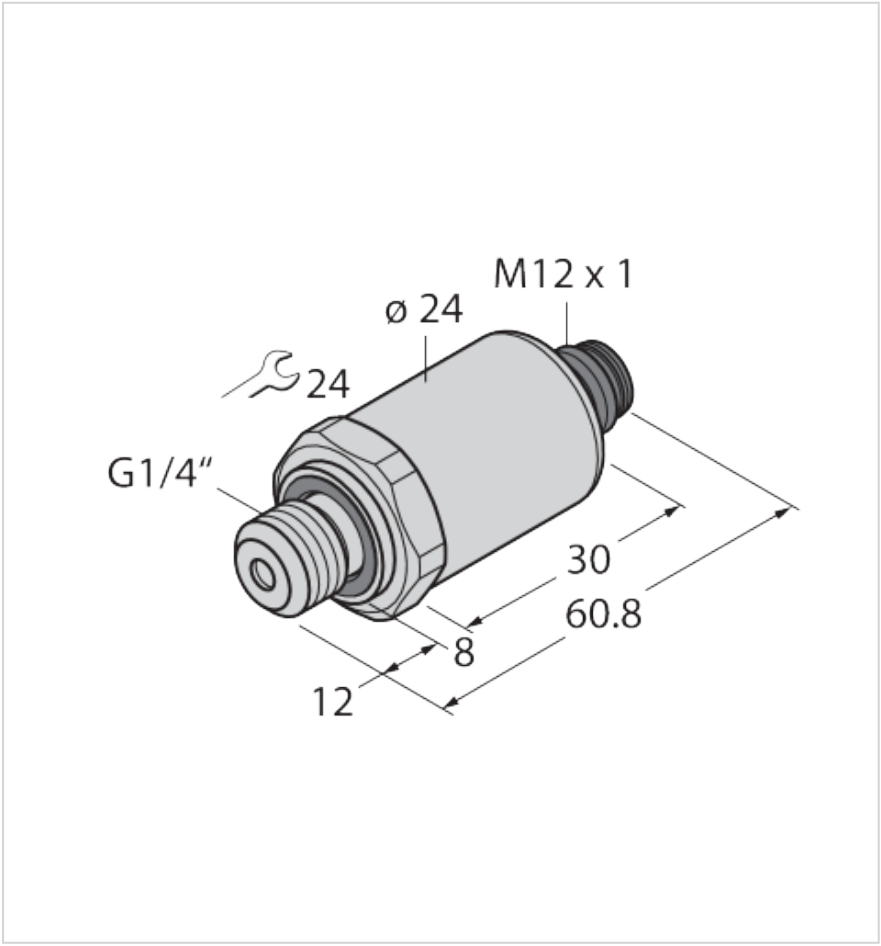
PT250R-2004-I2-H1141

Pressure Transmitter
With Current Output (2-Wire)



Typ	PT250R-2004-I2-H1141
Ident-No.	6836597

Technical data

Application area	
Admissible overpressure	≤ 750 bar
Medium temperature	-40…+135 °C
Burst pressure	≥ 1500 bar
Pressure type	Relative pressure
Detection area/measuring range	
Pressure range	0...250 bar
Pressure range	0...3625,94 psi

Features

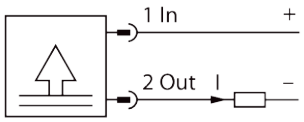
- Fully welded metal measuring cell
- Pressure range 0…250 bar rel.
- 7…33 VDC
- Analog output 4…20 mA
- Process connection G1/4″ male thread (back sealing) according to DIN EN ISO 1179-2 with FPM profile sealing ring
- Connector device, M12 × 1

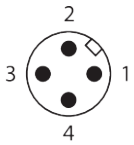
| 14-06-2026 19:06 | Subject to technical changes |

