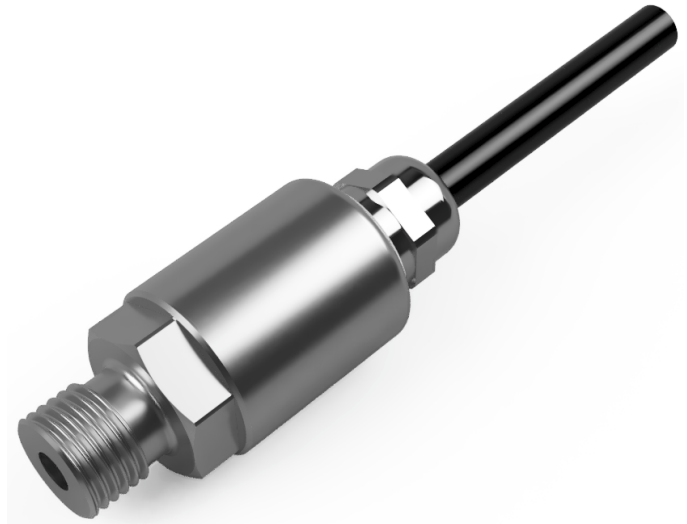


Titan Series

Model: TPTLRd

Low Range

Pressure Transmitter - Digital



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 the option of an integrated Cable outlet or an M12 x 1, 4-Pin connector both offering up to IP67* ingress protection.

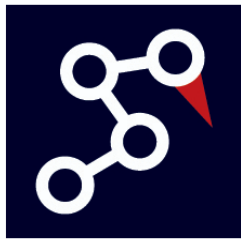
The internal PCB incorporates a versatile microprocessor enabling a range of digital communications including i2c and SPi from a 2.7 - 5.5V dc supply.

Product Highlights:

- Pressure ranges from 50mbar up to 20 Bar
- Accuracy $<\pm 0.25\%$ / $<\pm 0.10\%$
- Responsive stainless steel sensor
- I2c and SPi supported
- 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



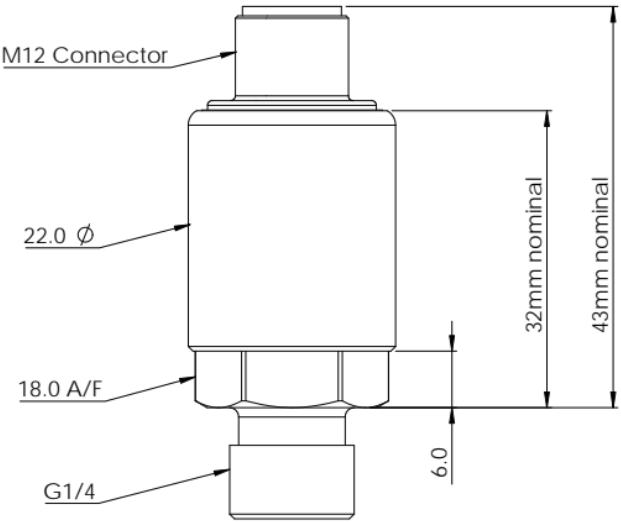
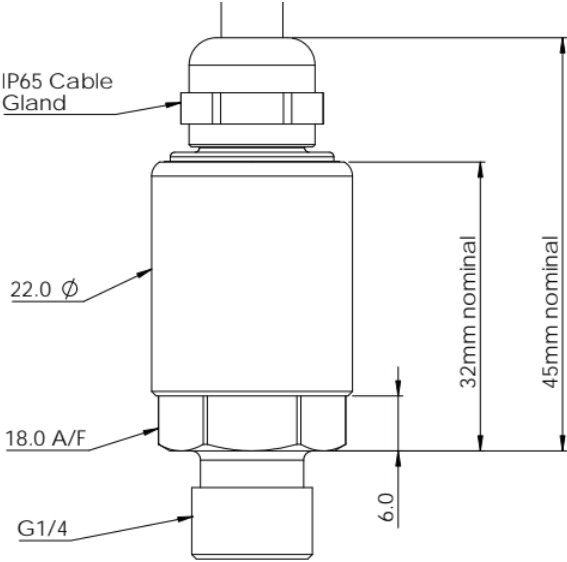


STORK SOLUTIONS

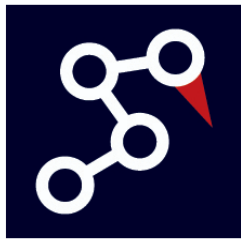
Specification:

Titan Pressure Transducer - TPTLRd			
Sensor technology	Piezo-resistive, Silicon		
Output Versions	I2c, SPi		
Supply voltage	2.7 - 5.5V dc		
Pressure reference	Gauge (Others available on request)		
Pressure ranges	70, 200, 350, 700, 1000mbar 2, 3.5, 7, 10, 20 Bar		
Safe over pressure	1.5 times rated pressure		
Burst Pressure	3 times rated pressure		
Accuracy (NL&H)	$\leq \pm 0.25\%$ / $\leq \pm 0.10\%$ FS (dependant on range)		
Long Term Stability	$\leq \pm 0.10\%$ FS		
Response Time (ms)	Various Options, Consult Sales		
Ambient temperature	-20 °C to +85 °C		
Media temperature	-40 °C to +125 °C		
Storage temperature	-20 °C to +80 °C		
Temperature effects	Typical thermal zero and span coefficients, TZS: $\pm 0.02\%$ FS/°C, TSS: $< -0.015\%$ /°C		
Media wetted parts	303 & 316 Stainless Steel, Viton		
Permissible media	All fluids compatible with media wetted parts		
Electrical connection	M12 x 1, 4-pin male connector (mating cable sold separately) Cable Outlet with 0.25m screened PVC cable		
Pressure connection	G $\frac{1}{4}$ " DIN 3852 male & female, $\frac{1}{4}$ " NPT male, 7/16-20 UNF-2A male SAE#4 J514		
Environmental Protection	M12 connector	Gauge reference ≤ 50 bar: IP65	Absolute, Sealed Gauge reference or > 50 bar range: IP67
	Cable Outlet	IP65	



