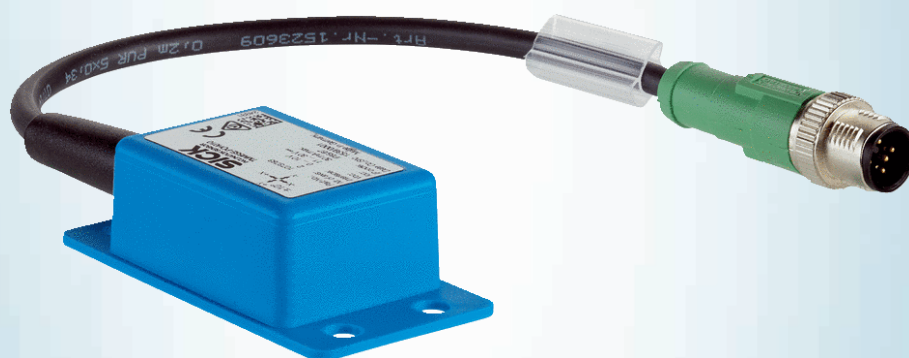




TMM55E-PMH060

TMM55

INCLINATION SENSORS

SICK
Sensor Intelligence.



Illustration may differ

Ordering information

Type	part no.
TMM55E-PMH060	1073782

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



Detailed technical data

Safety-related parameters

MTTF_D (mean time to dangerous failure)	378 years (EN ISO 13849-1) ¹⁾
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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.

Performance

Number of axis	2
Measuring range	± 60°
Resolution	0.06°
Static measurement accuracy	± 0.5°
Compensated cross-sensitivity (2-dimensional)	Typ. ± 1.2°, max. ± 2.4°
Temperature coefficient (zero point)	Max. ± 0.009°/K
Limit frequency	18 Hz
Sampling rate	1.95 kHz

Interfaces

Communication interface	Analog / Current
Current output	4 mA ... 20 mA
Load resistance	≤ 930 Ω
Initialization time	75 ms

Electronics

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 ... 45 mA
Reverse polarity protection	✓
Short-circuit protection of the outputs	✓

Mechanics

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 (IEC 60529) IP67 (IEC 60529)
Operating temperature range	-40 °C ... +80 °C
Storage temperature range	-40 °C ... +85 °C
Resistance to shocks	100 g, 6 ms (EN 60068-2-27)
Resistance to vibration	10 g, 10 Hz ... 2,000 Hz (EN 60068-2-6)

