	
4 - 20 mA	**A**
0 - 20 mA	**B**
0 - 10 V DC	**C**
0.5 - 4.5 V DC	**D**
4 - 20 mA (3-wire)	**E**

Electrical connection	
M12x1	**M12**
DIN EN 175301-803, shape A, 3-pin + PE	**N**

Accessories and further information

	Article:	Material number:
Accessories/ spare parts	Seal ring (Viton)	1095335

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