

# PTG 135 - PRECISION PRESSURE TRANSDUCER

# PTG 230 - GENERAL PURPOSE PRESSURE TRANSDUCER

PRESSURE TRANSDUCER

The model PTG 135 (gauge pressure) is designed for rugged industrial applications requiring high accuracy pressure measurements. It is designed with 4 arm 350 ohm strain gage bridge and has welded stainless steel construction. Using a "True Gage" design, the PTG 135 utilizes a second welded diaphragm that hermetically seals the strain gage circuitry which allows the transducer to reference atmospheric pressure.

The PTG 230 is designed as a general purpose industrial pressure transducer. Pressure ranges span from 0.5 to 60,000 PSIG. It has stainless steel construction and utilizes a complete four arm 350 ohm strain gage bridge. The PTG 230 uses standard gage design. The PTA 232 has an internally sealed 0 psia reference.

All transducers have excellent long term stability.

### PTG 135

- HERMETICALLY SEALED
- HIGH ACCURACY
- WELDED DIAPHRAGM
- OPTIONAL AMPLIFIED OUTPUT
- 0.1% FULL SCALE ACCURACY

### PTG 230

- STAINLESS STEEL
- MANY OPTIONS
- 0.5 TO 60,000 PSI
- OPTIONAL AMPLIFIED OUTPUT
- 0.25 FULL SCALE ACCURACY



## SPECIFICATIONS

### PTG 135 (High Accuracy)

PRESSURE RANGES: 1 psig to 60,000 psig  
 ACCURACY: ± .1% F.S.  
 MATERIAL: Stainless Steel  
 TEMPERATURE RANGE: 60° to 160° F  
 OUTPUT: 2mV/V ±0.25%  
 OUTPUT RESISTANCE: 350 ±5 Ohms  
 BRIDGE RESISTANCE: 350 ohm  
 EXCITATION: 10 V ac-dc (15V max)  
 SAFE OVERPRESSURE: 25% to 50% Over Capacity  
 PRESSURE PORT: 1 to 10,000 psia see chart  
 15,000 psia to 60,000 psia - 9/16-18UNF per AE F250-C for 1/4 OD High Pressure Tubing  
 CABLE: As Required - mating conn. not incl. (PTO6A-10-6S)

### PTG 230 (Standard Accuracy)

PRESSURE RANGES: 0.5 psig to 60,000 psig  
 LINEARITY: ±0.15% F.S.  
 HYSTERESIS: ±0.10% F.S.  
 REPEATABILITY: ±0.05% F.S.  
 MATERIAL: Stainless Steel  
 TEMPERATURE RANGE: 60° to 160° F  
 OUTPUT: 0.5 psig - 1mv/psig  
 1 psi to 2 psi - 1-2 mv/v  
 5 psig to 60,000 psig - 3mv/v  
 BRIDGE RESISTANCE: 350 ohm  
 EXCITATION: 10 Vdc  
 SAFE OVERLOAD: 50% Over Capacity  
 PRESSURE PORTS: 1-10,000 psig see chart  
 15,000 psig to 60,000 psig - 9/16-18UNF per AE F250-C for 1/4 OD High Pressure Tubing  
 CABLE: As Required - mating conn. not incl. (PTO6A-10-6S)

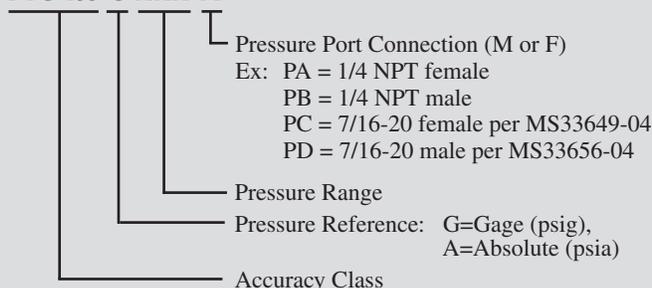
PTG 135 PRESSURE RANGES	D"	L"
1; 2; 5 psig	2.25	1.81
10; 15 psig	1.75	2.00
25; 50; 75; 100; 150; 200; 300; 500 psig	1.50	2.01
750; 1000; 1500, 2000, 3000; 5000 psig	1.50	2.35
7500; 10,000 psig	1.50	2.39
15,000; 20,000; 30,000; 50,000; 60,000 psig	1.50	2.21

