



TILTIX Inclinometer

ACS-060-2-SC00-HE2-PM



General Specifications

Application	2-Axes Position Monitoring and Leveling
Measurement Range	± 60°
Absolute Accuracy	±0.10°
Resolution	0.01°

Electrical Specifications

Supply Voltage	10 – 30 VDC (See also Interface: Max Load Resistance)
Power Consumption (no load)	≤ 0.7 W
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	350 years @ 40 °C

Environmental Specifications

Shock Resistance	≤ 100 g (half sine 6 ms, EN 60068-2-27)
Protection Class	IP66/IP67
Temperature Gradient	0.004°/ K
Storage Temperature	-40 °C (-40 °F) – +85 °C (+185 °F)
Operating Temperature	-40 °C (-40 °F) - +85 °C (+185 °F)

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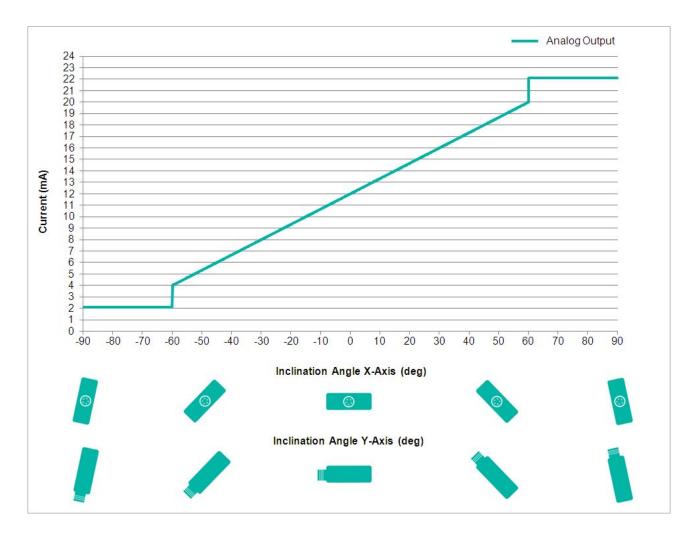
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Vibration Resistance	1.5 mm (10 Hz – 58 Hz) & \leq 20 g (58 Hz to 2000 Hz)
Mechanical Specifications	
Housing Material	Fibre-Reinforced PBT (Polybutylene Terephthalate)
Potting Material	PUR (Polyurethane)
Weight	100 g (0.22 lb)
Interface	
Interface	Analog Current 4 – 20 mA + RS232
Teach In	Zero Positioning, Inverse Direction, Elevation Range Programming
Settling Time	125 ms
Output Type	Current 4 – 20 mA
Max Load Resistance	270 Ω @ 10 V DC (500 Ω @ 15 V DC)
Transmission Rate	RS232: min. 1200 Baud; max. 115200 Baud
Default Transmission Rate	RS232: 9600 Baud
Linearity	± 0.02%

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Connection Type	Connector M12
Connector	M12, Male, 8 pin, a coded
Dreduct Life Cycle	
Product Life Cycle	

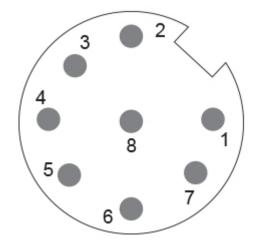
Approval

CE + cULus

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Connection Plan

SIGNAL	PIN NUMBER
SIGNAL	
Power Supply	1
GND	4
X-Axis, Current Output	5
Y-Axis, Current Output	7
Set1	6
Set2	8
RxD	2
TxD	3

Dimensional Drawing

2D Drawing

Accessories

Connectors & Cables 10m PUR Cable, 8pin, A-Coded, f POS M12 8pin-A Female+5m PUR Cable POS M12 8pin-A Female+2m PUR Cable POS M12 8pin-A Female+10m PUR Cable M12, 8pin A-Coded, Female More Displays AP22-D0 Analog Display (4 dig. o/p) DiMod-A Analog Display Data Sheet

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



Contact Us

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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