



INTRINSICALLY SAFE PRESSURE TRANSDUCER



Model 311 Z, I, GI, AI
Intrinsically Safe Pressure Transducer



MODEL 311Z, I, GI, AI

FEATURES:

- 0 to 5 PSI thru 0 to 75K PSI (75 Mbar to 1,034 BAR)
- FM, CSA, ATEX & IEC approvals
- Welded, rugged construction
- Optional high overpressure protection

APPLICATIONS:

- Rig safety systems
- Wellhead control
- Gas pipeline
- Control Panels
- On-board transmission & engine monitoring

PRODUCT OVERVIEW:

The GP:50 Model 311 Z, I, GI, AI intrinsically safe pressure transducer for Blue Ribbon Corporation offers a rugged solution in hazardous approved areas. The transducer's all-welded stainless steel design provides years of reliable service in some of the harshest applications.

FIELD OPTIONS:

- FM, CSA, ATEX, IEC Intrinsically Safe
- Zero & Span adjust
- Alternate connectors & pressure ports
- For explosion-proof, see Model 311X/P

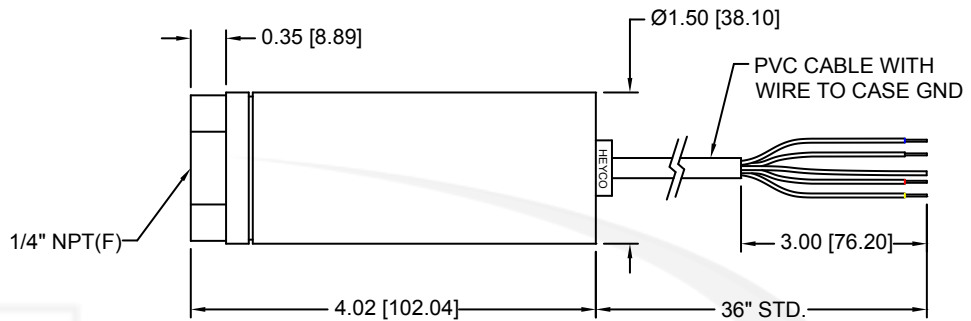
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DIMENSIONAL DRAWING

All dimensions are in inches (mm)

STANDARD WIRING

WIRE	MODEL 311Z/I/GI/Al
1/RED	+EXC/SIG
2/GRN	CASE GND
3/WHT	N/C
4/BLK	-EXC/SIG



REFERENCE SPECIFICATIONS

ELECTRICAL	MECHANICAL
<ul style="list-style-type: none"> Excitation Voltage: (311Z): 9 to 36 Vdc excitation (311I, GI, Al): 10 to 28 Vdc excitation Output Signal: 4-20 mA output Load Impedance: 750 Ω max. to 24 Vdc Insulation Resistance: >10 MΩ @ 50 Vdc, +70 °F Response Time: 5 ms 10% to 90% Connection: 36" long PVC Jacketed, 18 AWG , 4 conductor cable (or equivalent) 	<ul style="list-style-type: none"> Zero Balance and FSO: ±1% FSO at +70 °F Process connection: 1/4" NPT (F) for ranges <20 KPSI (1.4 BAR) High pressure coned fittings for ranges 20K to 75K PSI Proof Pressure: 2X FSO or 22,500 PSI (1,551 BAR), whichever is less Burst Pressure: 5X FSO or 22,500 PSI (1,551 BAR), whichever is less Approximate Weight: 10 oz, (0.3 kg) nominal, options may increase weight
MATERIALS OF CONSTRUCTION	PRESSURE RANGES
<ul style="list-style-type: none"> Wetted Parts: 316 or 17-4 PH stainless steel (options available, consult factory) Housing: 316 stainless steel 	<ul style="list-style-type: none"> 0 to 5 thru 0 to 75K PSI (0 to 0.3 thru 0 to 5,171 BAR) (PSIG, PSIS, PSIA, PSIV & Compound ranges available)
STATIC ACCURACY (HYSTERESIS, NON-LINEARITY & REPEATABILITY @ +70 °F)	THERMAL SPECIFICATIONS
<ul style="list-style-type: none"> Standard: ±0.5% Improved: ±0.20% and ±0.1% 	<ul style="list-style-type: none"> Compensated: 0 °F to +180 °F (-18 °C to +82 °C) Operating Process: -40 °F to +176 °F (-40 °C to +80 °C) Storage: -65 °F to +250 °F (-53 °C to +121 °C) Effect on Zero/Span: ±2.0% FSO/100 °F

All specifications are for reference purposes only. In the interests of continuous product improvement, all specifications are subject to change without notice. Please contact Blue Ribbon Corporation for assistance with your application.