



TILTIX Inclinometer

ACS-080-2-CA01-HK2-PN

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General Specifications

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

Electrical Specifications

Supply Voltage	10 - 30 VDC
Current Consumption	≤ 65 mA @ 10 V DC, ≤ 60 mA @ 24 V DC
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) - $+85^\circ\text{C}$ ($+185^\circ\text{F}$)
Storage Temperature	-40°C (-40°F) - $+85^\circ\text{C}$ ($+185^\circ\text{F}$)
Temperature Gradient	$0.004^\circ/\text{K}$
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	Die-Cast Aluminum Alloy
Potting Material	PUR (Polyurethane)
Weight	220 g (0.49 lb)

Interface

Interface	CANopen
Settling Time	150 ms
Output Driver	Transceiver (ISO 11898), Galvanically Isolated by Opto-Coupl
Profile	DS-410
Transmission Rate	min. 20 kBaud, max. 1 MBaud
Default Transmission Rate	125 kBaud
Default Node ID	1h

Electrical Connection

Connection Type	Connector 2 x M12 (m+f)
Connector 1	M12, Male, 5 pin, a coded
Connector 2	M12, Female, 5 pin, a coded

Product Life Cycle

Product Life Cycle	Established
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Certification

Approval	CE + cULus
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Connection Plan

SIGNAL	CONNECTOR	PIN NUMBER
Power Supply	Connector 1	2
GND	Connector 1	3
CAN High	Connector 1	4
CAN Low	Connector 1	5
CAN GND	Connector 1	1
Power Supply	Connector 2	2
GND	Connector 2	3
CAN High	Connector 2	4
CAN Low	Connector 2	5
CAN GND	Connector 2	1



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

Got questions? Need an individual solution? We are here to help!

Sold & Serviced By:



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.