



Titan Series - TPTLRa

Part No.: TPTLRa-DA-BX-BE-SR12G-37

Low Range Pressure Transmitter
- Analogue



Description:

The Titan TPTLRa series of pressure transducers have been developed using a Stainless Steel piezo-resistive silicon sensing element housed in a robust stainless steel housing. It has an integrated Cable outlet offering up to IP66 ingress protection.

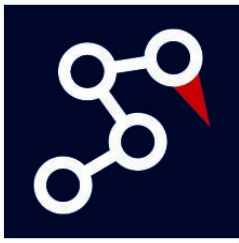
The internal PCB incorporates a versatile microprocessor enabling an output of 0-10V from a 13-32V dc supply.

Product Highlights:

- Pressure ranges from 50mbar up to 20 Bar
- Accuracy $<\pm 0.25\%$ / $<\pm 0.10\%$
- Responsive stainless steel sensor
- Various analogue output versions
- High level of temperature compensation
- Choice of mechanical connections
- Cost effective for Industrial and OEM solutions

Applications include, but not limited to:

- OEM installations
- Laboratory & Research testing
- Pneumatic testing
- Medical testing / prototyping
- Data loggers
- Aerospace test and research
- Automotive component testing
- Academic research



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Specification:

| Titan Pressure Transducer - TPLRa-DA-BX-BE-SR12G-37 | |
|---|--|
| Sensor technology | Piezo-resistive, Silicon |
| Output Version | 0-10V (3-wire) |
| Supply voltage | 13 - 32V dc |
| Pressure reference | Gauge |
| Pressure range | -15 to +10 Psi |
| Safe over pressure | 1.5 times rated pressure |
| Burst Pressure | 3 times rated pressure |
| Accuracy (NL&H) | $\leq \pm 0.10$ % FS |
| Long Term Stability | $\leq \pm 0.10$ % FS |
| Response Time (ms) | <10ms |
| Ambient temperature | -20 °C to +85 °C |
| Media temperature | -40 °C to +125 °C |
| Storage temperature | -40 °C to +85 °C |
| Temperature effects | Typical thermal zero and span coefficients, TZS: ± 0.02 %FS/°C, TSS: < -0.015 %/°C |
| Media wetted parts | 316 Stainless Steel, EPDM seal |
| Permissible media | All fluids compatible with media wetted parts |
| Electrical connection | Cable Outlet with 2m of screened PVC cable (IP66) via a ferrule crimp cover (cores are 7/0.2mm, 0.22m ²) |
| Pressure connection | 1/8" NPT male |
| Environmental Protection | IP66 |

