



## TILTIX Inclinometer

ADS-020-2-AC00-HK2-CW



### General Specifications

Application	2-Axes Position Monitoring and Leveling
Measurement Range	$\pm 20^\circ$
Absolute Accuracy	0.50°
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 °C (-40 °F) - +80 °C (+176 °F)
Storage Temperature	-40 °C (-40 °F) - +85 °C (+185 °F)
Temperature Gradient	0.004°/ 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	370 g (0.82 lb)

### Certificates / Lifetime

MTTF	350 years @ 40 °C
Certificates	CE

### Interface

Interface	Analog Current 4 - 20 mA
Settling Time	125 ms
Output Type	Current 4 - 20 mA
Max Load Resistance	270 $\Omega$ @ 10 V DC (500 $\Omega$ @ 15 V DC)
Linearity	$\pm 0.02\%$



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## FRABA



### Electrical Connection

Connection Type	Cable 1 m
Cable Length	1 m [39"]
Wire Cross Section	0.34 mm <sup>2</sup> / 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
GND	Yellow
X-Axis, Current Output	Green
Y-Axis, Current Output	Blue
Set1	Brown
Do Not Connect	Gray
Do Not Connect	Pink
Do Not Connect	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.