

BI-DIRECTIONAL, DIFFERENTIAL COMPENSATED TRANSDUCERS

The **210-65-010** is a high quality, dependable, bi-directional full-line differential pressure transducer suitable for high shock and vibration applications typically found in the automotive, industrial, military and test industries.

The **210-65-010** is temperature compensated, operating at temperatures from **0°F to +250°F** (-17°C to +121°C) in pressure ranges of **0-500 to 0-5000 PSID** and has a low thermal zero shift of **± 0.03%** of full scale output per °F.

Offered in a small/light weight package for applications where space is limited, the **210-65-010** can be provided with optional mounting adapters, pressure port configurations and/or electrical connections for increased flexibility.



210-65-010-XX
0-500 to 0-5,000 PSID
MEDIA: SKYDROL

Specifications:

Typical Performance: The following parameters are established from production units.

Calibration Data: Calibration Certificates are supplied with each unit.

Performance: *

Thermal Zero Shift: ± 0.03% of Full Scale Output (F.S.O.) per °F maximum.

Thermal Sensitivity Shift: ± 0.01% of F.S.O. per °F maximum.

Full scale (F.S.) Sensitivity: P1=2.0 mV/V ± 20%, P2=P1 ± 2.0% of P1.

Output at Zero Differential Pressure: 0 ± 10% F.S.O.

Non-Linearity and Hysteresis Combined: ± 0.25% F.S.O. to ± 0.35% (depending on part option).

Repeatability: Within ± 0.10% of F.S.O.

Operating Temperature Range: 0°F to +250°F (-17°C to +121°C).

Compensated Temperature Range: +50°F to +150°F (10°C to +65°C).

Mechanical: *

Pressure Range: 0-500 to 0-5,000 PSID.

Proof Pressure: 150% of rated range (line and differential).

Burst Pressure: 250% of rated range (line and differential).

Pressure Media: Any compatible with Skydrol®.

Electrical Connections: 4 pin bayonet connector. Mates with MS3116-8-4S.

Pressure Port: Manifold mounting per MIL-P-5514, Type II, Class 2
Recommended O-rings MS28775-008 are supplied with each transducer.

Optional adapters, ports, connections and more are available upon request.

Weight: 1.8 ounces nominal (0.051 kg).

Environmental: Error due to combined effect of shock, vibration, and acceleration shall be less than 0.01% of F.S. per G. **Acceleration:** 20 G's per MIL-STD-810, METHOD 513.1, PROC. I, **Vibration:** 20 G's per MIL-STD-810, METHOD 514.1, PROC. V, **Shock:** 30 G's per MIL-STD-810, METHOD 516.1, PROC. IV.

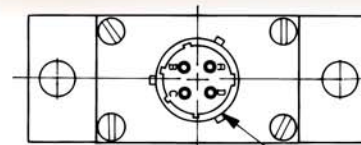
Electrical: *

Excitation: 10 VDC.

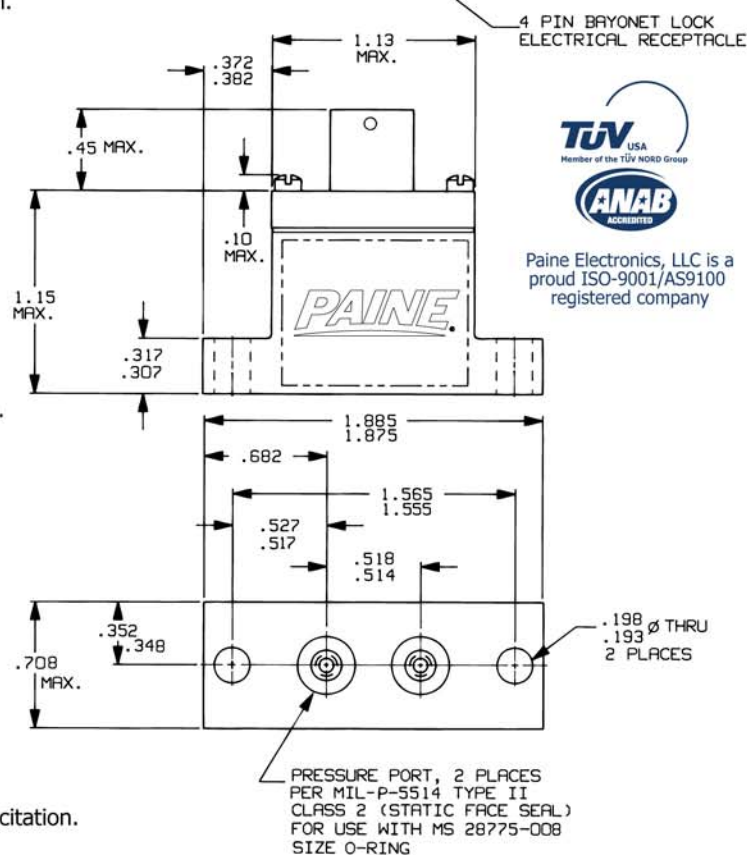
Input Resistance: 350 ± 70 Ω.

Output Resistance: 350 ± 35 Ω.

Electrical Connections: A= + Excitation, B= + Signal, C= - Signal, D= - Excitation.



Actual Size



Datasheet P/N: **210-65-010-DS_REV-C**

* Contact us or your authorized Paine Electronics representative for other standard and/or custom configurations or options.

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