



TILTIX Inclinometer

ACM-180-1-SC00-VW2-2W



General Specifications

Application	1-Axis Position Monitoring and Leveling
Measurement Range	180°
Absolute Accuracy	±0.10°
Resolution	0.01°

Electrical Specifications

Supply Voltage	10 - 30 VDC @ loads < 270 Ω, 15 - 30 VDC @ loads < 500 Ω
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

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	IP65/IP67
Shock Resistance	≤ 100 g (half sine 6 ms, EN 60068-2-27)

Data Sheet

Printed at 15-12-2023 11:12



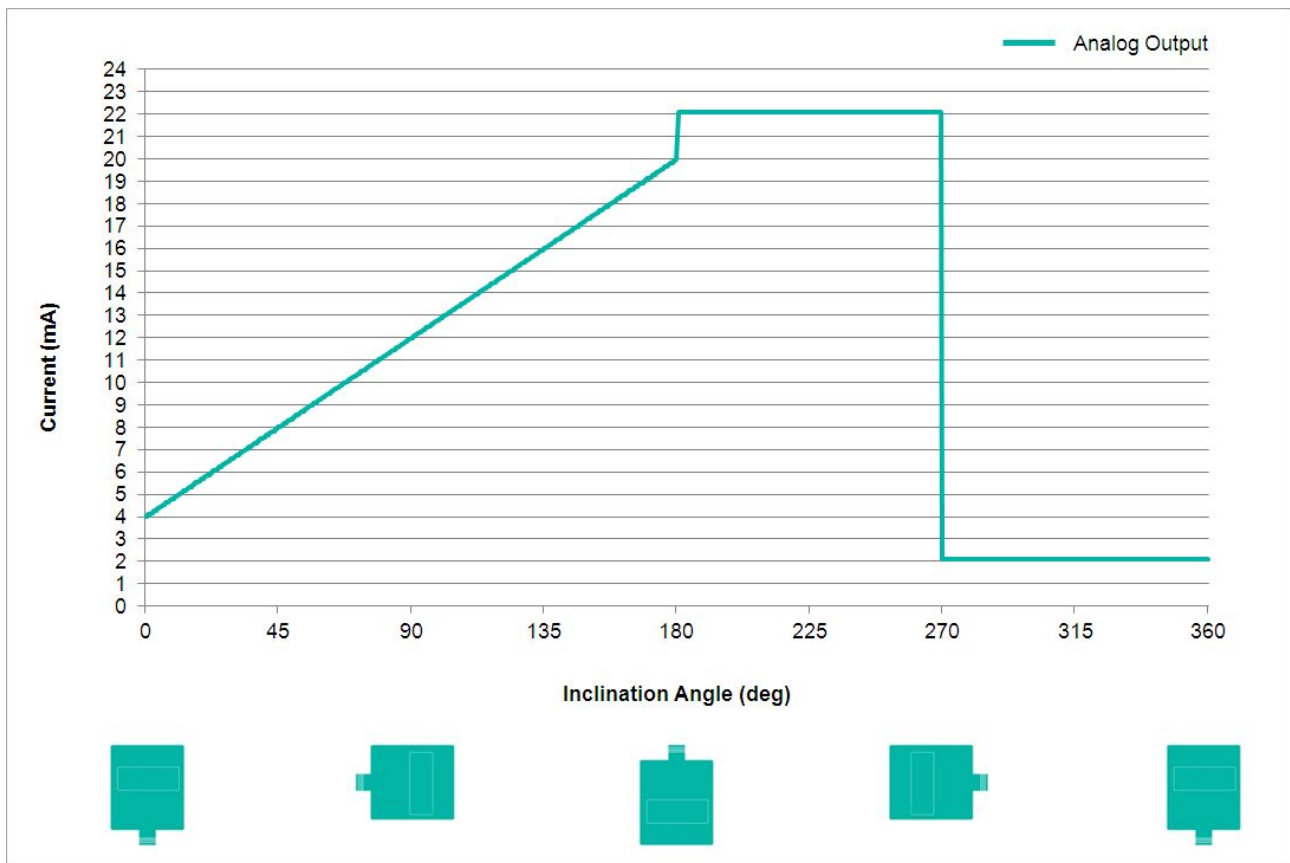
Vibration Resistance	1.5 mm (10 Hz - 58 Hz) & ≤ 20 g (58 Hz to 2000 Hz)
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Mechanical Specifications

Housing Material	Stainless Steel V4A (1.4404, 316 L)
Potting Material	PUR (Polyurethane)
Weight	1055 g (2.33 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	$\pm 0.02\%$





Electrical Connection

Connection Type	Cable 2 m
Connector	Cable 2 m
Minimum Bend Radius	50 mm (2") fixed, 100 mm (4") flexing

Product Life Cycle

Product Life Cycle	New
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Certification

Approval	CE + ATEX Zone 1 & 21 (Mining)
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Connection Plan

SIGNAL	CABLE COLOR
GND	Yellow
Power Supply	Red
Not Connected	Blue
Set2	White
RxD	Gray
TxD	Pink
Set1	Brown
Analog Output	Green

Dimensional Drawing

[2D Drawing](#)

Accessories

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.