

The TDL35 Series Pressure Transducer for General Purpose Industrial Applications



SERIES: TDL35

DESCRIPTION

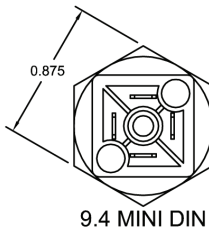
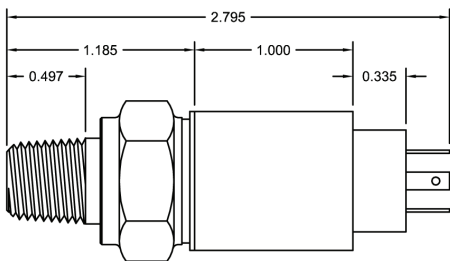
The TDL35 Series Pressure Transducer was developed for all types of industrial applications. The design is based on high temperature, inorganically bonded, media isolated, piezo-resistive technology and offers reliable and accurate measurements under harsh environmental conditions. Robust construction of the TDL35 provides stable operation when subjected to shock and vibration. Suitable for use in OEM machinery, process control, automation, hydraulic pumps, water applications, HVAC, etc.

Features digital compensation and temperature correction for high accuracy and stability.

FEATURES

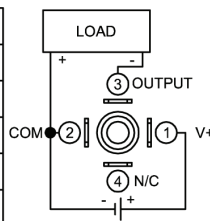
- Gauge Pressures, 2 to 10,000 psi
- ASIC Temperature Compensated
- Robust construction to withstand high vibration
- Output Impedance: < 100 ohms
- Wetted Parts: RTV, Pyrex, Silicone, 316SS
- Process Fitting: 1/4" - 18 NPT, other options available
- 9.4 mini din and Packard Connector

ELECTRICAL CONNECTIONS



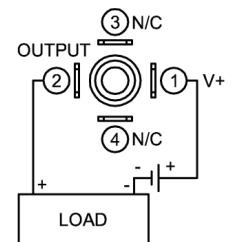
Voltage

DIN 4 PIN (9.4)		
PIN	COLOR	FUNCTION
1	RED	SUPPLY V+
2	BLACK	COM
3	WHITE	OUTPUT +
4	N/A	N/C

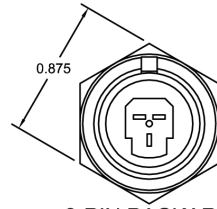
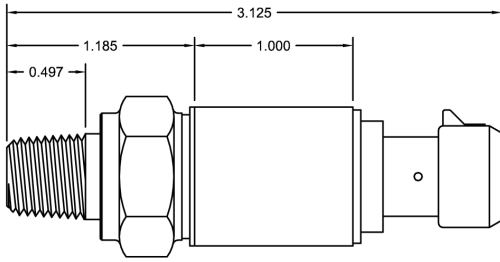


Current

DIN 4 PIN (9.4)		
PIN	COLOR	FUNCTION
1	RED	SUPPLY V+
2	BLACK	COM
3	BLUE	N/C
4	N/A	N/C



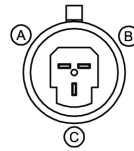
ELECTRICAL CONNECTIONS



3-PIN PACKARD

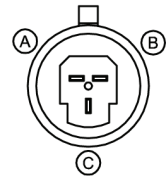
Voltage

3 PIN PACKARD		
PIN	COLOR	FUNCTION
A	BLACK	COM
B	RED	SUPPLY +
C	WHITE	OUTPUT +



Current

3 PIN PACKARD		
PIN	COLOR	FUNCTION
A	BLACK	OUTPUT
B	RED	SUPPLY +
C	N/A	N/C



SPECIFICATIONS

Zero & Span Tolerance: 1.5% for all outputs

TDL35K (Ratiometric) Performance	
(specified @ 25°C)	
Accuracy (Best fit straight line)	+/- 1% FS
Supply Voltage	4.75~5.25 VDC
Output	0.5~4.5 VDC (Ratiometric)
Supply Current	<8 mA
Error	+/- 3.0% FS TEB
Zero Offset	0.5 VDC
Full Scale Output	4.5 VDC
Compensated Temperatures	-10 to 75°C
Operating Temperatures	-20 to 80°C
Storage Temperature Range	-40 to 85°C
Burst Pressure	3x Full Scale
Proof Pressure	2x Full Scale

TDL35B (4~20 mA) Performance	
(specified @ 25°C)	
Accuracy (Best fit straight line)	+/- 1% FS
Supply Voltage	9~30 VDC
Output	4~20 mA
Supply Current	<30 mA
Error	+/- 3.0% FS TEB
Zero Offset	4 mA
Full Scale Output	20 mA
Compensated Temperatures	-10 to 75°C
Operating Temperatures	-20 to 85°C
Storage Temperature Range	-40 to 85°C
Burst Pressure	3x Full Scale
Proof Pressure	2x Full Scale

TDL35C (0~5 VDC) Performance	
(specified @ 25°C)	
Accuracy (Best fit straight line)	+/- 1% FS
Supply Voltage	8~28 VDC
Output	0~5 VDC
Supply Current	<10 mA
Error	+/- 3.0% FS TEB
Zero Offset	0 VDC
Full Scale Output	5 VDC
Compensated Temperatures	-10 to 75°C
Operating Temperatures	-20 to 85°C
Storage Temperature Range	-40 to 85°C
Burst Pressure	3x Full Scale
Proof Pressure	2x Full Scale

For best performance use shielded cables.

Mating connectors and cable assemblies sold separately.

ORDERING

Series	Output	Pressure Type	Pressure Range	Pressure Connection	Electrical Connection	Accuracy
TDL35	B	G	0050	03	B00	4
	B = 4 - 20mA C = 0 - 5V K = 0.5 - 4.5V (Ratiometric) **	G = Gauge	0015 0025 0050 0100 0250 0500 1000 3000 5000 **	03 = 1/4 - 18 NPT Male **	B00 = 3 pin Packard D00 = 4 pin mini 9.4 Din	4 = 1.0% **

**= Consult factory for further OEM options

Pressure ranges and outputs listed above are quick ship versions

Specifications may change without notice. The information we supply is believed to be accurate and reliable as of this printing. However, we assume no responsibility for its use. While we provide application assistance personally, through our literature and the Transducers Direct web site, it is up to the customer to determine the suitability of the product in the application.

REV: 1.17