



TILTIX Inclinometer

ACS-180-1-SV10-VE2-PM





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
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°/ K
Protection Class	IP66/IP67
Shock Resistance	≤ 100 g (half sine 6 ms, EN 60068-2-27)





Vibration Resistance	1.5 mm (10 Hz - 58 Hz) $\& \le 20 \text{ g}$ (58 Hz to 2000
	Hz)

Housing Material	Fibre-Reinforced PBT (Polybutylene Terephthalate)
Potting Material	PUR (Polyurethane)
Weight	100 g (0.22 lb)
Interface	
Interface	Analog Voltage 0-5 V + RS232
Interface Teach In	Analog Voltage 0-5 V + RS232 Zero Positioning, Inverse Direction, Elevation Range Programming

Settling Time	125 ms
Output Type	Voltage 0 – 5 V
Min Load Resistance	5 kΩ
Transmission Rate	RS232: min. 1200 Baud; max. 115200 Baud
Default Transmission Rate	RS232: 9600 Baud
Linearity	± 0.02%

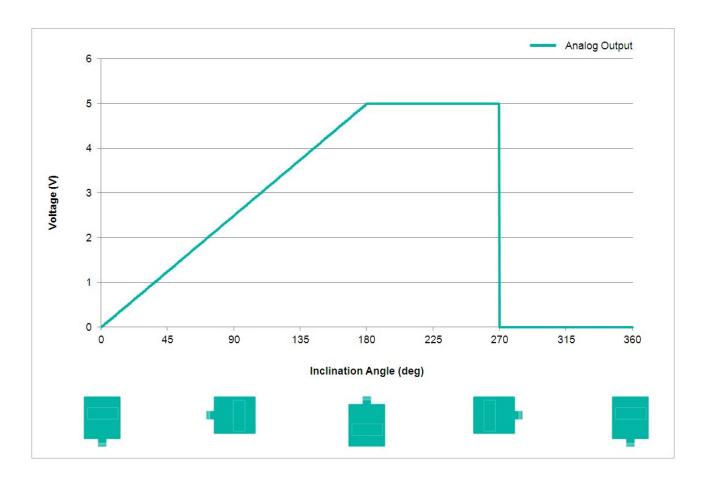
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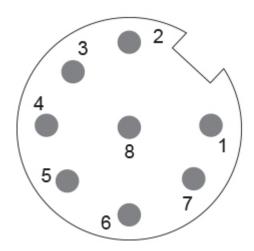


Electrical Connection

Connection Type	Connector M12
Connector	M12, Male, 8 pin, a coded
Product Life Cycle	
Product Life Cycle	Established
Certification	
Approval	CE + cULus

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Connection Plan

SIGNAL	PIN NUMBER
Power Supply	1
GND	4
Z-Axis, Voltage Output	5
Set1	6
Set2	8
RxD	2
TxD	3
Not Connected	7

Dimensional Drawing

2D Drawing

Accessories

Connectors & Cables
10m PUR Cable, 8pin, A-Coded, f
POS M12 8pin-A Female+5m PUR Cable
POS M12 8pin-A Female+2m PUR Cable
POS M12 8pin-A Female+10m PUR Cable
M12, 8pin 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!

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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.