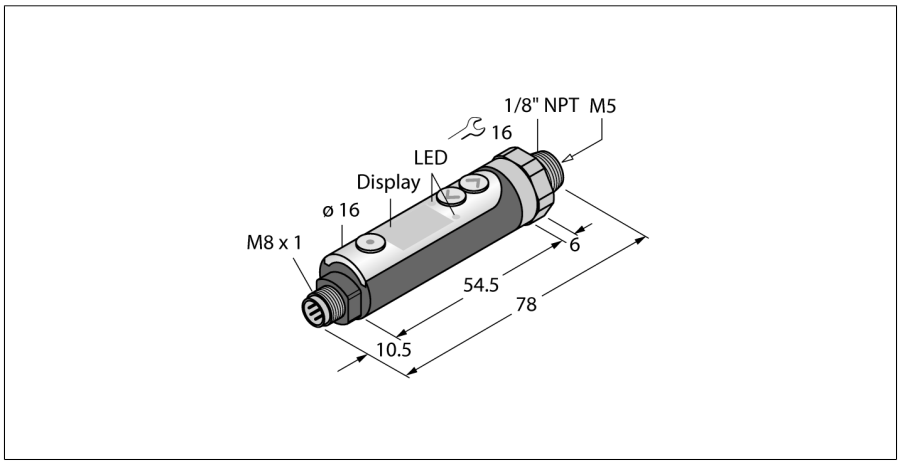
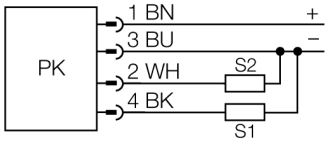
Pressure Sensor
2 PNP transistor switching outputs
PK010R-P14-2UP8X-V1141

Industrial Automation



- **Compact design**
- **Pressure and vacuum monitoring**
- **Rotatable body**
- **Display rotatable by 180°**
- **Excellent EMC properties**
- **Pressure range 0…10 bar rel.**

Wiring Diagram



Type designation	PK010R-P14-2UP8X-V1141
Ident-No.	6833007
Pressure range	
Relative pressure	0…10 bar rel. 0…145.04 psi 0…1 MPa
Admissible overpressure	≤ 16 bar
Response time	< 2.5 ms
Power supply	
Operating voltage	10.8…30 VDC
Short-circuit/reverse polarity protection	yes / yes
Protection type and class	IP65
Outputs	
Output 1	Switching output
Output 2	switching output
Switching output	
Output function	NO/NC, PNP
Accuracy switching output	± 1 % v. E. BSL
Rated operational current	0.3 A
Switching frequency	≤ 400 Hz
Switching point distance	≥ 0.2 %
Switch point:	0…100 %
Temperature behaviour	
Medium temperature	0…+50 °C
Temperature coefficient zero point Tk0	± 0.15 % of full scale/10 K
Temperature coefficient span T_{ks}	± 0.15 % of full scale/10 K
Ambient conditions	
Ambient temperature	-10…+50 °C
Storage temperature	-20…+85 °C
Vibration resistance	10…55 Hz 1.5 mm, XYZ 2 h
Shock resistance	10 g (11 ms) , according to IEC 61508
EMC	Emitted interference acc. to EN 61000 EN 61000-6-4* Intrinsically safe acc. to EN 61000-6-2* * shielded connection cable recommended
Housing	
Housing material	Plastic, ABS
Pressure transducer material	Silicon
Process connection	NPT ¼" male thread
Wrench size pressure connection / coupling nut	SW 16
Electrical connection	Connectors, M8 × 1

Functional principle

The pressure transmitters of the PK series operate with a silicon measuring cell. Through the pressure applied on the silicon, a pressure proportional signal is generated and electronically processed . The processed signal is made available as switching output. The sensors are intended only for use in non-aggressive gas and compressed air applications. With lubricated compressed air, the pressure connection should point downwards

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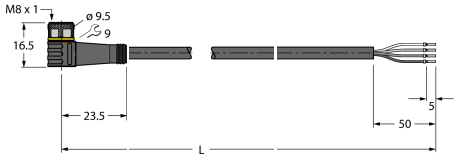
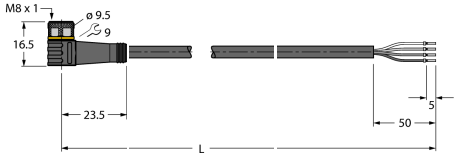
Pressure Sensor
2 PNP transistor switching outputs
PK010R-P14-2UP8X-V1141

Reference conditions acc. to IEC 61298-1	
Temperature	15…+25 °C
Atmospheric pressure	860…1060 hPa abs.
Humidity	45…75 % rel.
Auxiliary power	24 VDC

Display	
Display	3-digit 7-segment display, rotatable by 180°
Switching state	2 × LEDs,Red/Green
Programming options	switch/release point, hysteresis/window mode, NO/NC, muting, peak pressure memory
Unit display	LEDs for display of output status report

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Wiring accessories

Type code	Ident-No.	Description	
PKG4M-2/TXL	6625553	Connection cable, female M8, straight, 4-pin, cable length: 2 m, sheath material: PVC, black; cULus approval; other cable lengths and qualities available, see www.turck.com	
PKW4M-2/TXL	6625559	Connection cable, female M8, angled, 4-pin, cable length: 2 m, sheath material: PVC, black; cULus approval; other cable lengths and qualities available, see www.turck.com	
PKG4M-2/TEL	6625061	Connection cable, female M8, straight, 4-pin, cable length: 2 m, sheath material: PVC, black; cULus approval; other cable lengths and qualities available, see www.turck.com	
PKW4M-2/TEL	6625067	Connection cable, female M8, angled, 4-pin, cable length: 2 m, sheath material: PVC, black; cULus approval; other cable lengths and qualities available, see www.turck.com	

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