



## 100 SERIES

- Vacuum and compound ranges through 0 psig to 15,000 psig
- Current output
- 316 and 17-4PH stainless steel wetted parts
- CE compliant to suppress RFI, EMI and ESD

### APPLICATIONS

- HVAC
- Hydraulics & pneumatics
- Injection molding machines
- Railroad equipment
- Stamping & forming presses

### SPECIFICATIONS

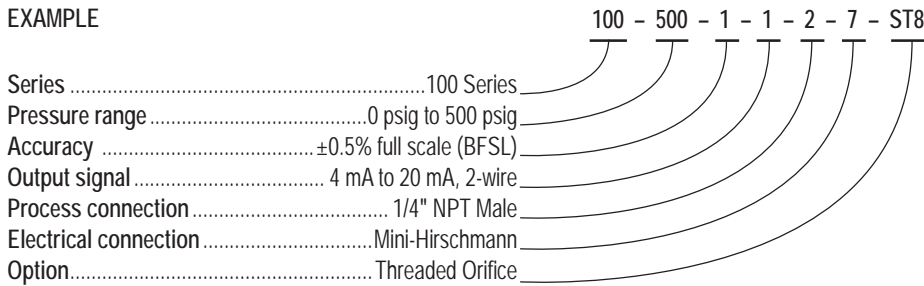
|                        |  |
|------------------------|--|
| Output signal          | 4 mA to 20 mA, 2-wire  |
| Pressure ranges        | Vacuum through 0 psig to 15,000 psig<br>Absolute from 0 psia to 15 psia through 0 psia to 300 psia   |
| Accuracy               | ±0.5% full scale (BFSL); optional ±0.25% full scale (BFSL);<br>(Includes the effects of non-linearity, hysteresis, non-repeatability, zero point and full scale errors)  |
| Stability              | ≤ ±0.2% full scale for 1 year, non-accumulating  |
| Adjustment             | ≤ ±10% full scale for zero and span  |
| Response time          | ≤ 1 ms (between 10% and 90% full scale)  |
| Pressure cycle limit   | 150 Hz   |
| Durability             | > 100,000,000 full scale cycles  |
| Temperature ranges     | Compensated 32 °F to 176 °F (0 °C to 80 °C)<br>Effect ±0.017% full scale/ °F for zero and span<br>Media -22 °F to 212 °F (-30 °C to 100 °C)<br>Ambient -40 °F to 185 °F (-40 °C to 85 °C)<br>Storage -40 °F to 212 °F (-40 °C to 100 °C) |
| Power requirement*     | 10 Vdc to 30 Vdc (4 mA to 20 mA, 2-wire)   |
| Load limitations       | ≤ (Vpower supply -10)/0.020 Amp  |
| Proof pressure         | 3 times full scale for ranges 0 psi to 5 psi through 0 psi to 200 psi<br>1.75 times full scale for ranges 0 psi to 300 psi through 0 psi to 10,000 psi<br>1.5 times full scale for 0 to 15,000 psi                                       |
| Burst pressure         | 3.8 times full scale for ranges 0 psi to 5 psi through 0 psi to 200 psi<br>4 times full scale for ranges 0 psi to 300 psi through 0 psi to 10,000 psi<br>3 times full scale for 0 psi to 15,000 psi                                      |
| Measuring element      | 316 stainless steel for vacuum through 300 psi;<br>17-4PH stainless steel for ≥500 psi   |
| Connection             | 316 stainless steel  |
| Housing material       | 316 stainless steel  |
| Environmental rating   | IP65   |
| Electromagnetic rating | CE compliant to EMC norm EN 61326:1997/A1:1998<br>RFI, EMI and ESD protection  |
| Electrical protection  | Reverse polarity, over-voltage and short circuit protection  |
| Shock                  | 1000 g's according to IEC 60068-2-27   |
| Vibration              | 30 g's according to IEC 60068-2-6  |
| Weight                 | Approximately 3.5 oz.  |

