FORCE MEASUREMENT SOLUTIONS

2816 AXIAL TORSION LOAD CELL (U.S. & METRIC)

FEATURES & BENEFITS

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

SPECIFICATIONS

		Axial Bridge A	Torsion Bridge B
ACCURACY – (MAX ERROR)			
Nonlinearity – %FS		±0.05	±0.07
Hysteresis – %FS		±0.05	±0.05
Nonrepeatability – %RO		±0.02	±0.05
Creep, in 20 min – %		±0.025	±0.025
TEMPERATURE			
Effect on Zero – %RO / deg	°F	±0.0015	±0.0015
	°C	±0.0027	±0.0027
Effect on Output – % / deg	°F	±0.0008	±0.0008
	°C	±0.0015	±0.0015
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 (T & C)		+2.0 ±0.3 / -2.0 ±0.3	
Zero Balance – %RO MAX		±2.0	±2.0
Input Resistance – Ohms		350 ±3.5	700 ±7
Output Resistance – Ohms		350 ±3.5	700 ±7
Excitation Voltage – VDC MAX		20	20
MECHANICAL			
Calibration		T & C	CW & CCW
Safe Overload – %CAP MAX		±200	±200
Ultimate Overload – %CAP MAX		±400	±400
Material		Alloy steel	

STANDARD CONFIGURATION

MODEL 2816DYM-10K (Shown)

OPTIONS

- Connector protection
- Standardized output
- Transducer Electronic Data Sheet (TEDS)
- Custom calibration
- Multiple bridge
- Special threads
- Dual diaphragm
- Special temperature range
- Cable length
- Add connector to cable

CONNECTOR OPTIONS

- Integral cable 10 ft (3 m)
- PT02E-10-6P bayonet connector
- PC04E-10-6P screw-type connector

ACCESSORIES

- Mating connector
- Instrumentation
- Loading hardware

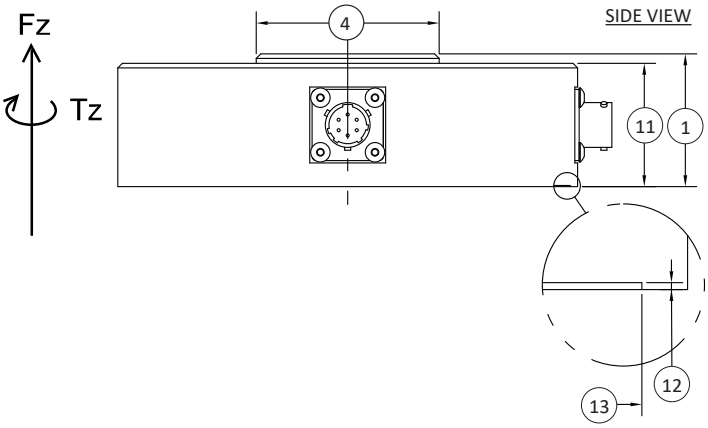
International System of Units (SI) dimensions and capacities are provided for conversion only. Standard products have U.S. capacities and dimensions. SI capacities available upon special request and at an additional cost.

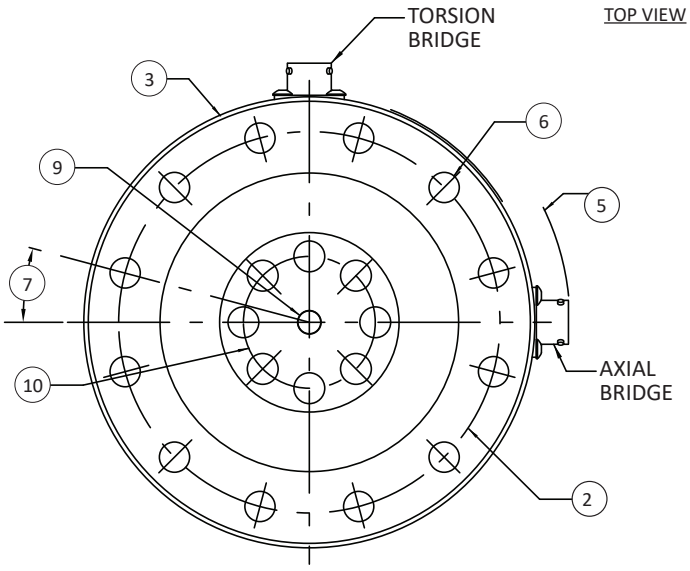
7418 East Helm Drive • Scottsdale, Arizona 85260 • 480.948.5555 • www.interfaceforce.com

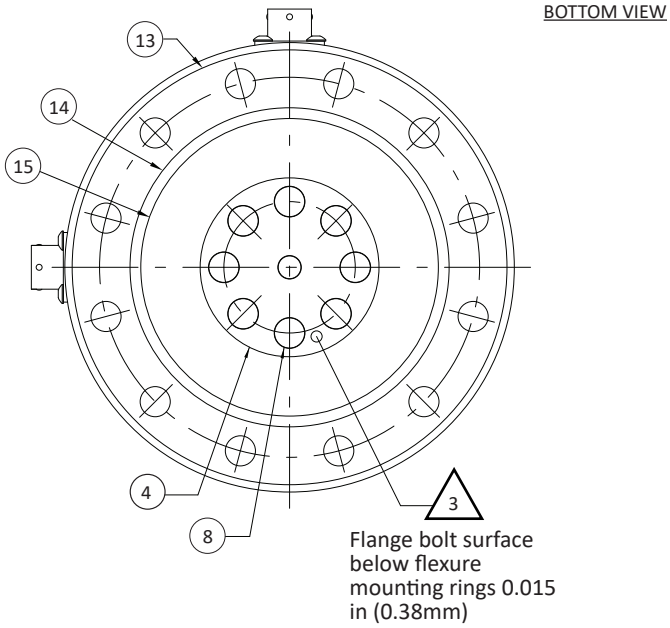
2816 AXIAL TORSION LOAD CELL (U.S. & METRIC)

DIMENSIONS

See Drawing	CAPACITY	
	U.S. (lbf/lbf-in)	Metric (N/Nm)
	3.3K/2K, 5K/3K 10K/6K, 15K/7.5K	16K/220, 25K/340 45K/680, 63K/900
	in	mm
1	1.75	44.4
2	5.120	130.18
3	6.06	153.9
4	2.41	61.2
5	3.55	90.2
6	0.41	10.3
7	15°	
8	Ø0.41 THRU, ⌵ 90°, Ø0.46	Ø10.5 THRU, ⌵ 90°, Ø11.7
9	Ø0.31 THRU, ⌴ Ø0.3155–3166, ↧ 0.39 – This side only	Ø7.8 THRU, ⌴ Ø8.014–8.042, ↧ 10.0 – This side only
10	1.772	45.00
11	1.62	41.3
12	0.015	0.38
13	Ø5.86	Ø148.8
14	Ø4.30	Ø109.2
15	Ø4.01	Ø101.9







7418 East Helm Drive • Scottsdale, Arizona 85260 • 480.948.5555 • www.interfaceforce.com