| Model | Nu | mb | er | |
|--------|-----|----|----|---|
| 039225 | -51 | 01 | 5/ | В |

ROTARY TORQUE, W/ENCODER AND AUTO ID

Revision: NR ECN #: 47364

| Performance | <u>ENGLISH</u> | <u>SI</u> | |
|---|--------------------------|--------------------------|--------|
| Measurement Range(Full Scale Capacity) | 132 lbf-in | 15 Nm | |
| Sensitivity(output at rated capacity) | 2.0 mV/V | 2.0 mV/V | [7] |
| 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] |
| Interchangeabilty | ≤ 0.30 % FS | ≤ 0.30 % FS | [8][2] |
| Environmental | | | |
| Overload Limit | 203 lbf-in | 23 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 | [6] |
| Temperature Effect on Zero Balance(Maximum) Electrical | ± 0.002 %FS/°F | ± 0.0018 %FS/°C | [6] |
| 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] |
| Counts Per Revolution | 1472 | 1472 | [3] |
| Resolution w/ Quadrature | 1/4 ° | 1/4 ° | [3] |
| Output Voltage | High 5V to Low 0.5V | High 5V to Low 0.5V | [3] |
| Power Required(maximum) | 5 VDC @ 120mA | 5 VDC @ 120mA | [3] |
| Magnetic Encoder(Poles) | 360 | 360 | [3] |
| Magnetic Encoder(Ouput) | See Note | See Note | [4][3] |
| Shunt Calibration | ≤ 0.25 % FS | ≤ 0.25 % FS | [5][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 | 82.0 mm x 58.4 mm x 50.8 | [9] |
| | in | mm | |
| Weight | .75 lb | 340 gm | |
| Mounting | 1/4 inch Sq Drive | 6.35 mm Sq Drive | [10] |
| Sensing Element | Strain Gage | Strain Gage | |
| Housing Material | Aluminum | Aluminum | |
| Shaft Material | Steel | Steel | |
| Electrical Connector | PT02H-12-10P | PT02H-12-10P | |
| Liectrical Connector | | | |

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.

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] Magnetic Encoder Specifications.
- [4] A-B Track 90° Phase Difference, Flat Over Operating Speed
- [5] Matched with 43.575 kOhm Precision Resistor.
- Over compensated temperature range.
- Matched to ±0.25% F.S.
- Matched for mV/V and shunt calibration.
- [9] See Outline Drawing 45187 for Complete Dimensions
- [10] Per ANSI B107.4 Specifications [11] 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 Peak Meter for torque, torque-angle or load measurement, Click-Wrench calc feature, w/battery charger, instruction manual & shoulder

Model 080962-01000 MODEL 962 DATA RECORDER Model 097000-34445 INTERCONNECT CABLE

Model 4242R-000630 MATING CONNECTOR PT06A-12-10S(SR)

| Entered: LK | Engineer: PE | Sales: DM | Approved: JSD | Spec Number: |
|------------------|------------------|------------------|------------------|--------------|
| Date: 10/31/2017 | Date: 10/31/2017 | Date: 10/31/2017 | Date: 10/31/2017 | 68202 |



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