

PCM 扭矩传感器 TQ-TRX



产品型号:

TQ-TRX

RX 的静态扭矩传感器

硫氧还蛋白: 内存模型
的关键特征:

-主要为 50nm。

线性 ± 0.1 %渗透。

符合 IP67 密封。

应用:

试验机

过程控制

数据表: (扭矩传感器的静态内存

在 TQ—硫氧还蛋白提供了法兰的设计, 测量装置的静态扭转。硫氧还蛋白的产生是从不锈钢全焊接结构的建筑与蛛网膜下腔出血。负载细胞, 这已被应用在设计的试验台的静态和动态测量是必需的。

值得注意的是: 转矩换能器 *calibrated* 只提供单向的标准, 无论是顺时针或逆时针。如果在两个方向的校



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准是必需的，请指定这个在线 *enquiring*。

更多详细的产品规格和配件提供完整的清单，请下载产品数据表。

TYPICAL SPECIFICATION

PARAMETER	VALUE			UNITS
	Accuracy 0.05%	Accuracy 0.1%		
Capacities Range	50, 100, 500, 1000, 2000, 3000, 5000			Nm
Rated Output	1			mV/V
Repeatability 0°-120°-240°	±0.050 ⁽¹⁾	±0.100 ⁽¹⁾		±% of Rated Output
Hysteresis	±0.063 ⁽¹⁾	±0.125 ⁽¹⁾		±% of Rated Output
Interpolation	±0.025 ⁽¹⁾	±0.050 ⁽¹⁾		±% of Rated Output
Zero Return after 30 minutes	±0.012 ⁽¹⁾	±0.025 ⁽¹⁾		±% of Full Scale
Zero Balance	±0.5			±% of Full Scale
Temperature Range: Operating	-10 to +70			°C
Temperature Range: Compensated	-20 to +80			
Temperature Effect: On Output	0.010			±% of Rated Output/°C
Temperature Effect: On Zero	0.020			±% of Rated Load/°C
Safe Overload	150			% of Rated Capacity
Ultimate Overload	>300			% of Rated Capacity
Excitation: Recommended	10			Volts AC or DC
Excitation: Maximum	18			
Input Impedance	700 ± 2			Ω
Output Impedance	705 ± 2			Ω
Insulation Resistance	>5			GΩ at 50VDC
Weight (Approx.)	50-100Nm ~2.5	500-2000Nm ~3.5	3000-5000Nm ~4.5	KG
Construction	Stainless Steel			-
Environmental Protection	IP67			-
Cable	5m (6 core screened)			-

⁽¹⁾ Percentual errors referred to reading min. 1/10 of the nominal load.

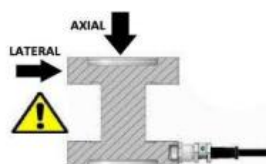
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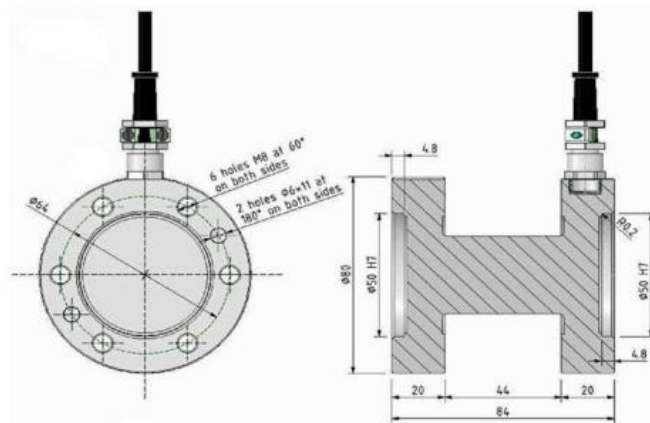
FIXING SCREWS	50-100Nm	500-2000Nm	3000-5000Nm
Diameter	M8	M12	M16
Resistance Class	12.9	12.9	12.9
Tightening Torque	40Nm	140Nm	368Nm

NOMINAL TORQUE	50Nm	100Nm	500Nm	1000Nm	2000Nm	3000Nm	5000Nm
Max. Axial Permissible Load	19kN	19kN	56kN	83kN	124kN	124kN	124kN
Max Lateral Permissible Load	1.8kN	1.8kN	8kN	15kN	20kN	20kN	20kN

NOTE: For correct measurement, both axial and transverse forces and bending moment should be absent. In case of their presence, they must not be greater than the values listed above.



