

Reaction Torque Sensors

01190 Series

SOCKET EXTENSION TORQUE SENSOR

These strain gage-based sensors are designed for static and limited rotation torque measurement applications, such as drive socket systems, calibration of hand and click wrenches, and checking applied torque values. They are available in ten capacities. All use a full, four-arm Wheatstone Bridge circuit and have an elastomer coating to protect against mechanical damage. SDI's Auto-ID connector is optional.



SPECIFICATIONS

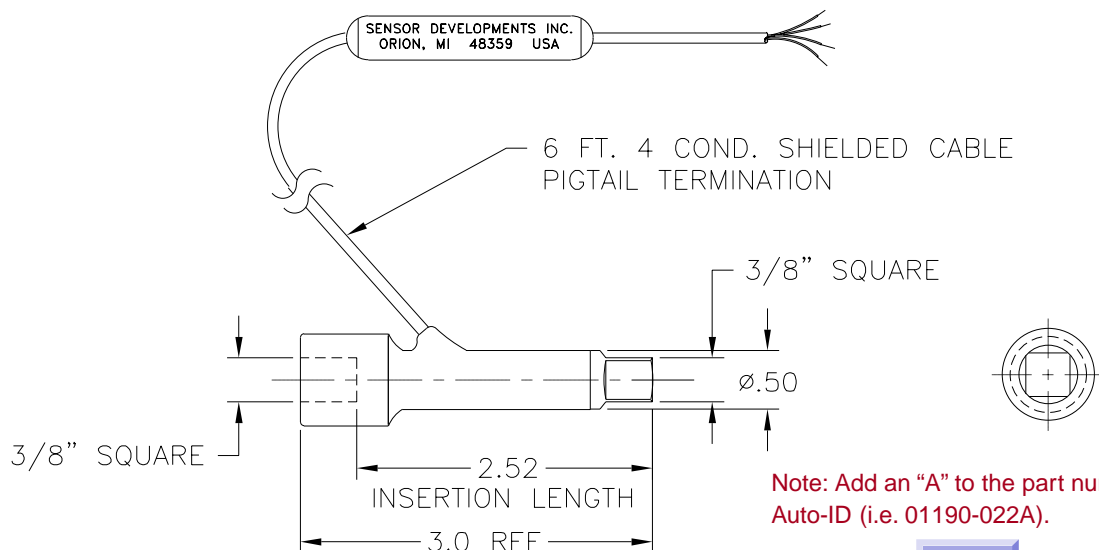
Capacity..... 25 in.lb. to 7,000 ft.lb. (See chart)
 Overload capacity..... 150% of F.S.
 Output at F.S..... See chart
 Non-linearity..... 0.10% of F.S.
 Hysteresis..... 0.10% of F.S.
 Zero balance..... 1.00% of F.S.
 Compensated temperature..... 70 to 170°F
 Useable temperature..... -65 to +250°F
 Temperature effect on zero..... 0.002% of F.S./°F
 Temperature effect on span..... 0.002% of Rdg./°F
 Bridge resistance..... 1000 Ohms
 Excitation voltage, maximum..... 20 Vdc
 Material..... Alloy Steel

DIMENSIONS

| MODEL | CAPACITY | | | DRIVE IN | TYPE | A | B | C | OUTPUT (mV/V) |
|-----------|----------|-------|------|-------------|--------|------|------|-------|------------------|
| | IN LB | FT LB | NM | | | IN | IN | IN | NOM. |
| 01190-250 | 25 | 2 | 3 | 1/4 | Square | 3.0 | 1/2 | .44 | 1.00 |
| 01190-051 | 50 | 4 | 6 | | | | | | 2.00 |
| 01190-121 | 125 | 10 | 14 | | | | | | 1.50 |
| 01190-022 | 200 | 17 | 22 | 3/8 | | .70 | 0.50 | 3.00 | |
| 01190-062 | 600 | 50 | 68 | 1/2 | | 3.5 | .97 | | 0.75 |
| 01190-152 | 1500 | 125 | 170 | | | | | 3/4 | |
| 01190-242 | 2400 | 200 | 271 | 1 | | 6.0 | 1.74 | | 1.65 |
| 01190-063 | 6000 | 500 | 680 | | | | | 1 1/2 | |
| 01190-123 | 12000 | 1000 | 1355 | 1 1/2 | | 2.73 | 2.28 | | 2.80 |
| 01190-843 | 84000 | 7000 | 9490 | | | | | 2.80 | |

OPTIONAL DISPLAY UNITS INCLUDE:

- PMAC 2000, Model 90222
- PTI, peak track instrument, Model 90323



Note: Add an "A" to the part number for Auto-ID (i.e. 01190-022A).

DWG



ORDER TOLL FREE 1-888-SENSOR-1