

TILTIX Inclinometer

ACS-080-2-M100-HK2-PN





General Specifications

Application	2-Axes Position Monitoring and Leveling
Measurement Range	± 80°
Absolute Accuracy	±0.10° (within +/-60° range)
Resolution	0.01°

Electrical Specifications

Supply Voltage	4.5 – 30 VDC
Current Consumption	≤ 100 mA @5V, ≤ 45 mA @10V, ≤ 25 mA @24V
EMC: Emitted Interference	DIN EN 61000-6-4
EMC: Noise Immunity	DIN EN 61000-6-2
Reverse Polarity Protection	Yes
Short Circuit Protection	Yes
MTTF	450 years @ 40 °C

Environmental Specifications

Operating Temperature	- +85 °C (+185 °F)
Storage Temperature	-40 °C (-40 °F) - +85 °C (+185 °F)
Temperature Gradient	0.004°/ K
Protection Class	IP68/IP69K
Shock Resistance	≤ 100 g (half sine 6 ms, EN 60068-2-27)

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Vibration Resistance		1.5 mm (10 Hz - 58 Hz) $\& \le 20$ g (58 Hz to 2000 Hz)
Mechanical Specification	ns	
Housing Material		Die-Cast Aluminum Alloy
Potting Material		PUR (Polyurethane)
Weight		220 g (0.49 lb)
Interface		
Interface		Modbus RTU
Settling Time		320 ms
Output Driver		Line Driver RS485
Default Node ID		127d
Electrical Connection Connection Type		Connector 2 x M12 (m+f)
Connector 1		M12, Male, 5 pin, a coded
Connector 2		M12, Female, 5 pin, a coded
Product Life Cycle		
Product Life Cycle		New
Certification		
Approval		CE + cULus
Connection Plan		
SIGNAL	CONNECTOR	PIN NUMBER
Power Supply	Connector 1	2
GND	Connector 1	3

Dimensional Drawing

2D Drawing

RS485 A +

RS485 B -

Signal GND

RS485 A +

RS485 B -

Signal GND

GND

Power Supply

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5

1 2

3

4

5

Connector 1

Connector 1

Connector 1

Connector 2

Connector 2

Connector 2

Connector 2

Connector 2



Accessories

Connectors & Cables
M12, 5pin A-Coded, Male
5m PUR Cable, 5pin, A-Coded, f
2m PUR Cable, 5pin, A-Coded, f
Angled M12, 5pin A-Coded, Female
2m PUR Cable, 5pin, A-Coded, m
10m PUR Cable, 5pin, A-Coded, f
5m PUR Cable, 5pin, A-Coded, m
POS M12 5pin-A Female+5m PUR Cable
10m PUR Cable, 5pin, A-Coded, m
POS M12 5pin-A Female+2m PUR Cable
10m PUR Cable, 5pin, A-Coded, m
POS M12 5pin-A Female+2m PUR Cable
POS M12 5pin-A Female+10m PUR Cable
M12, 5pin A-Coded, Female
More

Got questions? Need an individual solution? We are here to help!

Sold & Serviced By:



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All dimension in [inch] mm. This drawing and the information contained is for general presentation purposes only. Please refer to the "Download" section for detailed technical drawings. FRABA B.V., All rights reserved. We do not assume responsibility for technical inaccuracies or omissions. Specifications are subject to change without notice.

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