COMPACT INDUSTRIAL PRESSURE TRANSDUCER

MODEL BR140, 240, 340



Model BR140 / 240 / 340
Compact Industrial
Pressure Transducer

FEATURES:

- Compact design for ease of installation
- Rugged, all stainless, welded construction
- Ranges 0 to 1 PSI thru 0 to 30K PSI (69 Mbar to 2068 Bar)
- 4-20mA, Vdc or MV/V output
- Optional process and electrical connections

APPLICATIONS:

- Automotive
- Industrial OEM
- On-board vehicle
- Compressor Controls
- Pneumatic/ Hydraulic Controls

PRODUCT OVERVIEW:

The model 40 series provides a compact, rugged design to meet the demands of hydraulic and pneumatic applications found in process automation, test stand, and OEM applications. Its rugged stainless steel design offers high corrosion resistance in pressure ranges from 0-25" WC (69 Mbar) to 30K PSI (2068 bar).

FIELD OPTIONS:

- Shunt calibration for active line testing without a pressure source
- Comprehensive list of process and electrical connections for existing application retrofits
- Exotic materials available
- For Hazardous locations see model 240-AI/340-AI

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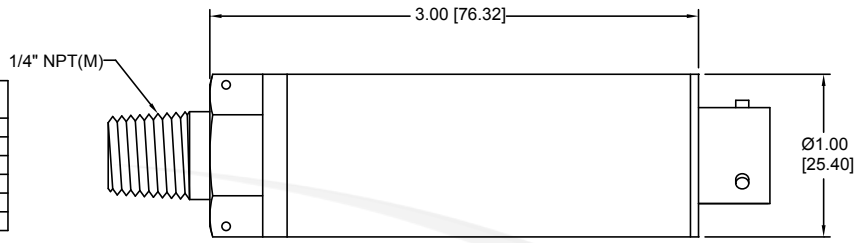
DIMENSIONAL DRAWING

All dimensions are in inches (mm)

STANDARD WIRING

PIN	MODEL 140	MODEL 240	MODEL 340
A/1/RED	+EXC	+EXC	+EXC/SIG
B/2/GRN	+SIG	+SIG	N/C
C/3/WHT	-SIG	N/C	N/C
D/4/BLK	-EXC	-EXC/SIG	-EXC/SIG
E/5/BLU	N/C	N/C	N/C
F/6/BRN	N/C	N/C	N/C



REFERENCE SPECIFICATIONS

ELECTRICAL

- **Excitation Voltage:**
  (Model 140) 5.0 to 15 Vdc typical
  (Model 240) 9 to 36 Vdc
  (Model 340) 9 to 36 Vdc
- **Output Signal:**
  (Model 140) Varies by range and accuracy:
  0-1 PSI thru 0-2,000 PSI: 3.0 mV/V (Optional 5 to 10 mV/V)
  >2,000 - 15,000 PSI: from 1.0 to 3.0 mV/V
  >15K PSI: from 1.0 to 2.5 mV/V
  (Model 240) 0-5Vdc, 0-10Vdc
  (Model 340) 4-20mA
- **Bridge Resistance:**
  (Model 140) ~5000 Ω
- **Circuit Protection:** RFI, EMI & Reverse Polarity protected

Response Time: ~1 mSec

MATERIALS OF CONSTRUCTION

- **Wetted Parts:**
  ≤1000 PSI 316L SST w/Fomblin oil fill (May contain Silicone oil fill)
  >1000 PSI 17-4 PH SST (Inconel available, consult factory)
- **Housing:** 316 stainless steel
- **Internal Fill:** (See Wetted Parts)

STATIC ACCURACY (BFSL - HYSTERESIS, NON-LINEARITY & REPEATABILITY @ +70 °F)

- **Standard** ±0.25% FSO
- **Improved** ±0.10%
- **Zero Balance and FSO:** ±1.0% FSO at +70 °F (+21 °C) for each

MECHANICAL

- **Process Connection:** 1/4" NPT (M) standard (options available)
- **Electrical Connection:** Bendix PT1H-10-6 or equivalent standard, options available
- **Proof Pressure:** 2X FSO
- **Burst Pressure:** 5X FSO
- **Approximate Weight:** 0.5 lb (0.22 kg)
  (some options may affect weight)

PRESSURE RANGES

- 0 to 1 PSI thru 0 to 30K PSI, some options may affect range (PSIG, PSIS, PSIA, PSIV & compound ranges available)

THERMAL SPECIFICATIONS

- **Compensated:** 0 °F to +180 °F (-17.7 °C to +82 °C)
- **Operating:** -40 °F to +250 °F (-40 °C to +121 °C)
- **Storage Ambient:** -65 °F to +250 °F (-53 °C to +121 °C)
- **Effect on Zero/Span:** ±1.0% FSO/100 °F

Improved or expanded temperature compensation available

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.

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