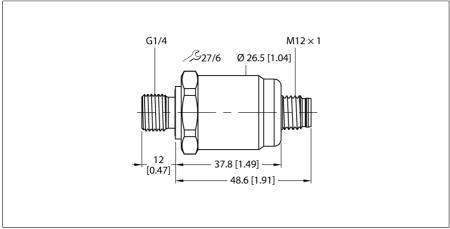
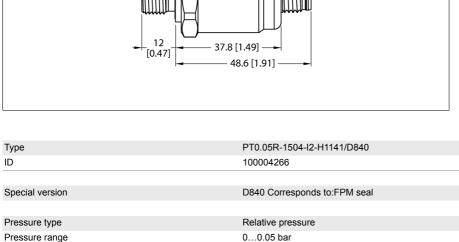


Pressure Transmitter With Current Output (2-Wire) PT0.05R-1504-I2-H1141/D840





0...0.73 psi

 \leq 2 bar

-0.3 bar

 \geq 2 bar

+ 0.2 mbar

+ 0.1 mbar

10...30 VDC

≤ 23 mA

yes / yes

IP67

Ш

0...0.005 MPa

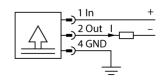
Vertical, pressure connection at bottom

0.25 % FS, Acc. to IEC EN 60770-1



- Ceramic measuring cell
- Extremely high measuring accuracy
- Compact and robust design
- Excellent temperature behavior
- Pressure range 0...50 mbar rel.
- 10...30 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

Wiring Diagram





| Insulation voltage | 500 VDC | |
|--------------------|---------------|--|
| | | |
| Outputs | | |
| Output 1 | Analog output | |
| | | |

| Analog output | | |
|----------------|--------------------------------------|--|
| Current output | 420 mA | |
| Load | ≤ (supply voltage -10)/20 kΩ | |
| Resolution | <± 0.1 % FS | |
| Accuracy LHR | ±0.35 % FS (FS < 100 mbar ±0.7 % FS) | |

| Temperature behaviour | |
|----------------------------------|------------------|
| Medium temperature | -15+85 °C |
| Temperature coefficient span TkS | ± 0.07 % FS/10 K |

Functional principle

The pressure sensors in the PT...-1500 product series operate with a ceramic measuring cell in various micropressure ranges of up to -100...600 mbar in 2- or 3-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, ratiometric)

In addition to the standard variants, there are special sensors for uses such as ATEX areas.

Admissible overpressure

Horizontal position error

Long-term stability

Current consumption

Protection class

Insulation class

Short-circuit/reverse polarity protection

Power supply
Operating voltage U

Vertical position error, pressure connection at top

Permissible vacuum

Burst pressure

Response time
Adjustment position



| -25+85 °C |
|--|
| -40+85 °C |
| 20 g, 152000 Hz, 1525 Hz with amplitude ± 15 mm, 1 octave/minute in all 3 directions, 50 continuous loads, according to IEC 68-2-6 |
| 50 g, 6 ms, half sinusoidal curve, all 6 directions, free fall from 1 m onto concrete (6x) acc. to IEC 68-2-27 |
| |
| Stainless-steel/Plastic, 1.4404 (AISI 316L)/polyary-lamide 50 % GF UL 94 V-0 |
| Stainless steel 1.4404 (AISI 316L) |
| Ceramic AI□O□ |
| FPM |
| G1/4" male thread (back sealing) according to DIN EN ISO 1179-2 with FPM profile sealing ring |
| 27 |
| Connector, M12 × 1 |
| 27 Nm |
| |
| 15+25 °C |
| 8001060 hPa abs. |
| 45 % rel. |
| 24 VDC |
| |
| cULus |
| E302799 |
| |
| 965 years acc. to SN 29500 (Ed. 99) 40 °C |
| |

A wide range of process connections and electrical connections offer a high degree of flexibility in a wide range of applications.