

TMM55E-POH010

TMM55

INCLINATION SENSORS





Illustration may differ

Ordering information

Туре	Part no.
TMM55E-POH010	1073783

Other models and accessories → www.sick.com/TMM55



Detailed technical data

Performance

Number of axis	2
Measuring range	± 10°
Resolution	0.01°
Static measurement accuracy	± 0.15°
Compensated cross-sensitivity (2-dimensional)	Typ. ± 0.25°, max. ± 0.5°
Temperature coefficient (zero point)	Max. ± 0.009°/K
Limit frequency	18 Hz
Sampling rate	1.95 kHz

Interfaces

Communication interface	Analog / Voltage
Voltage output	0 V 10 V
Load resistance	≤ 930 Ω
Initialization time	75 ms

Electrical data

Connection type	Cable, 5-wire, with male connector, M12, 5-pin, 0.2 m	
Supply voltage	11 V DC 30 V DC	
Current consumption	15 25 mA	
Reverse polarity protection	✓	
Short-circuit protection of the outputs	✓	
MTTFd: mean time to dangerous failure	290 years (EN ISO 13849-1) 1)	

¹⁾ This product is a standard product and does not constitute a safety component as defined in the Machinery Directive. Calculation based on nominal load of components, average ambient temperature 40 °C, frequency of use 8760 h/a. All electronic failures are considered hazardous. For more information, see document no. 8015532.

Mechanical data

Dimensions	65 mm x 35 mm x 20 mm
Weight	55 g (with cable)
Housing material	Plastic (ABS)
Material, cable	PUR

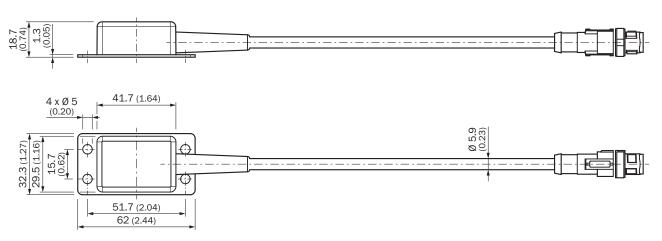
Ambient data

EMC	EN 61326-1, EN ISO 14982, EN ISO 13309
Enclosure rating	IP65 IP67
Operating temperature range	-40 °C +80 °C
Storage temperature range	-40 °C +85 °C
Resistance to shocks	100 g, 6 ms (according to EN 60068-2-27)
Resistance to vibration	10 g, 10 Hz 2,000 Hz (EN 60068-2-6)

Classifications

ECLASS 5.0	27270790
ECLASS 5.1.4	27270790
ECLASS 6.0	27270790
ECLASS 6.2	27270790
ECLASS 7.0	27270790
ECLASS 8.0	27270790
ECLASS 8.1	27270790
ECLASS 9.0	27270790
ECLASS 10.0	27271101
ECLASS 11.0	27271101
ECLASS 12.0	27271101
ETIM 5.0	EC001852
ETIM 6.0	EC001852
ETIM 7.0	EC001852
ETIM 8.0	EC001852
UNSPSC 16.0901	41111613

Dimensional drawing (Dimensions in mm (inch))

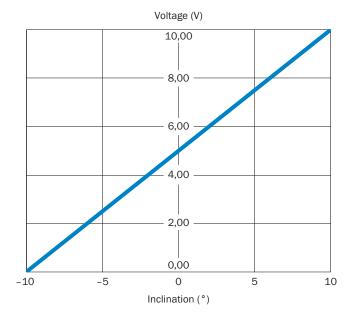


PIN assignment



PIN Male connector M12, 5-pin	Wire colors (cable connection) Cable connection	Signal	
1	Brown	VDC	Supply voltage
2	White	Y-OUT	Sensorsignal y-axis
3	Blue	GND	OV (GND)
4	Black	X-OUT	Sensorsignal x-axis
5	Green/yellow	Signal- GND	Signal GND (internally connected to GND)

Diagrams



Recommended accessories

Other models and accessories → www.sick.com/TMM55

	Brief description	Туре	Part no.
Others			
	Connection type head A: Female connector, M12, 5-pin, straight, A-coded Description: Unshielded, Head A: female connector, M12, 5-pin, straight, unshielded, for cable diameter 4 mm 6 mm Head B: - Connection systems: Screw-type terminals Permitted cross-section: ≤ 0.75 mm²	DOS-1205-G	6009719
	 Connection type head A: Male connector, M12, 5-pin, straight, A-coded Description: Unshielded, Head A: male connector, M12, 5-pin, straight, unshielded, for cable diameter 4 mm 6 mm Head B: - Connection systems: Screw-type terminals Permitted cross-section: ≤ 0.75 mm² Note: For field bus technology 	STE-1205-G	6022083
	 Connection type head A: Female connector, M12, 5-pin, angled, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable, Power Cable: 1.5 m, 5-wire, PUR, halogen-free Description: Sensor/actuator cable, Power, shielded, Female connector, M12 Speedcon, A-coded, angled, to open end 	DOL-1205- W1M5ACSCO	6049455
	 Connection type head A: Female connector, M12, 5-pin, straight, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 1.5 m, 5-wire, PUR, halogen-free Description: Sensor/actuator cable, shielded Application: Zones with oils and lubricants, Drag chain operation, Robot 	YF2A25- 015UB6XLEAX	2095833
	 Connection type head A: Female connector, M12, 5-pin, straight, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 3 m, 5-wire, PUR, halogen-free Description: Sensor/actuator cable, shielded Application: Zones with oils and lubricants, Drag chain operation, Robot 	YF2A25- 030UB6XLEAX	2095834
	 Connection type head A: Female connector, M12, 5-pin, angled, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 3 m, 5-wire, PUR, halogen-free Description: Sensor/actuator cable, shielded Application: Zones with oils and lubricants, Drag chain operation, Robot 	YG2A25- 030UB6XLEAX	2095791
	 Connection type head A: Female connector, M12, 5-pin, angled, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 5 m, 5-wire, PUR, halogen-free Description: Sensor/actuator cable, shielded Application: Zones with oils and lubricants, Drag chain operation, Robot 	YG2A25- 050UB6XLEAX	2095792
3	 Connection type head A: Female connector, M12, 5-pin, angled, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 10 m, 5-wire, PUR, halogen-free Description: Sensor/actuator cable, shielded Application: Zones with oils and lubricants, Drag chain operation, Robot 	YG2A25- 100UB6XLEAX	2095793

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