

Model Number 039050-51201		ROTARY TORQUE, W/AUTO ID			Revision: NR ECN #: 38721		
Performance		ENGLISH	SI		OPTIONAL VERSIONS		
Measurement Range(Full Scale Capacity)		148 lbf-ft	200 Nm		Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.		
Sensitivity(output at rated capacity)		2.0 mV/V	2.0 mV/V	[5]			
Non-Linearity		≤ 0.25 % FS	≤ 0.25 % FS	[2]			
Hysteresis		≤ 0.25 % FS	≤ 0.25 % FS	[2]			
Non-Repeatability		≤ 0.05 % FS	≤ 0.05 % FS	[2]			
Interchangeability		≤ 0.30 % FS	≤ 0.30 % FS	[6][2]			
Environmental							
Overload Limit		221 lbf-ft	300 Nm				
Temperature Range(Operating)		0 to +200 °F	-18 to +93 °C				
Temperature Range(Compensated)		+70 to +150 °F	+21 to +66 °C				
Temperature Effect on Output(Maximum)		± 0.002 %Reading/°F	± 0.0018 %Reading/°C	[4]			
Temperature Effect on Zero Balance(Maximum)		± 0.002 %FS/°F	± 0.0018 %FS/°C	[4]			
Electrical							
Bridge Resistance		350 Ohm	350 Ohm				
Excitation Voltage		10 VDC	10 VDC	[1]			
Insulation Resistance		≥ 5 GOhm	≥ 5 GOhm				
Zero Balance		≤ 2 % FS	≤ 2 % FS	[2]			
Shunt Calibration		≤ 0.25 % FS	≤ 0.25 % FS	[3][2]			
Auto ID		TTL Proprietary	TTL Proprietary				
Physical							
Size (Shaft Length x Housing Length x Housing Height)		3.23 in x 2.30 in x 2.00 in	82.0 mm x 58.4 mm x 50.8 mm	[7]			
Weight		.85 lb	386 gm				
Mounting		1/2 inch Sq Drive	12.7 mm Sq Drive	[8]			
Sensing Element		Strain Gage	Strain Gage				
Housing Material		Aluminum	Aluminum				
Shaft Material		Steel	Steel				
Electrical Connector		PT02H-12-10P	PT02H-12-10P				
Maximum Speed		2500 RPM	2500 RPM				
							
[9]							
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.							
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