



TILTIX Inclinometer

ACS-020-2-SC00-HE2-PM



General Specifications

Application	2-Axes Position Monitoring and Leveling
Measurement Range	± 20°
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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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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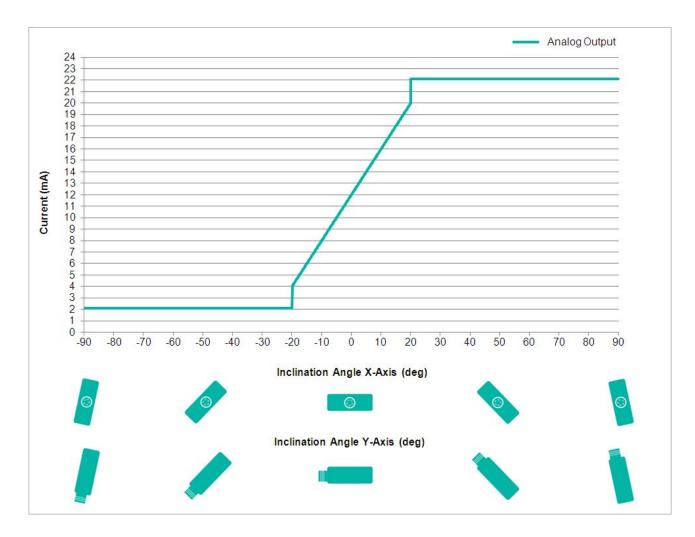
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Connection Type	Connector M12
Connector	M12, Male, 8 pin, a coded
Product Life Cycle	

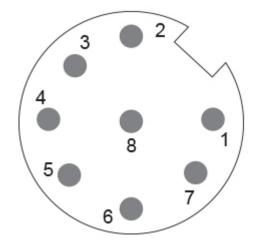
Approval

CE + cULus

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Connection Plan

SIGNAL	PIN NUMBER
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!

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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.