



# POSITAL

## FRABA

### TILTIX Inclinometer

### ACS-080-2-M100-HK2-PM



#### General Specifications

Application	2-Axes Position Monitoring and Leveling
Measurement Range	$\pm 80^\circ$
Absolute Accuracy	0.10°
Resolution	0.01°

#### Electrical Specifications

Supply Voltage	4.5 - 30 VDC (On power supplies comply with EN 50178)
EMC: Emitted Interference	DIN EN 61000-6-4
EMC: Noise Immunity	DIN EN 61000-6-2
Reverse Polarity Protection	Yes
Short Circuit Protection	Yes

#### Environmental Specifications

Operating Temperature	-40 °C (-40 °F) - +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	$\leq 100$ g (half sine 6 ms, EN 60068-2-27)
Vibration Resistance	1.5 mm (10 Hz - 58 Hz) & $\leq 20$ g (58 Hz to 2000 Hz)

#### Mechanical Specifications

Housing Material	Die-Cast Aluminum Alloy
Potting Material	PUR (Polyurethane)



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Weight	220 g (0.49 lb)
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### Certificates / Lifetime

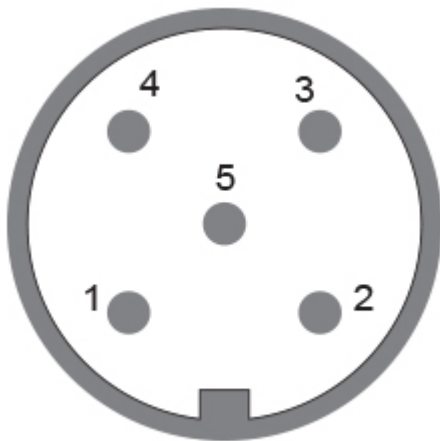
MTTF	300 years
Certificates	CE

### Interface

Interface	Modbus RTU
Settling Time	320 ms
Output Driver	Line Driver RS485
Default Node ID	127d

### Electrical Connection

Connection Type	Connector M12
Connector	M12, Male, 5 pin, a coded



### Connection Plan

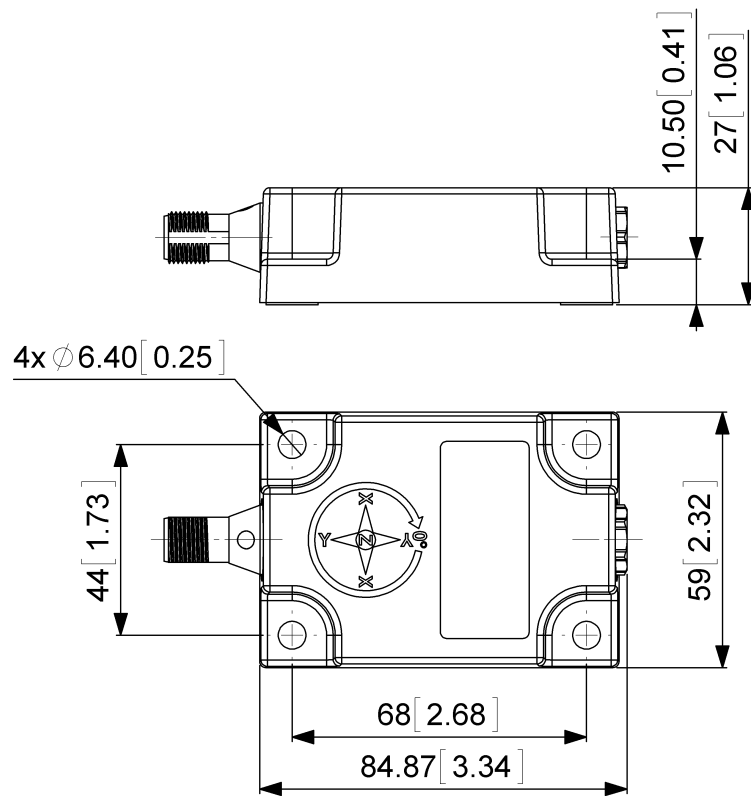
SIGNAL	PIN NUMBER
Power Supply	2
GND	3
RS485 A +	4
RS485 B -	5
Not Connected	1

### Dimensional Drawing



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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.