

1216 AXIAL TORSION LOAD CELL (U.S. & METRIC)

FEATURES & BENEFITS

- Measures load and torque
- Minimal crosstalk
- Extraneous load resistance
- Fatigue rated

SPECIFICATIONS

	Axial Bridge A	Torsion Bridge B	
ACCURACY – (MAX ERROR)			
Nonlinearity – %FS	±0.04	±0.07	
Hysteresis – %FS	±0.04	±0.05	
Nonrepeatability – %RO	±0.02	±0.05	
Creep, in 20 min – %	±0.025	±0.025	
TEMPERATURE			
Effect on Zero – %RO / 100°F MAX	±0.08	±0.08	
Effect on Output – % / 100°F MAX	±0.08	±0.08	
Compensated Range	°F	+15 to +115	+15 to +115
	°C	-10 to +45	-10 to +45
Operating Range	°F	-65 to +200	-65 to +200
	°C	-55 to +90	-55 to +90
ELECTRICAL			
Rated Output – mV/V (Nominal)	1.50	1.80	
Zero Balance – %RO	±2.0	±2.0	
Input Resistance – Ohms	700 ±7	700 ±7	
Output Resistance – Ohms	700 ±7	700 ±7	
Excitation Voltage – VDC MAX	20	20	
MECHANICAL			
Calibration	T & C	CW & CCW	
Safe Overload – %CAP	±200	±200	
Ultimate Overload – %CAP	±400	±400	
Material	Aluminum		

STANDARD CONFIGURATION



Model 1216CEW-2K (Shown)

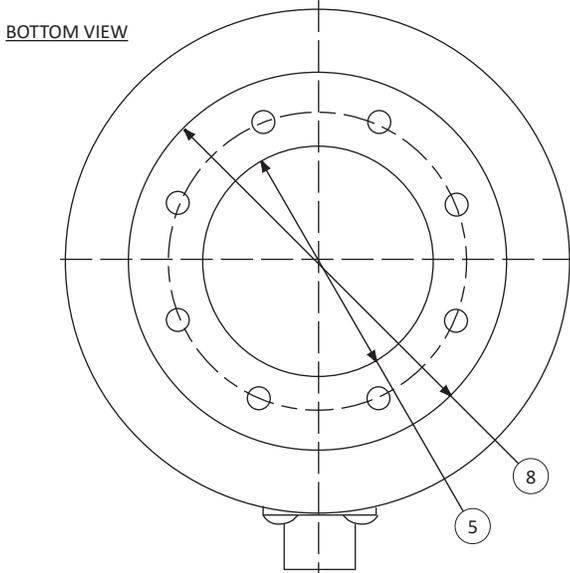
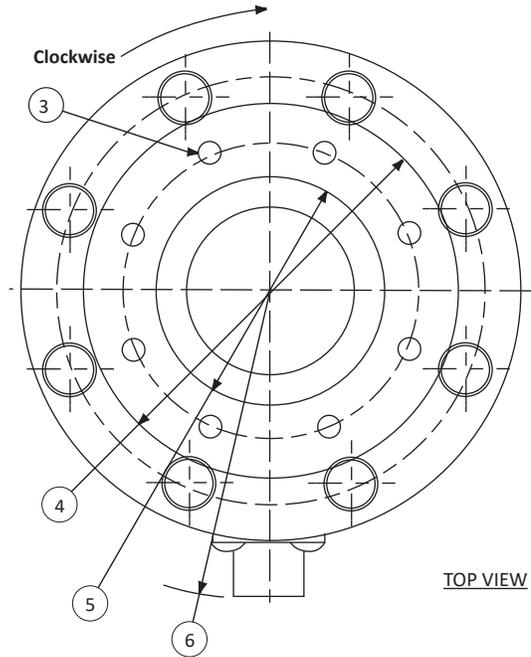
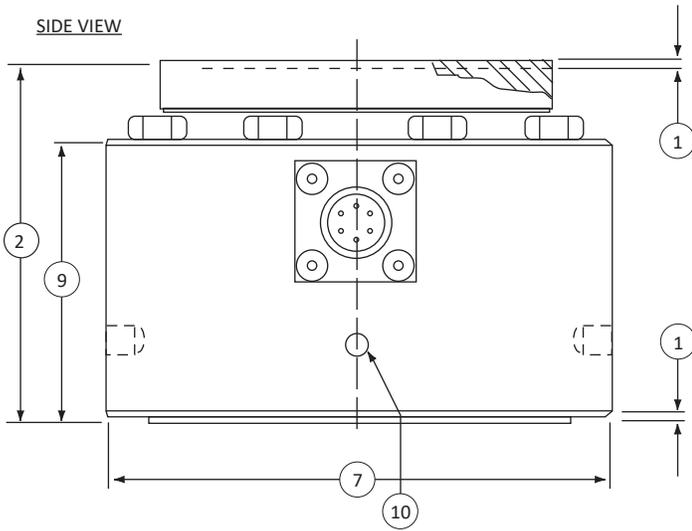
OPTIONS

- Connector protection
- Standardized output
- Transducer Electronic Data Sheet (TEDS)
- Custom calibration
- Special temperature range

ACCESSORIES

- Mating connector
- Instrumentation

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DIMENSIONS

See Drawing	CAPACITY	
	U.S. (lbf/lbf-in)	Metric (kN/Nm)
	250/125, 500/250, 1K/500, 2K/1K	1.11/14.1, 2.22/28.2, 4.45/56.5, 8.9/113
	in	mm
(1)	0.070	1.78
(2)	3.00	76.2
(3)	$\frac{1}{4}$ -28 UNF x \downarrow 0.43 on a 2.600 B.C.	M6 x 1-6H x \downarrow 10.9 on a 66.00 B.C.
(4)	\varnothing 3.20	\varnothing 81.3
(5)	\varnothing 2.000 (+0.002 / -0.000)	\varnothing 50.00 (+0.51/-0.00)
(6)	2.77	70.3
(7)	\varnothing 4.13	\varnothing 104.3
(8)	\varnothing 3.2	\varnothing 81.3
(9)	2.33	59.2
(10)	\varnothing 0.25 \downarrow 0.29	\varnothing 6.4 \downarrow 7.4