

TILTIX Inclinometer

ACS-080-2-AC00-HK3-PM



General Specifications

Application	2-Axes Position Monitoring and Leveling
Measurement Range	$\pm 80^\circ$
Absolute Accuracy	$\pm 0.10^\circ$ (within $\pm 60^\circ$ range)
Resolution	0.01°

Electrical Specifications

Supply Voltage	10 - 30 VDC
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	400 years @ 40 °C

Environmental Specifications

Operating Temperature	-40 °C (-40 °F) - +85 °C (+185 °F)
Storage Temperature	-40 °C (-40 °F) - +85 °C (+185 °F)
Temperature Gradient	$0.004^\circ / K$
Protection Class	IP68/IP69K
Shock Resistance	≤ 100 g (half sine 6 ms, EN 60068-2-27)

Data Sheet

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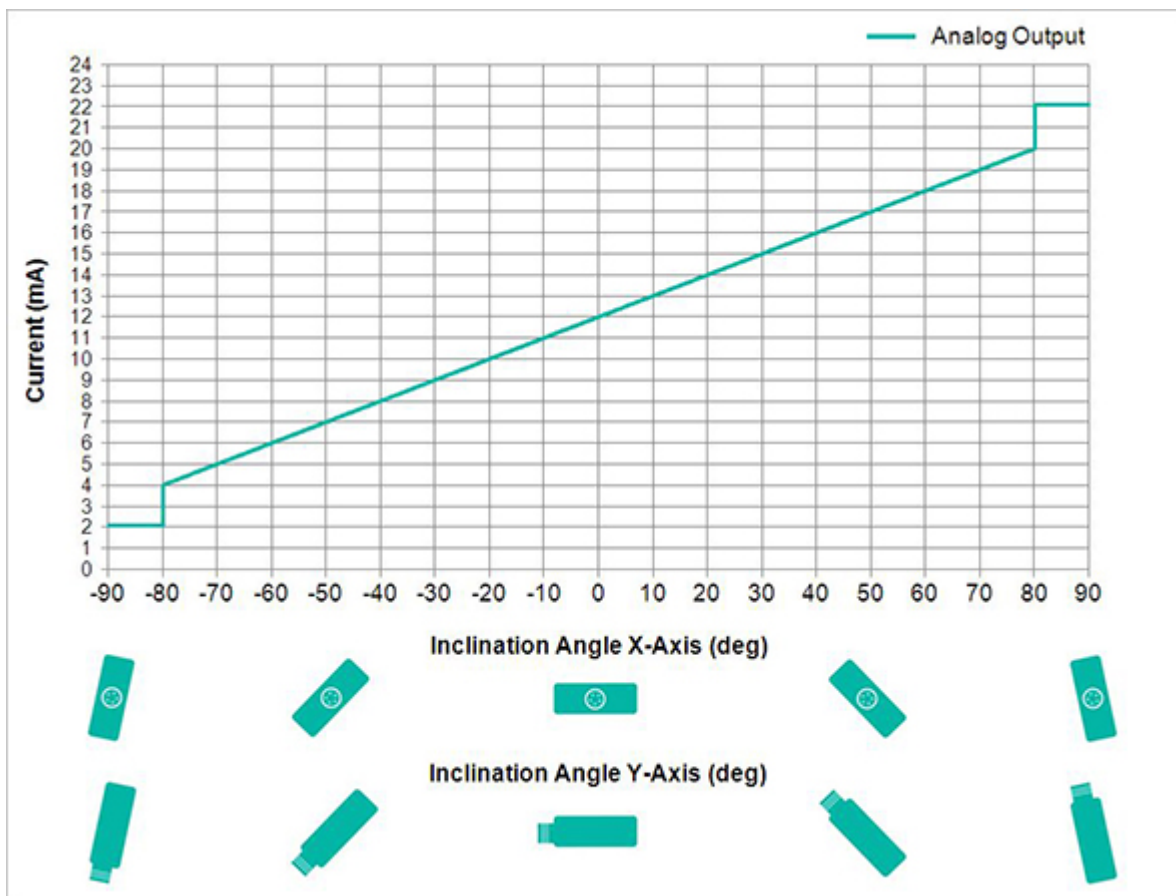
Vibration Resistance	1.5 mm (10 Hz - 58 Hz) & ≤ 20 g (58 Hz to 2000 Hz)
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Mechanical Specifications

Housing Material	Zinc
Potting Material	None
Weight	220 g (0.49 lb)

Interface

Interface	Analog Current 4 - 20 mA
Settling Time	min 30 ms; default 200 ms (dependent on filter settings)
Output Type	Current 4 - 20 mA
Max Load Resistance	270 Ω @ 10 V DC (500 Ω @ 15 V DC)
Linearity	$\pm 0.02\%$



Electrical Connection

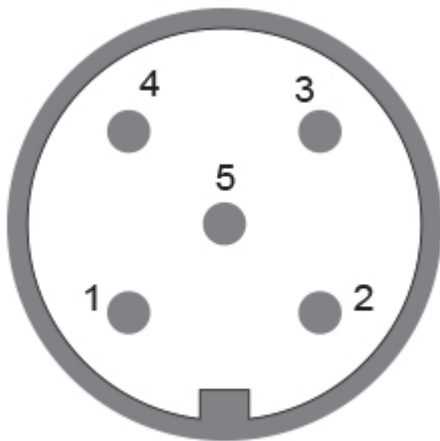
Connection Type	Connector M12 (5 pin)
Connector	M12, Male, 5 pin, a coded

Product Life Cycle

Product Life Cycle	New
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Certification

Approval	CE
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Connection Plan

SIGNAL	PIN NUMBER
Power Supply	1
GND	3
X-Axis, Current Output	4
Y-Axis, Current Output	2
Set1	5

Dimensional Drawing

[2D Drawing](#)

Accessories

Connectors & Cables
M12, 5pin A-Coded, Male
5m PUR Cable, 5pin, A-Coded, f



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

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.