TQ502A Series

Ideal for Use with Production Fastening Applications

Bi-directional Measurement

Ideal for Use with Drive/Socket Systems

Used for Static or Dynamic Torque Measurement

SPECIFICATIONS

Rated Output: 1.5 to 3 mV/V nominal (calibration sheet provided)
Excitation: 20 Vdc maximum
Linearity: ±0.10% FS
Hysteresis: ±0.10% FS
Repeatability: ±0.1% FS
Zero Balance: ±1.0% FS
Operating Temp Range: -55 to 120°C (-65 to 250°F)
Compensated Temp Range: 21 to 75°C (70 to 167°F)

Thermal Effects:
Zero: ±0.002% FS/°F
Span: ±0.002% rdg/°F

Overload Capacity: 150% FS
Bridge Resistance: 1000 Ω

Maximum rpm: 5000

Construction:
Sensor: Alloy steel
Housing: Alloy aluminum

Electrical: Mating connector supplied

ORDER OPTIONS

ORDER SUFFIX DESCRIPTION
-MB Mounting foot
-EN1024 1024 ppr angle encoder

To Order
Visit omega.com/tq502a for Pricing and Details

MODEL NO.  CAPACITY  DRIVE  OUTPUT  COMPATIBLE METERS*

| TQ502A-50 | 50  | 4  | 6  | ¼" | 2.0 mV/V | DP41-S, DP25B-S, MDS-41S |
| TQ502A-125 | 125 | 10 | 14 | ¼" | 2.0 mV/V | DP41-S, DP25B-S, MDS-41S |
| TQ502A-200 | 200 | 16 | 23 | ¼" | 1.5 mV/V | DP41-S, DP25B-S, MDS-41S |
| TQ502A-600 | 600 | 50 | 68 | ¾ "| 3.0 mV/V | DP41-S, DP25B-S, MDS-41S |
| TQ502A-1.5K | 1500 | 125 | 170 | ¼" | 3.0 mV/V | DP41-S, DP25B-S, MDS-41S |
| TQ502A-2.4K | 2400 | 200 | 271 | ¾ "| 3.0 mV/V | DP41-S, DP25B-S, MDS-41S |

Comes complete with operator’s manual and calibration data sheet.
* Visit omega.com for complete details.

Ordering Examples:
TQ502A-600, socket extension rotary torque sensor with ¼" square drive, 0 to 600 in-lb range.
TQ502A-125, socket extension rotary torque sensor with ¼" square drive, 0 to 125 in-lb range.