

Model Number
059600-01104

FASTENER TORQUE-TENSION LOAD CELL

Revision: A
ECN #: 52760

	ENGLISH	SI	
Performance			
Measurement Range(Tension)	22.5k lbf	100 kN	[1][2]
Measurement Range(Torque)	110.6 lbf	150 Nm	[1][2]
Sensitivity(Tension)	2.0 mV/V	2.0 mV/V	[1][2]
Sensitivity(Torque)	1.0 mV/V	1.0 mV/V	[1][2]
Non-Linearity	± 0.25 % FS	± 0.25 % FS	[2]
Hysteresis	± 0.25 % FS	± 0.25 % FS	[2]
Non-Repeatability	≤ 0.2 % FS	≤ 0.2 % FS	[2]
Cross Talk	± 5.0 % FS	± 5.0 % FS	[2]
Environmental			
Overload Limit	150 % FS	150 % FS	[2]
Temperature Range(Operating)	0 to +200 °F	-18 to +93 °C	
Temperature Range(Compensated)	+70 to +170 °F	+21 to +77 °C	
Temperature Effect on Output(Maximum)	± 0.001 %Reading/°F	± 0.0018 %Reading/°C	[3]
Temperature Effect on Zero	± 0.001 %FS/°F	± 0.0018 %FS/°C	[3][2]
Balance(Maximum)			
Electrical			
Bridge Resistance(Tension)	350 Ohm	350 Ohm	[1]
Bridge Resistance(Torque)	350 Ohm	350 Ohm	[1]
Excitation Voltage(Recommended)	± 10 VDC or VAC rms	± 10 VDC or VAC rms	[4]
Insulation Resistance	> 5 GOhm	> 5 GOhm	
Zero Balance	≤ 2 % FS	≤ 2 % FS	[2]
Output Polarity(Compression)	Positive	Positive	
Output Polarity(Thread Torque CW)	Positive	Positive	
Bridge Current(at 10 VDC)	30 mA	30 mA	
Physical			
Size (Height x Width x Length)	9.56 in x 4.13 in x 9.00 in	243 mm x 105 mm x 229 mm	[5]
Weight	35 lb	16 kg	
Mounting	3/8" bolts (2)	10 mm bolts (2)	[5]
Housing Material	Stainless Steel	Stainless Steel	
Sensor Material	Aluminum	Aluminum	
Sensing Element	Strain Gage	Strain Gage	
Electrical Connector	PT02H-12-10P	PT02H-12-10P	
Stiffness	1512k lbf-ft/radian	2050k N-m/radian	

OPTIONAL VERSIONS

Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.

NOTES:

- [1] Nominal.
- [2] FS - Full Scale.
- [3] Over compensated operating temperature range.
- [4] Recommended 10 VAC RMS.
- [5] See Outline Drawing 61662 for Complete Dimensions.
- [6] See PCB Declaration of Conformance PS062 for details.

SUPPLIED ACCESSORIES:

- Model 7122R-02183A 218.4k Ohm Precision Calibration Resistor (1)
- Model 7122R-04352A PRECISION CAL RESISTOR 43.575 kOhm (1)
- Model 72736-01 Clamp Assembly (1)
- Model 90150-030278 Mounting Plate (Base) (1)



All specifications are at room temperature unless otherwise specified.
In the interest of constant product improvement, we reserve the right to change specifications without notice.

Entered: ND	Engineer: PE	Sales: DM	Approved: JM	Spec Number:
Date: 05/12/2022	Date: 05/12/2022	Date: 05/12/2022	Date: 05/12/2022	61708



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