

# Reaction Torque Sensors

## 01165-01171

### FLANGE TORQUE SENSOR

Because non-accelerating systems must have equal reactions to actions produced, it is often possible to measure output torque by measuring reaction forces acting on the device's housing. This sensor is ideal for measuring reaction or restraining torque in motor, pump, and fixture mounts. These hollow sensors are well suited for limited rotation applications.

### SPECIFICATIONS

Capacity.....50 to 200,000 in.lb. (See chart)  
 Overload capacity.....150% of F.S.  
 Output at F.S..... 2.0 mV/V nominal  
 Non-linearity..... 0.10% of F.S.  
 Hysteresis.....0.10% of F.S.  
 Zero balance.....1.00% of F.S.  
 Compensated temperature.....70 to 170°F  
 Useable temperature.....-65 to +250°F  
 Temperature effect on zero.....0.002% of F.S./°F  
 Temperature effect on span.....0.002% of Rdg./°F  
 Bridge resistance.....700/350 Ohms  
 Excitation voltage, maximum.....20 Vdc



### DIMENSIONS

MODEL	CAPACITY		DIMENSIONS (Inches)										QTY	MATL
	NM	IN LBS	A	C	D	F	G	H	N	J	L	K		
01165-051	6	50										4	ALUM	
01165-012	11	100										6 FT OF CABLE		
01166-022	23	200	.62	2.25	3.00	2.50	1.25	.13	.38	.27				
01166-052	57	500												
01166-013	113	1000												
01167-051	6	50										8		
01167-012	11	100												
01167-022	23	200			4.50	3.62		.25	.56		1.98			
01167-052	57	500		3.00			1.75			.34				
01167-013	113	1000												
01168-023	226	2000	1.50					.13	.50		6 FT OF CABLE			
01168-352	395	3500										STEEL		
01169-053	565	5000		3.50	5.00	4.25	2.00	.25	.75	.39	1.98			
01169-014	1130	10000												
01170-153	1695	15000												
01170-024	2260	20000												
01170-034	3390	30000		7.38	8.00	6.50	3.50			.64	2.78			
01170-044	4520	40000						.31	1.50					
01170-054	5650	50000	2.00											
01171-015	11300	100000												
01171-184	19775	175000		8.50	9.75	8.00	4.00			.77	3.36			
01171-025	22600	200000	3.00											

