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| Model Number 039001-01103 | ROTARY TORQUE, W/AUTO ID | Revision: NR ECN #: 38721 |
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| | <u>ENGLISH</u> | <u>SI</u> | |
|---|-----------------------------|-------------------------------|--------|
| Performance | | | |
| Measurement Range(Full Scale Capacity) | 7376 lbf-ft | 10 kNm | |
| 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 | 8851 lbf-ft | 12 kNm | |
| 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) | 5.50 in x 2.63 in x 4.88 in | 139.7 mm x 66.8 mm x 123.9 mm | [7] |
| Weight | 7.5 lb | 3402 gm | |
| Mounting | 1.50 inch Sq Drive | 38.1 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 | 750 RPM | 750 RPM | |

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] Calibrated at 10 VDC, usable 5 to 20 VDC or VAC RMS.
 [2] FS - Full Scale.
 [3] Matched with 43.575 kOhm Precision Resistor.
 [4] Over compensated temperature range.
 [5] Matched to ±0.25% F.S.
 [6] Matched for mV/V and shunt calibration.
 [7] See Outline Drawing LT36492 for Complete Dimensions
 [8] Per ANSI B107.4 Specifications
 [9] See PCB Declaration of Conformance PS119 for details.


SUPPLIED ACCESSORIES:
 Model 7122R-04352A PRECISION CAL RESISTOR 43.575 kOhm

OPTIONAL ACCESSORIES:
 Model 080920-01000 MODEL 920 PORTABLE DIGITAL INSTRUMENT
 Model 080962-01000 MODEL 962 DATA RECORDER
 Model 097000-34445 INTERCONNECT CABLE
 Model 4242R-000630 MATING CONNECTOR PT06A-12-10S(SR)

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|-----------------|-----------------|-----------------|-----------------|--------------|
| Entered: DMW | Engineer: JM | Sales: DM | Approved: PE | Spec Number: |
| Date: 3/14/2012 | Date: 3/14/2012 | Date: 3/14/2012 | Date: 3/14/2012 | 51935 |



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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