Model Number			
2508-04A		REACTION TOR	
Performance	ENGLISH	SI	
Measurement Range(Full Scale Capacity)	500 lbf-in	56.5 Nm	
Sensitivity(output at rated capacity)	2 mV/V	2 mV/V	
Non-Linearity	≤ 0.10 % FS	≤ 0.10 % FS	
Hysteresis	≤ 0.10 % FS	≤ 0.10 % FS	
Non-Repeatability	≤ 0.02 % FS	≤ 0.02 % FS	
Resonant Frequency	2.05 kHz	2.05 kHz	
Maximum Torque	750 lbf-in	84.7 Nm	
Environmental			
Overload Limit(Axial Thrust)	500 lbf	2224 N	
Overload Limit(Overhung Moment)	250 lbf-in	28.2 Nm	
Overload Limit(Shear)	500 lbf	2224 N	
Temperature Range(Operating)	-65 to +170 °F	-54 to 77 °C	
Temperature Range(Compensated)	+70 to +170 °F	+21 to +77 °C	
Temperature Effect on Output(Maximum)	± 0.002 %Reading/°F	± 0.0036 %Reading/°C	
Temperature Effect on Zero Balance(Maximum)	± 0.002 %FS/°F	± 0.0036 %FS/°C	
Electrical			
Bridge Resistance	350 Ohm	350 Ohm	
Excitation Voltage(Recommended)	10 VDC	10 VDC	
Insulation Resistance	5 GOhm	5 GOhm	

≤1 %RO

cw+

2.00 in x 3.00 in

2 lb

Flange (#10-24 Bolts)

73 klbf-in/radian

Strain Gage

Anodized Aluminum

PT02E-10-6P

All specifications are at room temperature unless otherwise specified.

Zero Balance **Output Polarity**

Size (Diameter x Length)

Housing Material(Sensor)

Torsional Stiffness

Electrical Connector

Sensing Element

Physical

Weight

Mounting

In the interest of constant product improvement, we reserve the right to change specifications without notice.

RQUE SENSOR

[5][4] [4] [4] [4]

[2]

[2]

[2]

[3] [4][3]

[1]

[6]

≤ 1 %RO

cw+

50.8 mm x 76.2 mm

908 g

Flange (No Metric Equivalent)

8.248 kN-m/radian

Strain Gage

Anodized Aluminum

PT02E-10-6P

Revision: F ECN #: 47636

OPTIONAL VERSIONS			
Optional versions have identical specifications and accessories as listed for the standard mode			
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] Singularly applied, i.e. no other extraneous loads.
 [3] Over compensated operating temperature range.
- [4] FS Full Scale.
- [5] Nominal.
- [6] See Drawing 32786 for Complete Dimensions

SUPPLIED ACCESSORIES:

Model 181-012A PT06A-10-6S(SR) (1)

Entered: LK	Engineer: PE	Sales: KH	Approved: JSD	Spec Number:
Date: 2/23/2018	Date: 2/23/2018	Date: 2/23/2018	Date: 2/23/2018	18534



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