



TILTIX Inclinometer

AKS-090-2-CA01-HK2-PV

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General Specifications

Application	Dynamic Inclinometer 2-Axes
Measurement Range	$\pm 90^\circ$
Absolute Accuracy	0.30°
Resolution	0.01°
Repeatability	0.05°
Dynamic Accuracy	0.50°
Cycle Time Base Sensor	5 ms
Hysteresis	0.05°

Electrical Specifications

Supply Voltage	9 - 30 VDC
Current Consumption	$\leq 65 \text{ mA @ } 10 \text{ V DC}, \leq 60 \text{ mA @ } 24 \text{ V DC}$
EMC: Emitted Interference	DIN EN 61000-6-4
EMC: Noise Immunity	DIN EN 61000-6-2
Reverse Polarity Protection	Yes
Short Circuit Protection	Yes

Environmental Specifications

Operating Temperature	-40 °C (-40 °F) - +75 °C (+167 °F)
Storage Temperature	-40 °C (-40 °F) - +85 °C (+185 °F)
Temperature Gradient	0.008°/ K

Data Sheet

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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)

Mechanical Specifications

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

Certificates / Lifetime

MTTF	260 years @ 40 °C
Certificates	CE

Interface

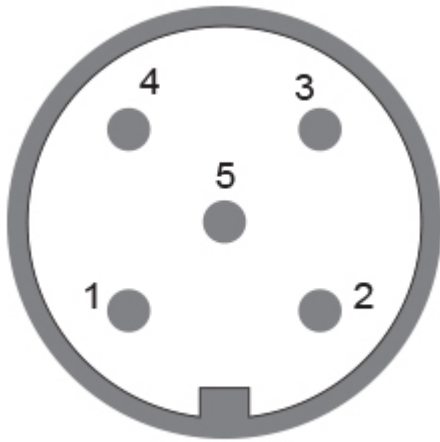
Interface	CANopen
Settling Time	50 ms
Output Driver	Transceiver (ISO 11898), Galvanically Isolated by Opto-Coupl
Profile	DS-410
Transmission Rate	min. 20 kBaud, max. 1 MBaud
Default Transmission Rate	125 kBaud
Default Node ID	1h

Electrical Connection

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

Product Life Cycle

Product Life Cycle	New
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Connection Plan

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

Dimensional Drawing

[2D Drawing](#)

Accessories

Connectors & Cables

- 10m PUR Cable, 5pin, A-Coded, f
 - 5m PUR Cable, 5pin, A-Coded, f
 - 2m PUR Cable, 5pin, A-Coded, f
 - 5m PUR Cable, 5pin, A-Coded, f
 - 2m PUR Cable, 5pin, A-Coded, f
 - 10m PUR Cable, 5pin, A-Coded, f
 - 10m PUR Cable, 5pin, A-Coded, f
 - M12, 5pin A-Coded, Female
- More



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.