



TILTIX Inclinometer

ACS-020-2-SC00-HK2-AW

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General Specifications

Application	2-Axes Position Monitoring and Leveling
Measurement Range	$\pm 20^\circ$
Absolute Accuracy	0.10°
Resolution	0.01°

Electrical Specifications

Supply Voltage	10 - 30 VDC (See also Interface: Max Load Resistance)
Power Consumption (no load)	$\leq 0.7 \text{ W}$
EMC: Emitted Interference	DIN EN 61000-6-4
EMC: Noise Immunity	DIN EN 61000-6-2
Reverse Polarity Protection	Yes
Short Circuit Protection	Yes

Environmental Specifications

Operating Temperature	$-40^\circ \text{C} (-40^\circ \text{F}) - +80^\circ \text{C} (+176^\circ \text{F})$
Storage Temperature	$-40^\circ \text{C} (-40^\circ \text{F}) - +85^\circ \text{C} (+185^\circ \text{F})$
Temperature Gradient	$0.004^\circ / \text{K}$
Protection Class	IP68/IP69K
Shock Resistance	$\leq 100 \text{ g}$ (half sine 6 ms, EN 60068-2-27)
Vibration Resistance	1.5 mm (10 Hz - 58 Hz) & $\leq 20 \text{ g}$ (58 Hz to 2000 Hz)

Data Sheet

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Mechanical Specifications

Housing Material	Die-Cast Aluminum Alloy
Potting Material	PUR (Polyurethane)
Weight	1720 g (3.79 lb)

Certificates / Lifetime

MTTF	350 years @ 40 °C
Certificates	CE

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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Electrical Connection

Connection Type	Cable 10 m
Cable Length	10 m [394"]
Wire Cross Section	0.34 mm ² / AWG 22
Material / Type	PUR / PU
Cable Diameter	7.5 mm (0.30 in)
Minimum Bend Radius	56 mm (2.2") fixed, 75 mm (3") flexing

Product Life Cycle

Product Life Cycle	Established
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Connection Plan

SIGNAL	CABLE COLOR
Power Supply	Red

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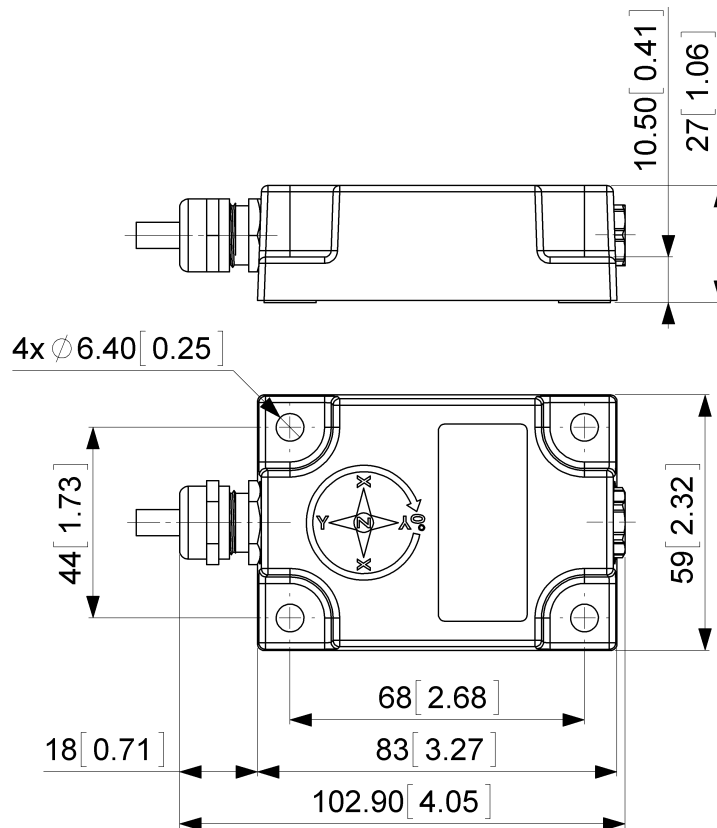
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GND	Yellow
X-Axis, Current Output	Green
Y-Axis, Current Output	Blue
RxD	Gray
TxD	Pink
Set1	Brown
Set2	White
Shielding	Shield

Dimensional Drawing



[2D Drawing](#)

Accessories

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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.