

TXY MULTI-AXIS LOAD CELL (U.S. & METRIC)

FEATURES & BENEFITS

- Measures X & Y forces
- Low crosstalk – <1.0%
- Linearity 0.1%
- Mating cable supplied. Right angle plug MS3108E14S-5S.
- 4 Keys supplied

SPECIFICATIONS

ACCURACY – (MAX ERROR)			
Bridge		Rx	Sy
Standard Capacities	lbf	6.6K	1325
	N	29.4K	58.9K
Side Force Capacity	lbf	500	
	N	2.22K	
Radial Force Capacity	lbf	1K, 1.5K, 2K	
	N	4.45K, 6.67K, 89K	
Rated Output – mV/V ± %		2 ±0.25	
Nonlinearity – %FS		± 0.1	
Hysteresis – %FS		± 0.1	
Nonrepeatability – %FS		±0.05	
TEMPERATURE			
Effect on Zero – %RO / deg	°F	±0.002	
Effect of Output – % / deg	°F	±0.002	
Compensated Range	°C	+21.11 to +76.67	
	°F	+70 to +170	
Operating Range	°C	-53.89 to +93.33	
	°F	-65 to +200	
ELECTRICAL			
Input Resistance - nominal – Ω		700	350 (350-450)
Output Resistance - nominal – Ω		700 ±7.0	350 ±3.5
Insulation Resistance (50 VDC) – MΩ		5000	
MECHANICAL			
Safe Overload – %CAP		150	
Weight	lbs	6.81	
	kg	3.1	
Material		Alloy Steel	

STANDARD CONFIGURATION



Model TXY (Shown)

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DIMENSIONS

See Drawing	U.S. in	Metric mm
1	Ø7.00	Ø177.8
2	Ø6.25	Ø158.8
3	Ø0.406 THRU 4 Holes EQ SP	Ø10.3124 THRU 4 Holes EQ SP
4	45°	
5	Ø2.50 TYP	63.5
6	2.0	51
7	1.1250 (±0.001)	28.575 (±0.03)
8	0.06	1.5
9	2.65	67.3
10	0.031	0.79
11	Ø(0.7500/0.7495) THRU	Ø(19.050/19.037) THRU
12	0.250 (+0.001/-0.000) TYP	6.35 (+0.03/-0.00) TYP
13	2.750 (±0.001)	69.85 (±0.03)
14	1.375 (±0.0005)	34.93 (±0.0127)
15	r 2.900	r 73.66
16	0.251	6.38
17	0.250 (+0.000/-0.002)	6.35 (+0.000/-0.05)
18	0.50	12.7
19	Sy – Side force	
20	Rx – Radial force	
21	BEARING OFFSET	