PTG 230 PRESSURE RANGES	D"	L"
5	2.25	2.09
10, 15, 25, 50, 75, 100, 150, 200, 300, 500, 750	1.50	2.09
1000, 1500	1.50	2.35
2000, 3000, 5000, 7500, 10,000	1.50	2.39
15,000, 20,000, 30,000, 50,000, 60,000	1.50	2.21

\*Consult Cooper

Order Code Example:

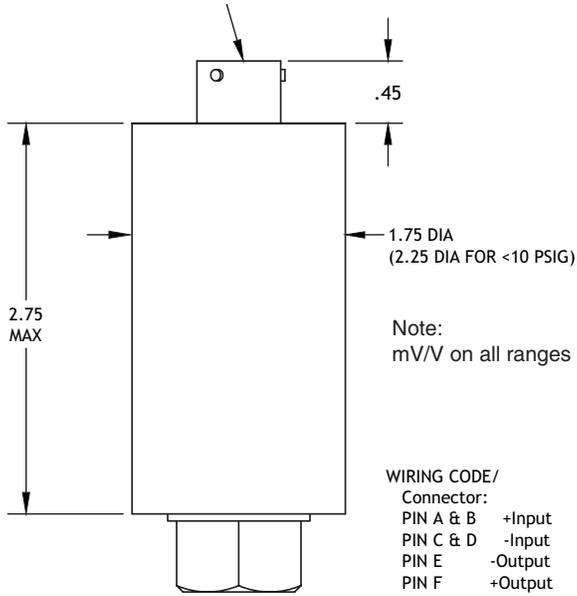
PTG 135-G-XXX-M



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## LOW RANGE MV/V

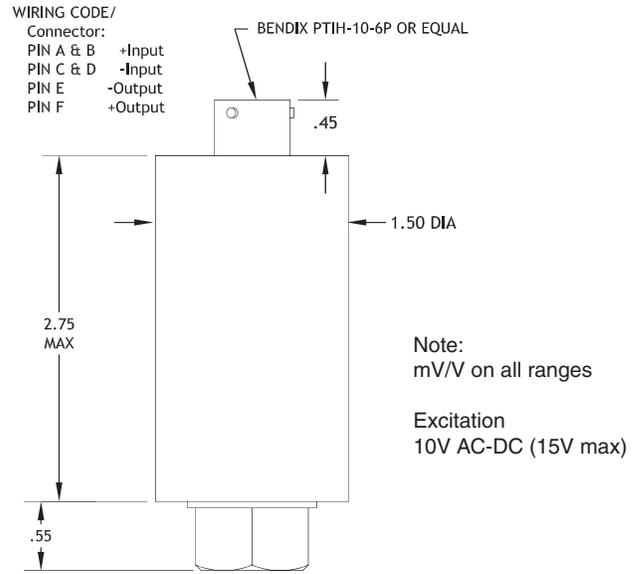
Pressure Ranges 0-0.5 to 0-20 psi



All dimensions are in inches, unless otherwise noted. Also available in metric units.

