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TILTIX Inclinometer

ACS-080-2-C902-HE2-2W

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General Specifications

Application	2-Axes Position Monitoring and Leveling
Measurement Range	$\pm 80^\circ$
Absolute Accuracy	0.10° (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

Environmental Specifications

Operating Temperature	-30°C fixed (-22°F), -5°C flexible ($+23^\circ\text{F}$) - $+70^\circ\text{C}$ ($+158^\circ\text{F}$)
Storage Temperature	-40°C (-40°F) - $+85^\circ\text{C}$ ($+185^\circ\text{F}$)
Temperature Gradient	$0.004^\circ/\text{K}$
Protection Class	IP66/IP67
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)

Data Sheet

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Mechanical Specifications

Housing Material	Fibre-Reinforced PBT (Polybutylene Terephthalate)
Potting Material	PUR (Polyurethane)
Weight	240 g (0.53 lb)

Certificates / Lifetime

MTTF	350 years @ 40 °C
Certificates	CE

Interface

Interface	J1939
Settling Time	150 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 65283 (Pitch, Roll)

Electrical Connection

Connection Type	Cable 2 m
Cable Length	2 m [79"]
Wire Cross Section	0.14 mm ² / AWG 26
Material / Type	PVC
Cable Diameter	6 mm (0.24 in)
Minimum Bend Radius	46 mm (1.81") fixed, 61 mm (2.4") flexing

Product Life Cycle

Product Life Cycle	New
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Certification

Approval	CE + cULus
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Connection Plan

SIGNAL	CABLE COLOR
Power Supply	Red
GND	Yellow

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CAN High	White
CAN Low	Brown
CAN GND	Green
Not Connected	Blue
Not Connected	Gray
Not Connected	Pink
Shielding	Shield

Dimensional Drawing

[2D Drawing](#)

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.