

Steering Wheel Force and Angle Sensor

MT-SWS-50 series



FEATURES

1	THIN AND LIGHTWEIGHT
2	10000 POINT OPTICAL CODER FOR ANGLE
3	2 X F.S. TORQUE OVERLOAD PROTECTION
4	HIGHEST ACCURACY AVAILABLE ON THE MARKET
5	EASY INSTALLTION/REMOVAL TO /FROM THE STEERING WHEEL OF THE VEHICLE

MEADOW TECHNOLOGIES INC.

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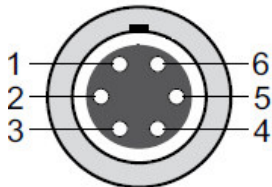
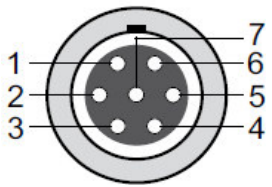
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TECHNICAL SPECIFICATIONS

MODEL SENSOR	MT-SWS-50
DESCRIPTION	Dynamic torque meter with angle measurement
RANGE	Torque :0- ±10-100Nm(as specified) Angle: Random angle Angle Speed: 0 to 1620 °/s
SAFE OVERLOAD RATING	200%
POWER SUPPLY	±5V, ±10V DC for torques, 5V DC for angles
SIGNAL OUTPUT	Torque : mV/V Angle: Random Angle, Rectangular wave A,B phase 10000 PulseS/360°
LINEARITY + HYSTERESIS	< ±0.1% full scale
ANGLE Resolution :	0.03°
INPUT RESISTANCE	760Ω
OUTPUT RESISTANCE	700Ω
PROTECTION	IP50
OPERATING TEMPERATURE RANGE	-40°C to +80°C
SENSITIVITY SHIFT WITHIN (CTR)	<0.2% of reading / 60°C
ELECTRICAL OUTPUT	2 LEMO Receptacles
WEIGHT	Approx. 3kg
STANDARD ACCESSORIES	2 Lemo connectors(6 pins and 7 pins) Adapter and Nuts
OPTION ACCESSORY	Indirect Adapter for double wheel system

PIN ASSIGNMENT	
FORCE	ANGLE
 1: EXCITATION + 2: EXCITATION - 3: SIGNAL + 4: SIGNAL -	 1: A 2: B 3: Z 4: RES 5: +5V 6: RES 7: GND