

Model Number 059500-01044		FASTENER TORQUE-TENSION LOAD CELL			Revision: A ECN #: 52760	
Performance		ENGLISH	SI		OPTIONAL VERSIONS	
Measurement Range(Tension)		9k lbf	40 kN	[1][2]	Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.	
Measurement Range(Torque)		44.3 lbf	60 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)	9.19 in x 4.13 in x 9.00 in		233 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	847k lbf-ft/radian		1148k N-m/radian			

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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.