POSITAL FRABA

TILTIX Inclinometer

AKS-180-F-CA01-VK2-PV



General Specifications

Application	Dynamic Inclinometer 2-Axes with Pitch and Roll
Measurement Range	Pitch \pm 85°, Roll \pm 180°
Absolute Accuracy	±0.30°
Resolution	0.01°
Repeatability	≤0.05°
Dynamic Accuracy	±0.50°
Cycle Time Base Sensor	5 ms
Hysteresis	≤0.05°
Device Orientation	Vertical

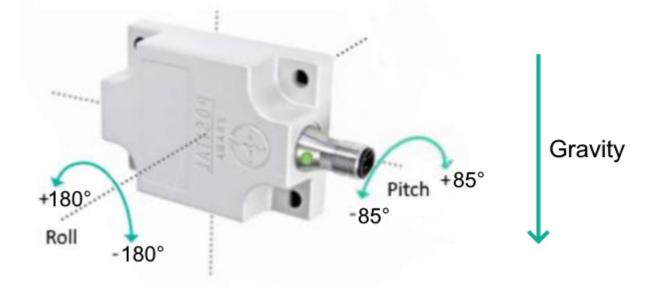
Sold & Serviced By:





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Electrical Specifications

Supply Voltage	9 – 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	260 years @ 40 °C

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
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)

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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
Certification	
Approval	CE + E1
Connection Plan	
SIGNAL	PIN NUMBER
SIGNAL Power Supply	PIN NUMBER 2
Power Supply	2
Power Supply GND	2 3

Dimensional Drawing

2D Drawing

Accessories

Connectors & Cables 5m PUR Cable, 5pin, A-Coded, f 2m PUR Cable, 5pin, A-Coded, f 10m PUR Cable, 5pin, A-Coded, f

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POS M12 5pin-A Female+5m PUR Cable POS M12 5pin-A Female+2m PUR Cable POS M12 5pin-A Female+10m PUR Cable 10m PUR Cable, 5pin, A-Coded, f IP69K M12, 5pin A-Coded, Female More

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



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.