

## AT102 AXIAL TORSION FORCE & TORQUE TRANSDUCER (U.S. & METRIC)

### FEATURES & BENEFITS

- Capacity: Force kN(lbf) / Torque Nm(lbf-in) – 10(2.25K) / 10(88.5)
- Compact design
- Side cable exit

### OPTIONS

- Internal shunt resistor – 100% output

### SPECIFICATIONS

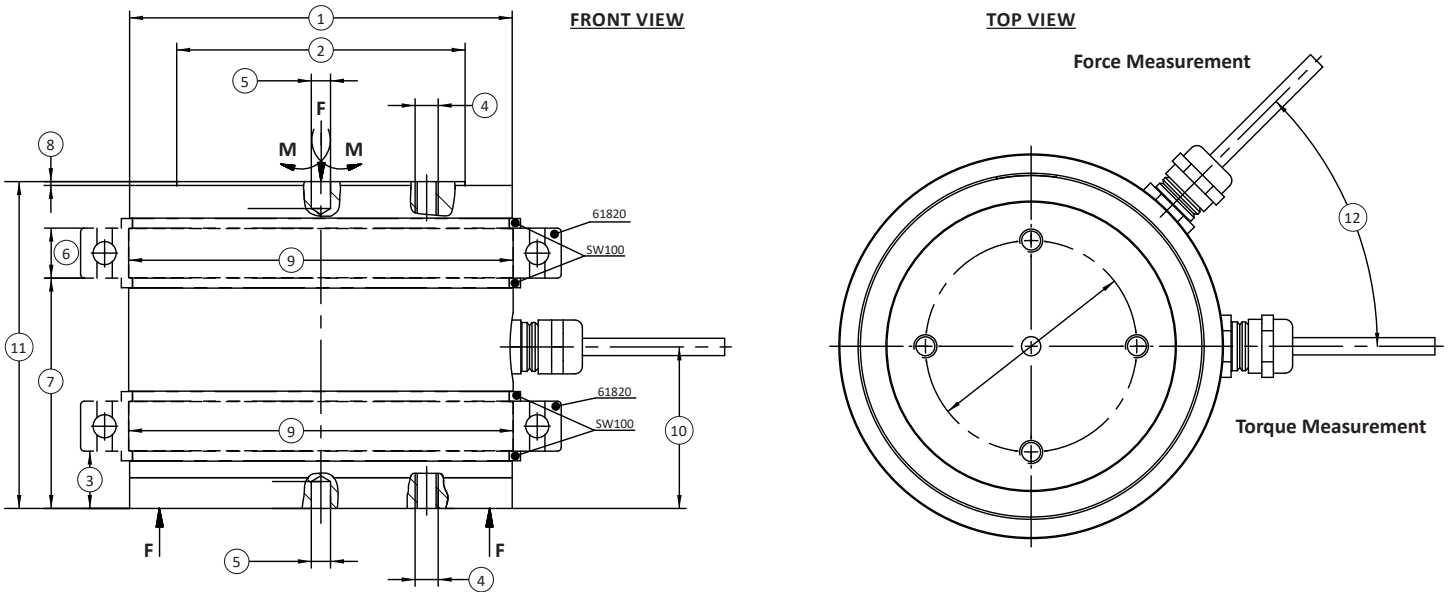
| ACCURACY – (MAX ERROR)     |    |                     |
|----------------------------|----|---------------------|
| Nonlinearity – Torque %FS  |    | ± 0.2               |
| Hysteresis – Torque %FS    |    | ± 0.2               |
| Nonrepeatability – %RO     |    | ± 0.08              |
| Cross Talk – %FS           |    | < 1                 |
| Creep, in 30 min – %       |    | ± 0.1               |
| TEMPERATURE                |    |                     |
| Effect on Zero – %RO / deg | °C | ± 0.02              |
| Effect on Output – % / deg | °C | ± 0.02              |
| Compensated Range          | °C | -10 to +50          |
|                            | °F | +14 to +122         |
| Operating Range            | °C | -30 to +80          |
|                            | °F | -22 to +176         |
| ELECTRICAL                 |    |                     |
| Output – mV/V ± %          |    | 1 ±15               |
| Excitation Voltage – VDC   |    | 2-12                |
| Bridge Resistance – Ohm    |    | 350                 |
| Electrical Connection      | m  | 2 cables (3 each)   |
|                            | ft | 2 cables (9.8 each) |
| MECHANICAL                 |    |                     |
| Safe Overload – %RO        |    | 150                 |
| IP Rating                  |    | IP40                |
| Material                   |    | Alloy steel         |

### STANDARD CONFIGURATION



Model AT102 (Shown)

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### DIMENSIONS

| See Drawing | Metric (kN/Nm)            | U.S. (lbf/lbf-in)            |
|-------------|---------------------------|------------------------------|
|             | 10/10<br>mm               | 2.25K/88.5<br>in             |
| (1)         | $\varnothing 99.5^{-0.2}$ | $\varnothing 3.92^{-0.008}$  |
| (2)         | $\varnothing 75^{-0.1}$   | $\varnothing 3.0^{-0.004}$   |
| (3)         | 15                        | 0.6                          |
| (4)         | M6 $\downarrow$ 8         |                              |
| (5)         | $\varnothing 5$ H7        | $\varnothing(1.1835/1.1827)$ |
| (6)         | 13                        | 0.5                          |
| (7)         | 60                        | 2.4                          |
| (8)         | 1                         | 0.04                         |
| (9)         | $\varnothing 100$ g6      | $\varnothing(3.9365/3.9357)$ |
| (10)        | 42                        | 1.7                          |
| (11)        | 85                        | 3.3                          |
| (12)        | 45°                       |                              |