## MID RANGE MV/V

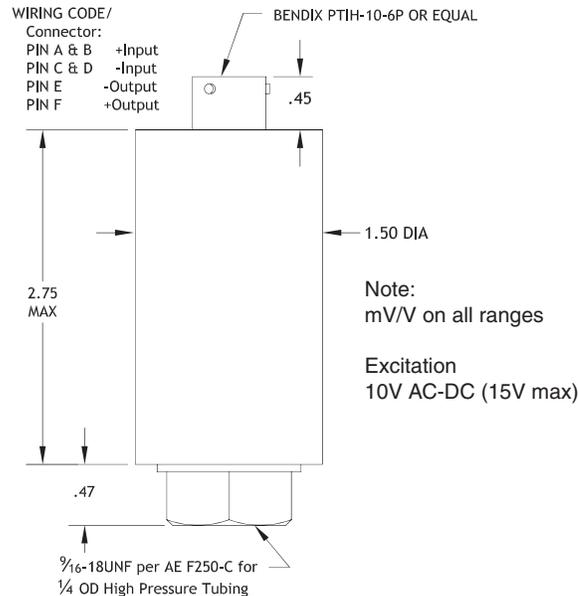
Pressure Ranges 0-25 to 0-10,000 psi



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## HIGH RANGE MV/V

Pressure Ranges 0-15,000 to 0-60,000 psi



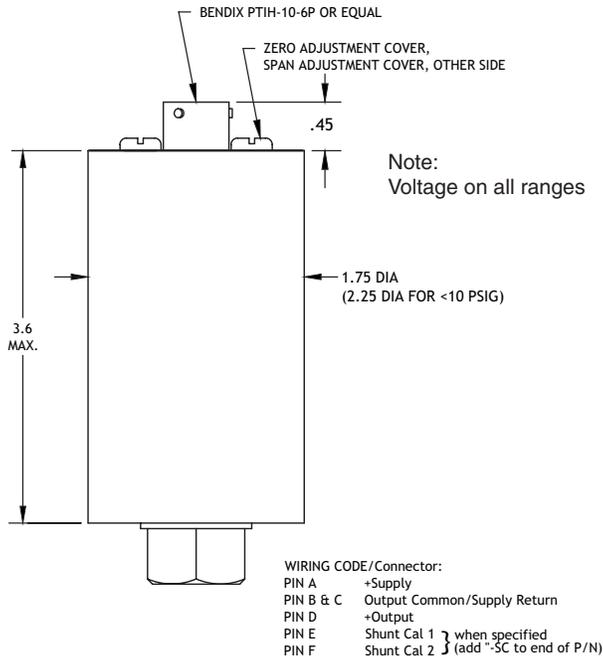
All dimensions are in inches, unless otherwise noted. Also available in metric units.

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## LOW RANGE VOLTAGE

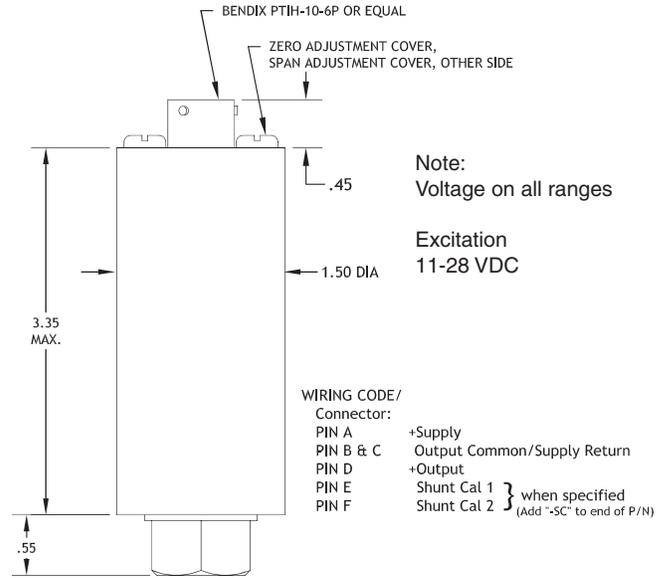
Pressure Ranges 0-0.5 to 0-20 psi



All dimensions are in inches, unless otherwise noted. Also available in metric units.

## MID RANGE VOLTAGE

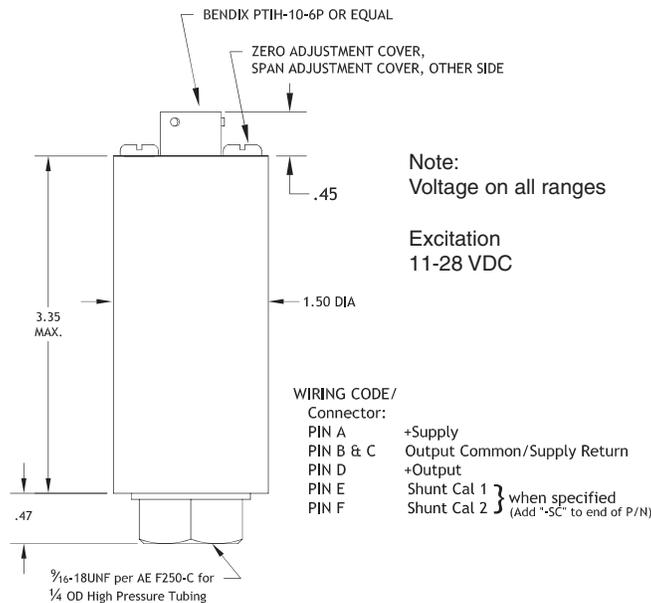
Pressure Ranges 0-25 to 0-10,000 psi



All dimensions are in inches, unless otherwise noted. Also available in metric units.