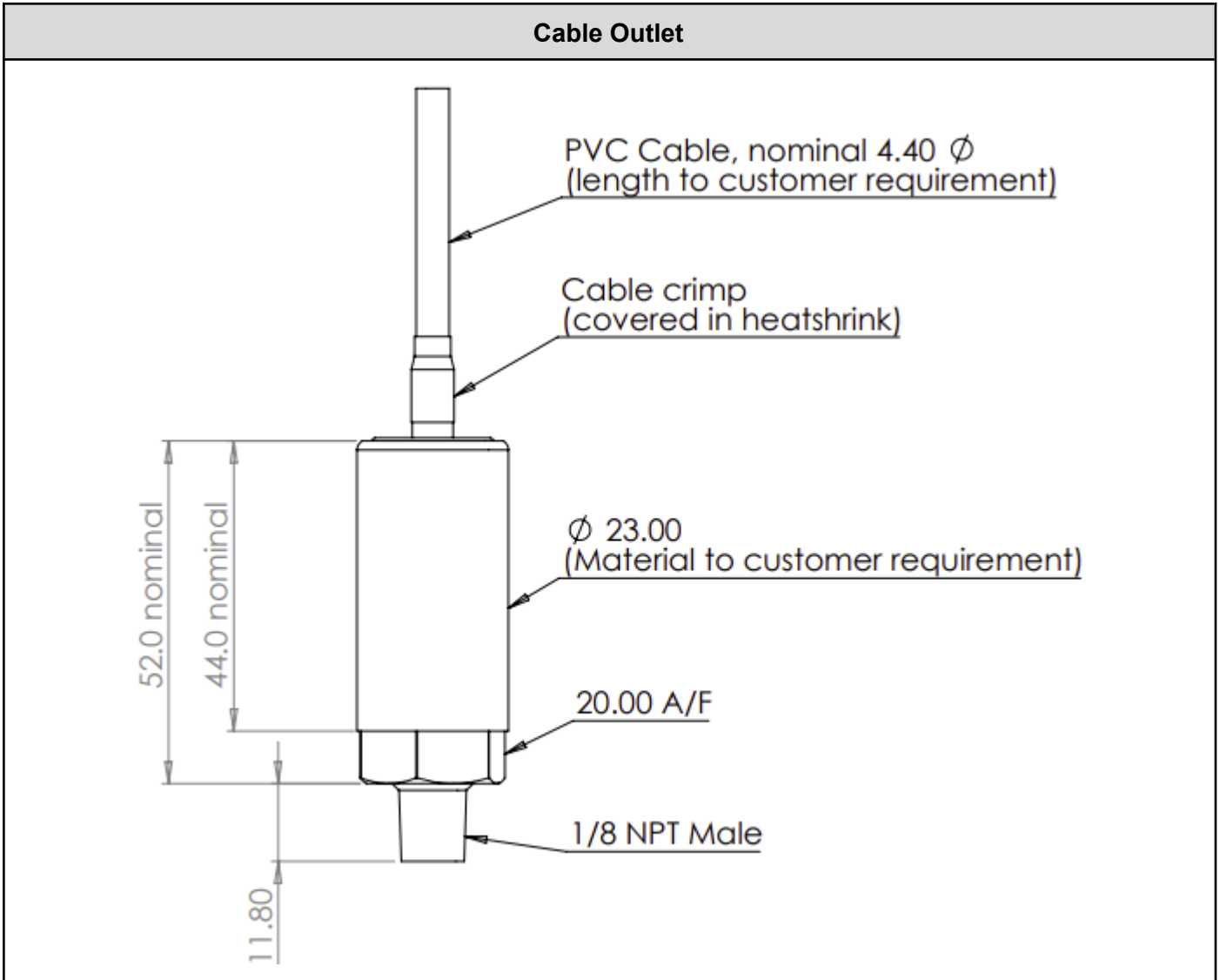


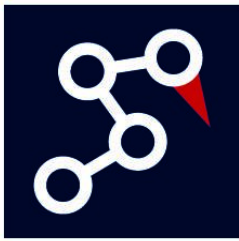
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Wiring Configuration:

| | Core colour | Purpose | Diagram |
|----------------------|--------------------------------|---|--|
| Wiring Configuration | Red Blue Green Yellow | Positive Supply (+ve) Negative Supply (0V) Voltage Output (Vout) Earth to Case | <p>3-wire-system (current / voltage)</p> |

Dimensional Drawings:





Part Numbering system

Full Part number: TPTLRa-DA-BX-BE-SR12G-37

Description -

- **TPTLRa**: Titan Pressure Transmitter, Low Range - Analogue Version
- **D** = Output: 0 - 10V / 3-wire
- **A** = Accuracy Class: 0.25%
- **B** = Cable Outlet with 2m of screened PVC cable (IP66) via a ferrule crimp cover
- **X** = Process Connection: 1/8" NPT male
- **B** = Housing Material: 316 Stainless Steel
- **E** = Seal Material: EPDM
- **SR12** = Pressure Range: -15 to +10 Psi
- **G** = Pressure Datum: Gauge
- **37** = Special Options: 1/8" NPT pressure port on TPTLRa in 316 Stainless Steel