Model QFFH-9

Flange Reaction Torque Transducer

DESCRIPTION

Model QFFH-9 flange reaction torque transducer is designed for installation between test pieces such as motors, switches, axles or shafts and their mounting plate. These models operate and are calibrated in both directions. Stainless steel construction enhances durability in harsh, industrial environments. These mod-

els have no moving parts and utilize four bonded strain gages on a special machined portion of the transducer to achieve a maximum non-linearity of 0.1% over a wide dynamic range. Typical applications include tire braking, motor dynamometers, friction-skid testing, and twist measurement.

FEATURES

- 3000 in-lb to 24000 in-lb capacities
- 0.1 % non-linearity and hysteresis
- Wide dynamic range
- High frequency response
- Stainless steel construction

Model QFFH-9

PERFORMANCE SPECIFICATIONS

Characteristic	Measure	
Range	3000; 6000; 12000; 24000 inlb	
System accuracy	±0.1 % full scale	
Linearity	±0.1 % full scale	
Hysteresis	±0.1 % full scale	
Non-repeatability	±0.03 % full scale	
Output	2 mV/V nominal	
Resolution	Infinite	

ENVIRONMENTAL SPECIFICATIONS

Characteristic	Measure		
Temperature, operating	-54 °C to 107 °C [-65 °F to 225 °F]		
Temperature, compensated	16 °C to 71 °C [60 °F to 160 °F]		
Temperature effect, zero	0.005 % full scale/ °F		
Temperature effect, span	0.005 % reading/ °F		

ELECTRICAL SPECIFICATIONS

Characteristic	Measure
Strain gage type	Bonded foil
Excitation	10 Vdc
Bridge resistance	350 ohm
Electrical termination	Bendix PTIH-10-6P or equivalent
Mating connector	PT06A-10-6S or equivalent (not included)

RANGE CODES

Range Code	Available ranges
TR	3000 in-lb
тт	6000 in-lb
TV	12000 in-lb
TW	24000 in-lb

OPTION CODES

Range Code	Many range/option combinations are available in our quick-ship and fast-track manufacture programs. Please see http://sensing.honeywell.com/TMsensor-ship for updated listings.				
Torque range	3000, 6000, 1200, 24000 in-lb				
Temperature compensation	1a. 16 °C to 71 °C [60 °F to 160 °F] 1b. -1 °C to 54 °C [30 °F to 130 °F] 1c. -18 °C to 85 °C [0 °F to 185 °F] 1d. -29 °C to 54 °C [-20 °F to 130 °F] 1e. -29 °C to 93 °C [-20 °F to 200 °F] 1f. 21 °C to 121 °C [70 °F to 250 °F]				
Internal amplifiers	2u. Unamplified, mV/V output				
Electrical termination	 6a. Bendix PTIH-10-6P - 6-pin (max. 121 °C [250 °F]) 6b. MS connector MS3102E-14S-6P (mates with MS3106E-14S-6S, max 160 °F) 6e. Integral cable: Teflon 6f. Integral cable: PVC 6g. Integral cable: Neoprene 6h. Integral cable: Silicone 				
Interfaces	53e. Signature calibration 53t. T.E.D.S. IEEE 1451.4 module				

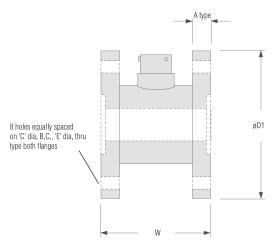
Flange Type Reaction Torque Transducer

MECHANICAL SPECIFICATIONS

Characteristic	Measure		
Static overload capacity	50 % over capacity		
Case material	Stainless steel		

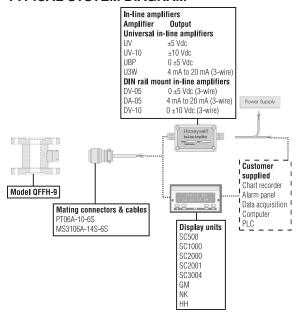
MOUNTING DIMENSIONS

Range (in-lb)	ØD1 mm [in]	W mm [in]	A mm [in]	C mm [in] dia. B.C.	E mm [in] dia. Thru
3000,	101,6 mm	76,2 mm	12,7 mm	82,55 mm	8,38 mm
6000	[4.00 in]	[3.00 in]	[0.50 in]	[3.25 in]	[0.33 in]
12000,	127 mm	88,9 mm	19,05 mm	107,95 mm	9,9 mm
24000	[5.00 in]	[3.50 in]	[0.75 in]	[4.25 in]	[0.39 in]



For reference only

TYPICAL SYSTEM DIAGRAM



SUNSTAR传感与控制 http://www.sensor-ic.com/ TEL:0755-83376549 FAX:0755-83376182 E-MAIL:szss20@163.com Model QFFH-9 Flange Type Reaction Torque Transducer

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• DO NOT USE these products as safety or emergency stop devices or in any other application where failure of the product could result in personal injury.

Failure to comply with these instructions could result in death or serious injury.

WARNING MISUSE OF DOCUMENTATION

- The information presented in this catalogue is for reference only. DO NOT USE this document as product installation information.
- Complete installation, operation and maintenance information is provided in the instructions supplied with each product.

Failure to comply with these instructions could result in death or serious injury.

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