



## TILTIX Inclinometer

ADS-180-1-AV00-VK2-PM

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### General Specifications

Application	1-Axis Position Monitoring and Leveling
Measurement Range	180°
Absolute Accuracy	0.50°
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

### 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°/ K
Protection Class	IP68/IP69K
Shock Resistance	≤ 100 g (half sine 6 ms, EN 60068-2-27)
Vibration Resistance	1.5 mm (10 Hz - 58 Hz) & ≤ 20 g (58 Hz to 2000 Hz)

Data Sheet

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### Mechanical Specifications

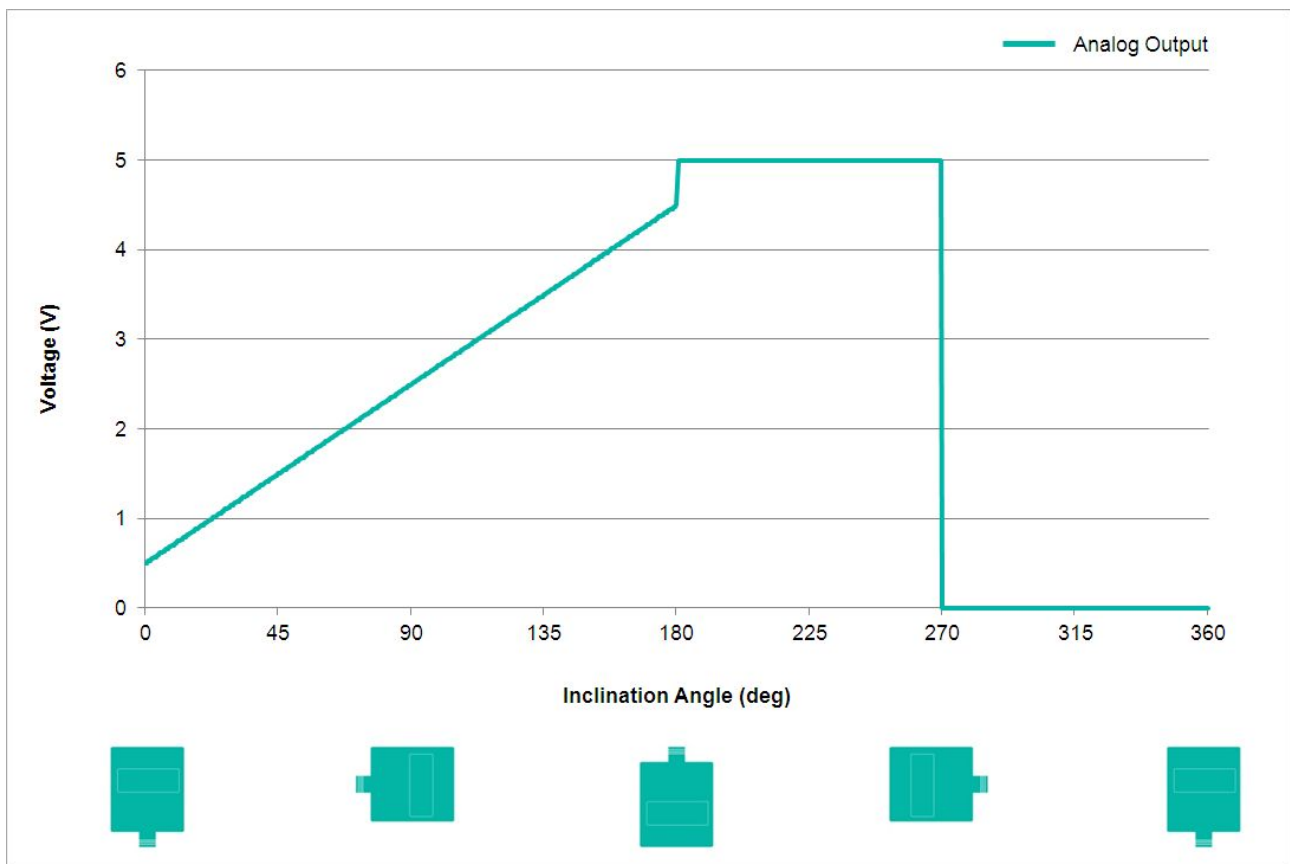
Housing Material	Die-Cast Aluminum Alloy
Potting Material	PUR (Polyurethane)
Weight	220 g (0.49 lb)

### Certificates / Lifetime

MTTF	400 years @ 40 °C
Certificates	CE

### Interface

Interface	Analog Voltage 0.5 - 4.5 V
Settling Time	125 ms
Output Type	Voltage 0.5 - 4.5 V
Min Load Resistance	5 k $\Omega$
Linearity	$\pm 0.02\%$



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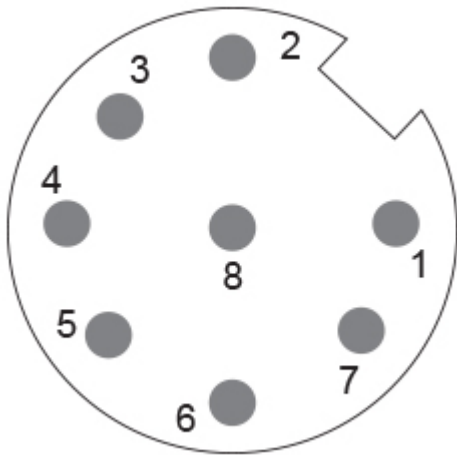


### Electrical Connection

Connection Type	Connector M12
Connector	M12, Male, 8 pin, a coded

### Product Life Cycle

Product Life Cycle	Established
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### Connection Plan

SIGNAL	PIN NUMBER
Power Supply	1
GND	4
Z-Axis, Voltage Output	5
Set1	6
Do Not Connect	8
Do Not Connect	2
Do Not Connect	3
Do Not Connect	7

### Dimensional Drawing

[2D Drawing](#)

### Accessories

Connectors & Cables  
5m PUR Cable, 8pin, A-Coded, f

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2m PUR Cable, 8pin, A-Coded, f  
10m PUR Cable, 8pin, A-Coded, f  
5m PUR Cable, 8pin, A-Coded, f  
10m PUR Cable, 8pin, A-Coded, f  
2m PUR Cable, 8pin, A-Coded, f  
10m PUR Cable, 8pin, A-Coded, f  
M12, 8pin A-Coded, Female  
More  
Displays  
AP22-D0 Analog Display (4 dig. o/p)  
DiMod-A Analog Display

### Contact



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.