OUTLINE DIMENSIONS in millimeters

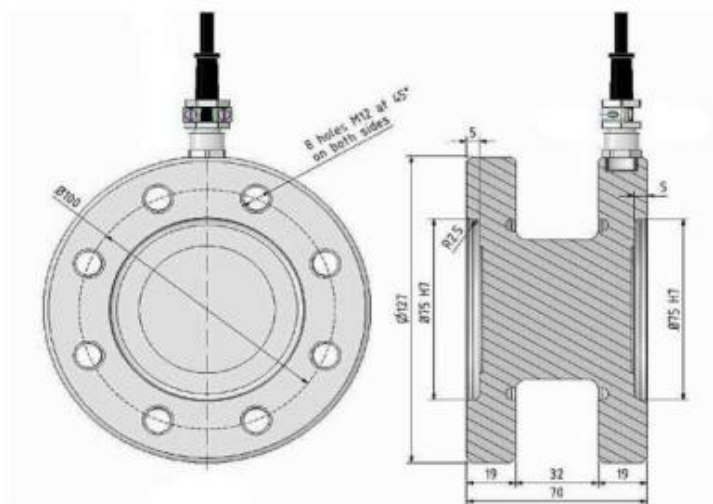


TORQUE	CODE (0.05% Class)	CODE (0.1% Class)
50Nm	MTRX50NM005	MTRX50NM01
100Nm	MTRX100NM005	MTRX100NM01

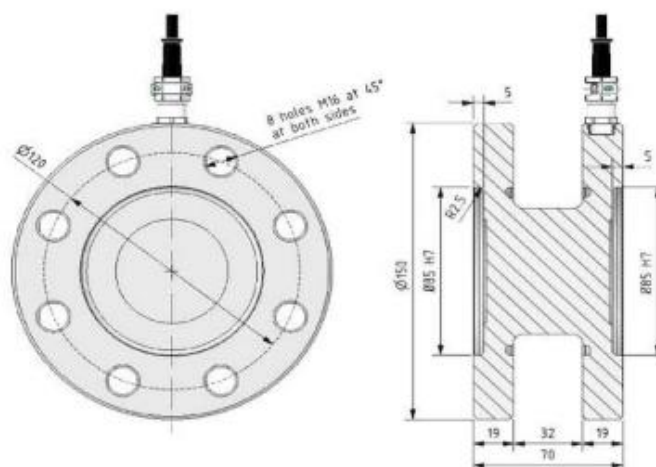
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TORQUE	CODE (0.05% Class)	CODE (0.1% Class)
500Nm	MTRX500NM005	MTRX500NM01
1000Nm	MTRX1KNM005	MTRX1KNM01
2000Nm	MTRX2KNM005	MTRX2KNM01



TORQUE	CODE (0.05% Class)	CODE (0.1% Class)
3000Nm	MTRX3KNM005	MTRX3KNM01
5000Nm	MTRX5KNM005	MTRX5KNM01



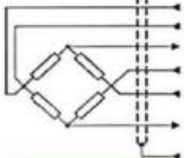
STP
诗拓浦

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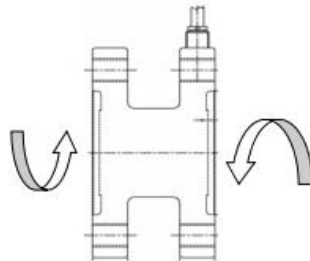
WIRING DETAIL

PVC 80°C shielded cable, $\varnothing$ 5.2mm with 6 tinned $\varnothing$ 0.25mm² conductors.

TRANSDUCER	OUTPUT	CABLE	PLUG
	EXCITATION+	Red	C
	SENSE +	Orange	F
	OUTPUT+	White	B
	EXCITATION -	Black	A
	SENSE -	Blue	G
	OUTPUT-	Yellow	D
	-----	Shield*	E

*Connected to the body of the torque transducer.

LOADING MODE



NOTE: Torque transducers are supplied calibrated in one direction only as standard, either clockwise or counter-clockwise. If calibration in both directions is required, please specify this on enquiring. Thank you.