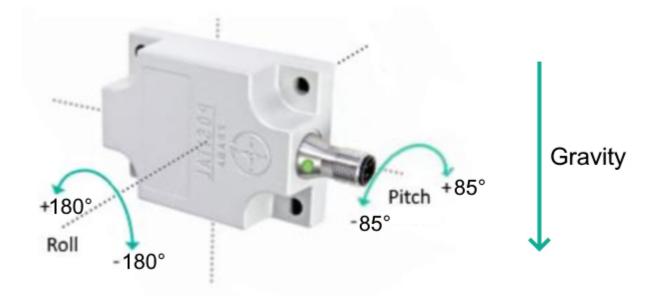
POSITAL FRABA

TILTIX Inclinometer

AKS-180-F-C901-VK2-PL

General Specifications

Application	Dynamic Inclinometer 2-Axes with Pitch and Ro	
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	



Electrical Specifications

≤ 65 mA @ 10 V DC, ≤ 60 mA @ 24 V DC DIN EN 61000-6-4	
DIN EN 61000-6-4	
DIN EN 61000-6-2	
Yes	
Yes	
260 years @ 40 °C Data Sheet	

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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) & \leq 20 g (58 Hz to 20 Hz)		

Mechanical Specifications

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

Interface

Interface	J1939		
Settling Time	50 ms		
Output Driver	Transceiver (ISO 11898), Galvanically Isolated by Opto-Coupl		
Transmission Rate	125 KBaud, 250 KBaud, 500 KBaud		
Default Transmission Rate	250 kBaud		
Default Node ID	C0h		
Default PGN	PGN 65280 (Pitch, Roll, Acceleration x, Acceleration y) + PGN 65281 (Acceleration z, Gyro x, Gyro y, Gyro z)		

Electrical Connection

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

Product Life Cycle

Product	Life Cycle)
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New

Certification

Approval	CE + E1

Connection Plan		
SIGNAL	CONNECTOR Data Sheet	PIN NUMBER
	Data Sheet	
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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!



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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.