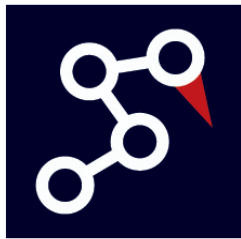
Dimensional Drawings:

M12 Connector	Cable Outlet
	
	



Part Numbering system

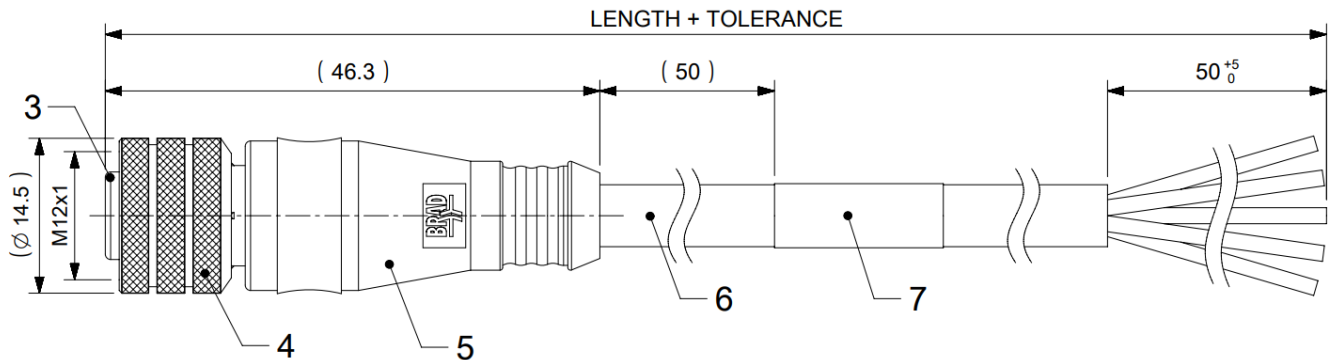
TPTLRd - Titan Low Range Pressi TPTLRd - X X - X X - X X - X X X X X - X X													
Output Type													
i2c	A												
SPi	B												
Accuracy Class													
0.25%	A												
0.10%	B												
Electrical Connection													
Connector M12 x 1, 4-pin male		A											
Cable Outlet IP65		B											
Process Connection													
G1/4" male DIN 3852			G										
G1/4" female DIN 3852			F										
1/4" NPT male			N										
7/16-20 UNF-2A male SAE#4 J514			U										
Housing Material													
303 Stainless Steel			A										
316 Stainless Steel			B										
Seal Material													
Viton				V									
(Drinking Water Approved) EPDM				E									
NBR				N									
Pressure Range													
50mbar						0	0	5	0				
200mbar						0	2	0	0				
350mbar						0	3	5	0				
700mbar						0	7	0	0				
1000mbar						1	0	0	0				
2 Bar						2	0	0	0				
3.5 Bar						3	0	0	0				
7 Bar						7	0	0	0				
10 Bar						1	0	0	1				
20 Bar						2	0	0	1				
5 Psi (example)						P	0	0	5				
10 Psi (example)						P	0	1	0				
Pressure Datum													
Gauge										G			
Special Options													
None											0	0	



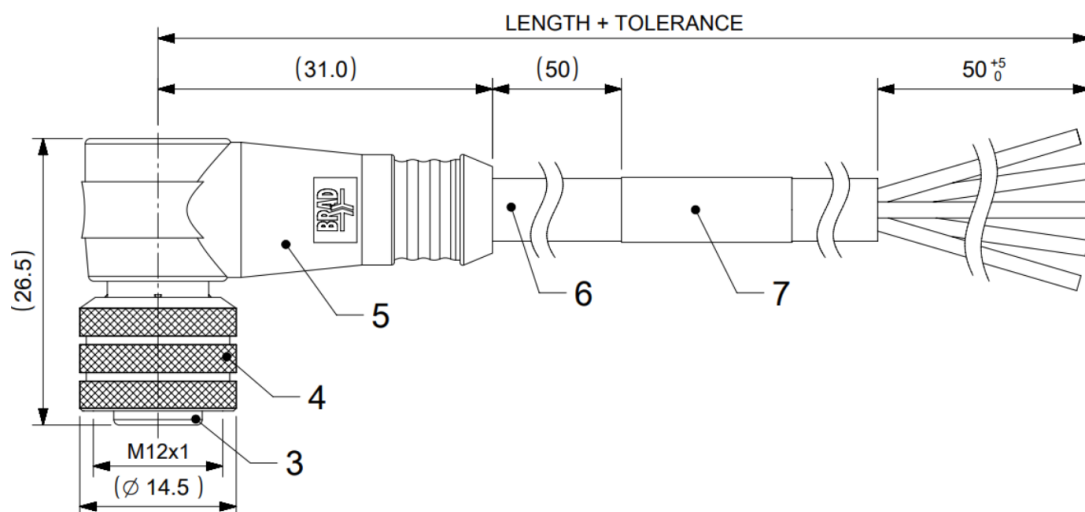
STORK SOLUTIONS

Accessories:

Mating M12 cable cordset - Straight



Mating M12 cable cordset - Right-Angled



Temperature Reducing Adaptor

