

# REACTION TORQUE SENSORS

## FLANGE-TO-SHAFT MOUNT LOW TORQUE RANGE

### STANDARD AND METRIC MODELS

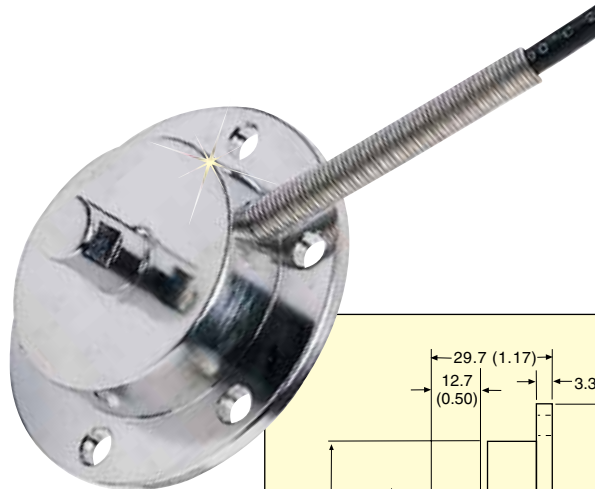
**Reaction Torque**  
**0-25 oz-inch to 0-250 inch-lb**  
**0-0.18 N-m to 0-30 N-m**

## TQ202/TQM202 Series

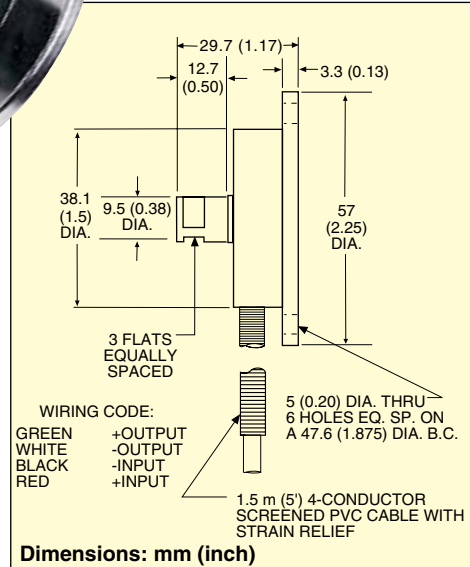


- ✓ All Stainless Steel Case for Long-Term Reliability in Industrial Environments
- ✓ High Accuracy
- ✓ Shielded Cable for Precise Low-Noise Measurements
- ✓ Heavy-Duty Mounting for Positive, Non-Slip Connection

OMEGA's TQ202/TQM202 Series torque sensors are small, high-accuracy flange- or surface-mount devices designed for measuring reaction torque forces up to 250 inch-lb. The shaft attachment has 3 equally spaced flat surfaces to ensure non-slip mounting without the use of a key. The all stainless steel construction ensures long life in industrial environments, as well as long-term accuracy.



TQ202-100Z shown actual size.



### SPECIFICATIONS

- Output:** 2 mV/V
- Excitation:** 10 Vdc, 15V maximum
- Input Resistance:** 360 Ω minimum
- Output Resistance:** 350 ±5 Ω
- Accuracy:** ±0.2% FSO (combined linearity, hysteresis and repeatability)
- Zero Balance:** ±2% FSO
- Compensated Temp Range:** 16 to 71°C (60 to 160°F)
- Operating Temp Range:** -54 to 107°C (-65 to 225°F)
- Thermal Effects:**
  - Zero:** 0.005% FSO/°F
  - Span:** 0.005% rdg/°F

- Safe Overload:** 150% of capacity
- Ultimate Overload:** 300% of capacity
- Construction:** Stainless steel
- Electrical:** 1.5 m (5') 4-conductor shielded PVC cable with strain relief
- Protection Class:** IP65

To Order				
STANDARD RANGE	STANDARD MODEL NO.	METRIC RANGE	METRIC MODEL NO.	COMPATIBLE METERS*
0 to 25 oz-inch	TQ202-25Z	0 to 0.175 N-m	TQM202-0.175	DP41-S, DP25B-S
0 to 30 oz-inch	TQ202-30Z	0 to 0.20 N-m	TQM202-0.2	DP41-S, DP25B-S
0 to 100 oz-inch	TQ202-100Z	0 to 0.70 N-m	TQM202-0.7	DP41-S, DP25B-S
0 to 120 oz-inch	TQ202-120Z	0 to 0.85 N-m	TQM202-0.85	DP41-S, DP25B-S
0 to 150 oz-inch	TQ202-150Z	0 to 1.0 N-m	TQM202-1	DP41-S, DP25B-S
0 to 200 oz-inch	TQ202-200Z	0 to 1.4 N-m	TQM202-1.4	DP41-S, DP25B-S
0 to 25 inch-lb	TQ202-25	0 to 2.8 N-m	TQM202-2.8	DP41-S, DP25B-S
0 to 50 inch-lb	TQ202-50	0 to 5.6 N-m	TQM202-5.6	DP41-S, DP25B-S
0 to 100 inch-lb	TQ202-100	0 to 11 N-m	TQM202-11	DP41-S, DP25B-S
0 to 250 inch-lb	TQ202-250	0 to 28 N-m	TQM202-28	DP41-S, DP25B-S

Comes complete with 5-point calibration.

\* Visit us online for compatible meters.

**Ordering Examples:** TQ202-25Z, 25 oz-in range reaction torque sensor.

TQ202-100, 100 in-lb range reaction torque sensor.