| Model Number                                |                       | REACTION TOP                  | RQU    | E SENSO   | R      |
|---|-----------------------|-------------------------------|--------|---|--------|
| 2508-02A                                    | •                     |                               |        |   |        |
| Performance                                 | <u>ENGLISH</u>        | <u>SI</u>                     |        |   |        |
| Measurement Range(Full Scale Capacity)      | 100 lbf-in            | 11.3 Nm                       | [1]    | Optional versions                               | s have |
| Sensitivity(output at rated capacity)       | 2 mV/V                | 2 mV/V                        | [1][5] | 6   | except |
| Non-Linearity                               | ≤ 0.1 % FS            | ≤ 0.1 % FS                    | [5]    |   |        |
| Hysteresis                                  | ≤ 0.1 % FS            | ≤ 0.1 % FS                    | [5]    |   |        |
| Non-Repeatability                           | ≤ 0.02 % FS           | ≤ 0.02 % FS                   | [5]    |   |        |
| Resonant Frequency                          | 620 Hz                | 380 Hz                        |        |   |        |
| Maximum Torque                              | 150 lbf-in            | 16.9 Nm                       |        |   |        |
| Environmental                               |                       |                               |        |   |        |
| Overload Limit(Axial Thrust)                | 280 lbf               | 1245 N                        | [3]    | NOTES:  |        |
| Overload Limit(Overhung Moment)             | 100 lbf-in            | 11.3 Nm                       | [3]    | [1] Nominal.                                    | 10 \/  |
| Overload Limit(Shear)                       | 20 lbf                | 89 N                          | [3]    | [2] Calibrated at 10 VD [3] Singularly applied, |        |
| Temperature Range(Operating)                | -65 to +200 °F        | -54 to +93 °C                 |        | [4] Over comper                                 |        |
| Temperature Range(Compensated)              | +70 to +170 °F        | +21 to +77 °C                 |        | [5] FS - Full Sca                               |        |
| Temperature Effect on Output(Maximum)       | ± 0.002 %Reading/°F   | ± 0.0036 %Reading/°C          | [4]    | [6] See Drawing 32786                           |        |
| Temperature Effect on Zero Balance(Maximum) | ± 0.002 %FS/°F        | ± 0.0036 %FS/°C               | [4][5] |   |        |
| Electrical                                  |                       |                               |        | OUDDI IED A                                     | 2050   |
| Bridge Resistance                           | 700 Ohm               | 700 Ohm                       | [1]    | Model 181-012A PT06                             |        |
| Excitation Voltage(Recommended)             | 10 VDC                | 10 VDC                        | [2]    |   |        |
| Insulation Resistance                       | 5 GOhm                | 5 GOhm                        |        |   |        |
| Zero Balance                                | ≤ 1 %RO               | ≤ 1 %RO                       |        |   |        |
| Output Polarity                             | CW+                   | cw+                           |        | Entered: LK                                     | Eng    |
| Physical                                    |                       |                               |        | Date: 2/22/2018                                 | Date   |
| Size (Diameter x Length)                    | 2.00 in x 3.00 in     | 50.8 mm x 76.2 mm             | [6]    | Date. 2/22/2010                                 | Date   |
| Weight                                      | 2 lb                  | 908 g                         |        |   |        |
| Mounting                                    | Flange (#10-24 Bolts) | Flange (No Metric Equivalent) |        |   |        |
| Torsional Stiffness                         | 6700 lbf-in/radian    | 757 N-m/radian                |        |   |        |
| Sensing Element                             | Strain Gage           | Strain Gage                   |        |   |        |
| Housing Material(Sensor)                    | Anodized Aluminum     | Anodized Aluminum             |        | @DCD!   | 04     |
| Electrical Connector                        | PT02E-10-6P           | PT02E-10-6P                   |        | @PCB L  | UAI    |

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**

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

- ated at 10 VDC, usable 5 to 20 VDC or VAC RMS.
- arly applied, i.e. no other extraneous loads.
- ompensated operating temperature range.
- rawing 32786 for Complete Dimensions

## D ACCESSORIES:

-012A PT06A-10-6S(SR) (1)

| Entered: LK     | Engineer: PE    | Sales: KH       | Approved: JSD   | Spec Number: |
|-----------------|-----------------|-----------------|-----------------|--------------|
| Date: 2/22/2018 | Date: 2/22/2018 | Date: 2/22/2018 | Date: 2/22/2018 | 18532        |



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Revision: F

ECN #: 47636