Technical data

Pressure range	0...25 MPa
Pressure range	
Long-term stability	0,25 % FS according to IEC EN 60770-1
Power supply	
Operating voltage U_B	7...33 VDC
Insulation voltage	750 VDC
Power supply	
Electrical data	
Output function	Analog output current
Short-circuit protection	yes
Wire break/reverse polarity protection	yes
Current consumption	≤ 23 mA
Insulation class	III
Response time	< 2 ms, typ. 1 ms
Outputs	
Accuracy LHR	±0.3 % FS (typical; max. +0.5 % FS)
Current output	4...20 mA
Electrical output	Current output (2-wire)
Load	≤ (supply voltage -7)/20 kΩ
Output 1	Analog output
Resolution	± 0,1 % FS
Accuracy/deviation	
Reference temperature	25 °C
Temperature coefficient	±0,2 % v.E./10 K
Mechanical data	
Design	Without display
Housing material	Stainless-steel/Plastic, 1.4404 (AISI 316L)/polyarylamide 50 % GF UL 94 V-0
Pressure transducer material	Stainless steel 1.4435 (AISI 316L)
Max. tightening torque of housing nut	20 Nm
Electrical connection	Connector, M12 x 1
Wrench size pressure connection/ coupling nut	24
Pressure connection material	Stainless steel 1.4404 (AISI 316L)
Process connection	G 1/4″ male thread (back sealing) according to DIN EN ISO 1179-2 with FPM profile sealing ring

Wiring Diagram





Functional principle

The pressure sensors in the PT…-2000 product series operate with a fully welded metal measuring cell in various pressure ranges of up to -1…1000 bar in 2-, 3- or even 4-wire technology. Depending on the sensor variant, the processed signal is available as an analog output signal (4… 20 mA, 0…10 V, 0…5 V, 1…6 V, ratiometric) or as a digital IO-Link process parameter. The IO-Link sensor variants also have two independently configurable switching outputs.
In addition to the standard variants, there are special sensors for uses such as ATEX areas or for oxygen applications.
A wide range of process connections and electrical connections offer a high degree of flexibility in a wide range of applications.

| 14-06-2026 19:06 | Subject to technical changes |

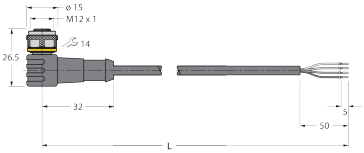
Technical data

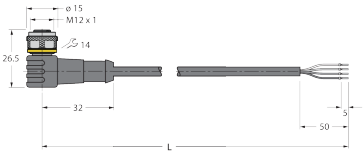
Ambient conditions	
Ambient temperature	-30...+85 °C
Storage temperature	-50…+100 °C
Shock resistance	100 g (11 ms) g, 11 ms, half sinusoidal curve, all 6 directions, free fall from 1 m onto concrete (6x) acc. to IEC 68-2-27
Vibration resistance	20 g, 15…2000 Hz, 15…25 Hz with amplitude ± 15 mm, 1 octave/minute in all 3 directions, 50 continuous loads acc. to IEC 68-2-6
Protection class	IP67
Tests/approvals	
UL registration number	E302799
Approvals	cULus
MTTF	1189 Years acc. to SN 29500 (Ed. 99) 40 °C
Reference conditions	
Auxiliary power	24 VDC
Atmospheric pressure	860…1060 hPa abs.
Humidity	45…75 % rel.
Temperature	15…+25 °C
Comments	
Included in delivery	FKM special profile seal (1x)

| 14-06-2026 19:06 | Subject to technical changes |

Connection accessories

RKC4.4T-2/TXL	6625503
	Connection cable, M12 female connector, straight, 4-pin, cable length: 2 m, jacket material: PUR, black; cULus approval

WKC4.4T-2/TXL	6625515
	Connection cable, M12 female connector, angled, 4-pin, cable length: 2 m, jacket material: PUR, black; cULus approval

WKC4.4T-2/TEL	6625025
	Connection cable, M12 female connector, angled, 4-pin, cable length: 2 m, jacket material: PVC, black; cULus approval

RKC4.4T-2/TEL	6625013
	Connection cable, M12 female connector, straight, 4-pin, cable length: 2 m, jacket material: PVC, black; cULus approval

| 14-06-2026 19:06 | Subject to technical changes |