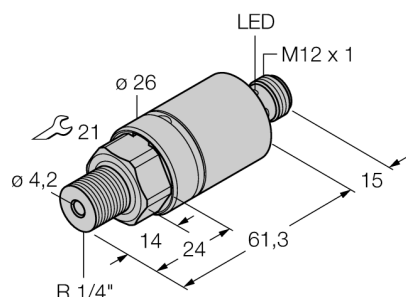


Pressure switch

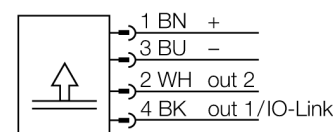
2 PNP/NPN transistor switching outputs

PC001R-210-2UPN8X-H1141



- Cylindrical version without display
- 2 PNP/NPN switching outputs
- Communication via IO-Link
- Display of switching state and communication via LED at M12 connector
- Pressure range 0 ... 1 bar rel.

Wiring diagram



Functional principle

The IO-Link pressure transmitters of the PC 200 series operate with piezoresistive ceramic measuring cells. The ceramic diaphragm is unbalanced in proportion to the pressure applied. The digitally processed signal is made available via IO-Link or as switching output. Highest flexibility and 0.5 % f.s. accuracy guarantee secure connection to your processes.

Type	PC001R-210-2UPN8X-H1141
Ident-No.	6833763
Switch point SP1	customized
Release point rP1	customized
Relative pressure	0...1bar rel.
Admissible overpressure	≤ 5,5 bar
Burst pressure	≥ 5,5 bar
Operating voltage	15...30VDC
No-load current I ₀	≤ 12 mA
Protective measure	SELV; PELV according to EN 50178
Short-circuit/reverse polarity protection	yes/ yes
Protection type and class	IP69K/ III
Output 1	Switching output or IO-Link mode
Output 2	switching output
Output function	NO/NC , PNP/NPN
Switching point accuracy	± 0.5 % of full scale
Repeatability	± 0.1 % of full scale
Voltage drop at I _e	≤ 2 V
Rated operational current	0.15 A
Switching frequency	≤ 180 Hz
Switching point distance	≥ 0.5 %
Switch point:	(min + 0.005 x range) up to 100% f.s.
Release point(s)	min up to (SP - 0.005 x range)
Switching cycles	≥ 100 mil.
Response time	< 3 ms
IO-Link	
Communication	specified acc. to version 1.0
Parameterization	FDT / DTM
Transmission physics	corresponds to 3-wire physics (PHY2)
Transmission rate	COM 2 / 38.4 kbps
Process data width	16 bit
Measured value information	14 bit
Switchpoint information	2 bit
Frame type	2.3
Temperature behaviour	
Temperature coefficient zero point T ₀	± 0.3 % of full scale / 10 K
Temperature coefficient span T ₁₅	± 0.3 % of full scale / 10 K

Pressure switch

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Ambient conditions	
Medium temperature	-40...85 °C
Ambient temperature	-40...80 °C
Storage temperature	-40...+80°C
Vibration resistance	20 g (9...2000 Hz), according to IEC 68-2-6
Shock resistance	50 , according to IEC 61508
Housing	
Housing material	Stainless steel, 1.4305 (AISI 303)/PBT-GF15
material pressure connection	Stainless steel A2 1.4305 (AISI 303)
material pressure element	Ceramics AL2O3
Sealing material	FPM
Mechanical connection	R1/4" female thread per DIN 2999
Wrench size pressure connection / coupling nut	21
Connection	connector, M12 x 1
Switching state	LED
Programming options	Switch/release point, PNP/NPN, NO/NC, hysteresis/window mode, muting, pressure unit, peak pressure memory