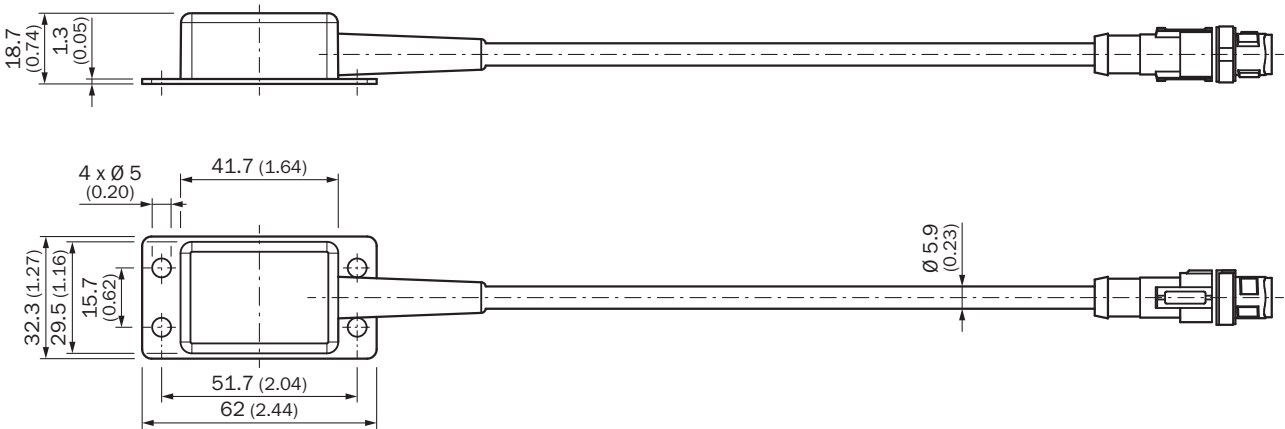
Classifications

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

Certificates

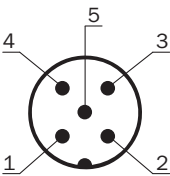
EU declaration of conformity	✓
UK declaration of conformity	✓
ACMA declaration of conformity	✓
China RoHS	✓
Information according to Art. 3 of Data Act (Regulation EU 2023/2854)	✓

Dimensional drawing



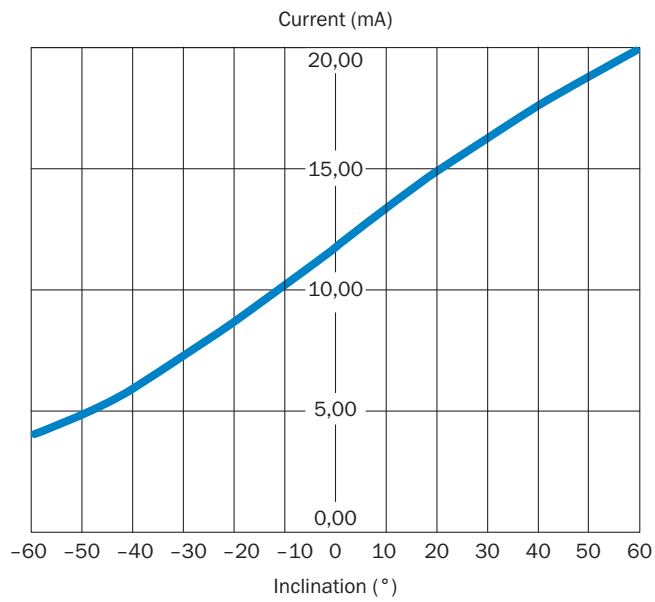
Dimensions in mm (inch)

Anschlussbelegung



PINPlug, M12, 5-pin	Wire colors (cable connection)	Signal	Description
1	Brown	VDC	Supply voltage
2	White	Y-OUT	Sensorsignal y-axis
3	Blue	GND	0V (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	Type	part no.
connectors and cables			
	Connection type head A: Female connector, M12, 5-pin, straight, A-coded Description: Unshielded 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 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, shielded, Power	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: Drag chain operation, Zones with oils and lubricants, Robot, Drag chain operation	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: Drag chain operation, Zones with oils and lubricants, Robot, Drag chain operation	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: Drag chain operation, Zones with oils and lubricants, Robot, Drag chain operation	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: Drag chain operation, Zones with oils and lubricants, Robot, Drag chain operation	YG2A25-050UB6XLEAX	2095792
	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: Drag chain operation, Zones with oils and lubricants, Robot, Drag chain operation	YG2A25-100UB6XLEAX	2095793
	Connection type head A: Female connector, M12, 5-pin, angled, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 0.6 m, 5-wire, PUR, halogen-free Description: Sensor/actuator cable, shielded Application: Drag chain operation, Zones with oils and lubricants, Robot, Drag chain operation	YG2A25-C60UB6XLEAX	2145612
	Connection type head A: Female connector, M12, 5-pin, angled, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 1 m, 5-wire, PUR, halogen-free Description: Sensor/actuator cable, shielded Application: Drag chain operation, Zones with oils and lubricants, Robot, Drag chain operation	YG2A25-010UB6XLEAX	2145613
	Connection type head A: Female connector, M12, 5-pin, angled, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 2 m, 5-wire, PUR, halogen-free Description: Sensor/actuator cable, shielded Application: Drag chain operation, Zones with oils and lubricants, Robot, Drag chain operation	YG2A25-020UB6XLEAX	2145614

SICK AT A GLANCE

SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

For us, that is “Sensor Intelligence.”

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Contacts and other locations –www.sick.com