\* Unregulated

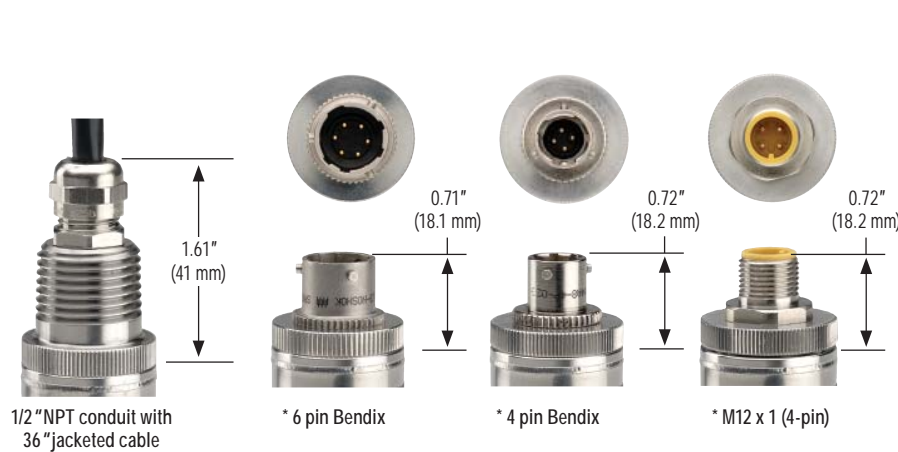
| ORDERING INFORMATION   |        |                                   |                       |                                |                          |  |       |                       |      |                                   |
|------------------------|--------|-----------------------------------|-----------------------|--------------------------------|--------------------------|--|-------|-----------------------|------|-----------------------------------|
| SERIES                 | 100    |                                   |                       |                                |                          |  |       |                       |      |                                   |
| PRESSURE RANGES        | 30vac  | -30 inHg to 0 psig                | 5                     | 0 psig to 5 psig               | 200                      | 0 psig to 200 psig                         | 3000  | 0 psig to 3,000 psig  | 15A  | 0 psia to 15 psia                 |
|                        | 30/15  | -30 inHg to 15 psig               | 10                    | 0 psig to 10 psig              | 300                      | 0 psig to 300 psig                         | 4000  | 0 psig to 4,000 psig  | 30A  | 0 psia to 30 psia                 |
|                        | 30/30  | -30 inHg to 30 psig               | 15                    | 0 psig to 15 psig              | 500                      | 0 psig to 500 psig                         | 5000  | 0 psig to 5,000 psig  | 60A  | 0 psia to 60 psia                 |
|                        | 30/45  | -30 inHg to 45 psig               | 25                    | 0 psig to 25 psig              | 600                      | 0 psig to 600 psig                         | 6000  | 0 psig to 6,000 psig  | 100A | 0 psia to 100 psia                |
|                        | 30/100 | -30 inHg to 100 psig              | 30                    | 0 psig to 30 psig              | 750                      | 0 psig to 750 psig                         | 7500  | 0 psig to 7,500 psig  | 150A | 0 psia to 150 psia                |
|                        | 30/150 | -30 inHg to 150 psig              | 60                    | 0 psig to 60 psig              | 1000                     | 0 psig to 1,000 psig                       | 10000 | 0 psig to 10,000 psig | 200A | 0 psia to 200 psia                |
|                        | 30/200 | -30 inHg to 200 psig              | 100                   | 0 psig to 100 psig             | 1500                     | 0 psig to 1,500 psig                       | 15000 | 0 psig to 15,000 psig | 300A | 0 psia to 300 psia                |
|                        | 30/300 | -30 inHg to 300 psig              | 150                   | 0 psig to 150 psig             | 2000                     | 0 psig to 2,000 psig                       |       |                       |      |                                   |
|                        |        |                                   | psig = gauge pressure |                                | psia = absolute pressure |  |       |                       |      | Other ranges available on request |
| ACCURACIES             | 1      | ±0.5% full scale (BFSL)           | 2                     | ±0.25% full scale (BFSL)       |                          |  |       |                       |      |                                   |
| OUTPUT SIGNAL          | 1      | 4 mA to 20 mA, 2-wire             |                       |                                |                          |  |       |                       |      |                                   |
| PROCESS CONNECTIONS    | 1      | 1/8" NPT male                     | 3                     | SAE J1926-3:7/16-20 Adjustable | 9                        | SAE J1926-1:7/16-20                        |       |                       |      |                                   |
|                        | 2      | 1/4" NPT male                     | 4                     | 1/8" NPT female                | 10                       | G1/4 male                                  |       |                       |      |                                   |
| ELECTRICAL CONNECTIONS | 1      | 36" cable (connected to option 7) |                       |                                | 6                        | 1/2" NPT conduit (with 36" cable)          | 25    | M12 x 1 (4-pin)       |      |                                   |
|                        | 2      | 4-pin Bendix                      |                       |                                | 7                        | Mini-Hirschmann (DIN EN 175301-803 Form C) | 36    | Integral cable 36"    |      |                                   |
|                        | 3      | 6-pin Bendix                      |                       |                                |                          |  |       |                       |      |                                   |
| OPTION                 | ST8    | Threaded Orifice                  |                       |                                |                          |  |       |                       |      |                                   |

Please consult your local NOSHOK Distributor or NOSHOK, Inc. for availability and delivery information.

EXAMPLE



| Load Limitations<br>4 mA to 20 mA output |
|--|
| Vmin = 10V + (.020 x RL)                 |
| RL = Loop resistance (Ω)<br>RL = RS + RW |
| RS = Sensor resistance (Ω)               |
| RW = Wire resistance (Ω)                 |



| WIRING   |                          |                 |       |         |
|----------|--------------------------|-----------------|-------|---------|
| Wire     | Bendix<br>4-pin or 6-pin | Mini-Hirschmann | Cable | M12 x 1 |
| + Supply | pin A                    | pin 1           | Red   | pin 1   |
| + Output | pin B                    | pin 2           | Black | pin 3   |

\* Note: Mate supplied separately or customer supplied.