## HIGH RANGE VOLTAGE

Pressure Ranges 0-15,000 to 0-60,000 psi

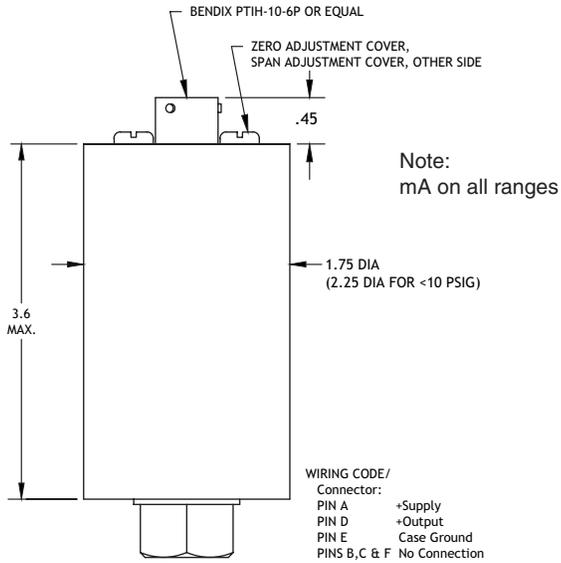


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## LOW RANGE CURRENT

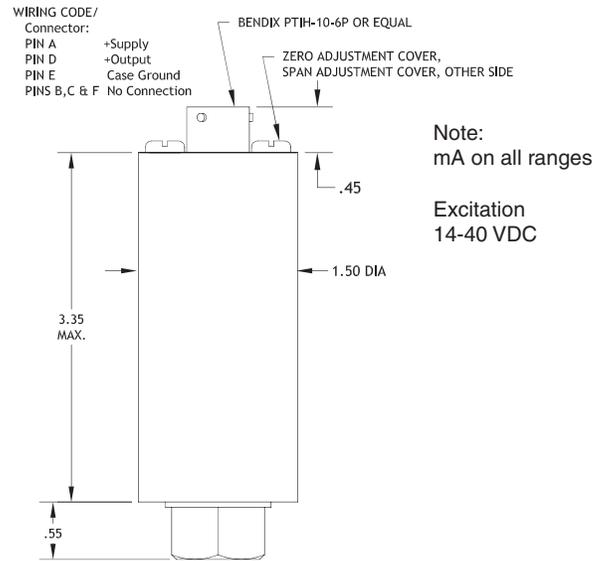
Pressure Ranges 0-1 to 0-20 psi



All dimensions are in inches, unless otherwise noted. Also available in metric units.

## MID RANGE CURRENT

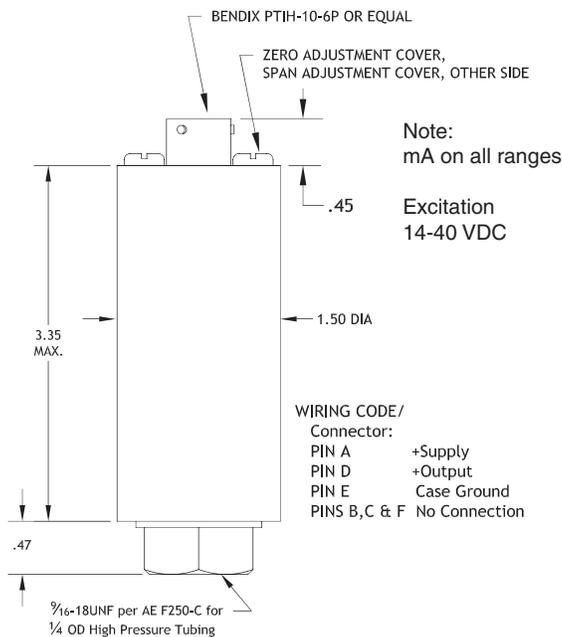
Pressure Ranges 0-25 to 0-10,000 psi



All dimensions are in inches, unless otherwise noted. Also available in metric units.

## HIGH RANGE CURRENT

Pressure Ranges 0-15,000 to 0-60,000 psi



All dimensions are in inches, unless otherwise noted. Also available in metric units.