



POSITAL

FRABA

TILTIX Inclinometer

ACS-080-2-C902-HE2-PM

POSITAL
FRABA



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	-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	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

Printed at 18-02-2020 08:02



POSITAL

FRABA

Mechanical Specifications

Housing Material	Fibre-Reinforced PBT (Polybutylene Terephthalate)
Potting Material	PUR (Polyurethane)
Weight	100 g (0.22 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	Connector M12
Connector	M12, Male, 5 pin, a coded

Product Life Cycle

Product Life Cycle	New
--------------------	-----

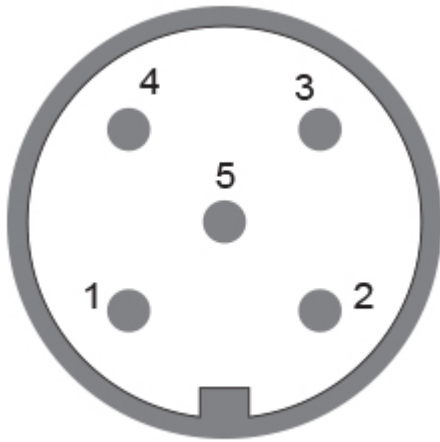
Certification

Approval	CE + cULus
----------	------------



POSITAL

FRABA



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

Data Sheet

Printed at 18-02-2020 08:02



POSITAL

FRABA

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.