



TILTIX Inclinometer

ACS-080-2-SC00-HE2-2W

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General Specifications

| | |
|-------------------|---|
| Application | 2-Axes Position Monitoring and Leveling |
| Measurement Range | $\pm 80^\circ$ |
| Absolute Accuracy | 0.10° |
| Resolution | 0.01° |

Electrical Specifications

| | |
|-----------------------------|---|
| Supply Voltage | 10 - 30 VDC (See also Interface: Max Load Resistance) |
| Power Consumption (no load) | ≤ 0.7 W |
| 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 °F) - +70 °C (+158 °F) |
| Storage Temperature | -40 °C (-40 °F) - +85 °C (+185 °F) |
| Temperature Gradient | $0.004^\circ / \text{K}$ |
| Protection Class | IP66/IP67 |
| Shock Resistance | ≤ 100 g (half sine 6 ms, EN 60068-2-27) |

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| | |
|----------------------|--|
| Vibration Resistance | 1.5 mm (10 Hz - 58 Hz) & ≤ 20 g (58 Hz to 2000 Hz) |
|----------------------|--|

Mechanical Specifications

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

Certificates / Lifetime

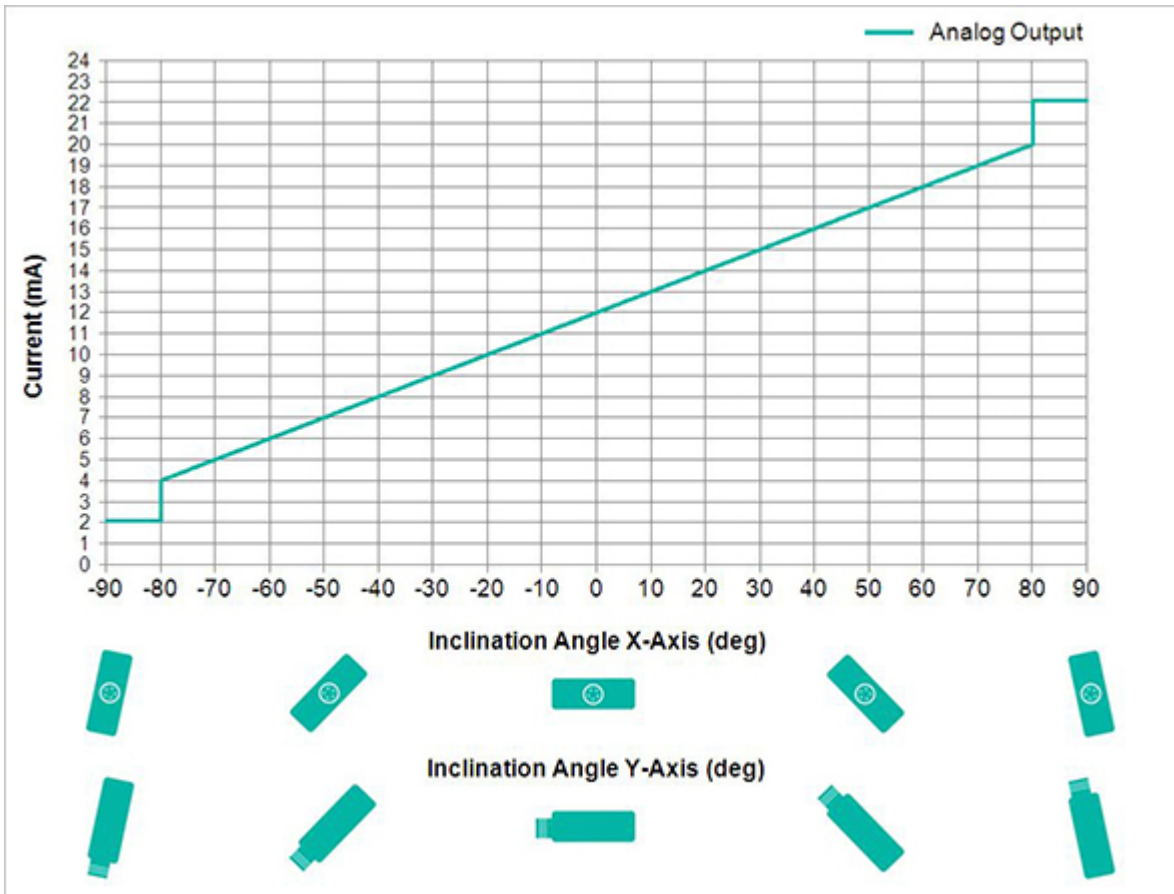
| | |
|--------------|-------------------|
| MTTF | 350 years @ 40 °C |
| Certificates | CE |

Interface

| | |
|---------------------------|--|
| Interface | Analog Current 4 - 20 mA + RS232 |
| Teach In | Zero Positioning, Inverse Direction, Elevation Range Programming |
| Settling Time | 125 ms |
| Output Type | Current 4 - 20 mA |
| Max Load Resistance | 270 Ω @ 10 V DC (500 Ω @ 15 V DC) |
| Transmission Rate | RS232: min. 1200 Baud; max. 115200 Baud |
| Default Transmission Rate | RS232: 9600 Baud |
| Linearity | ± 0.02% |

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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 | Established |
|--------------------|-------------|

Connection Plan

| | |
|------------------------|-------------|
| SIGNAL | CABLE COLOR |
| Power Supply | Red |
| GND | Yellow |
| X-Axis, Current Output | Green |

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| | |
|------------------------|--------|
| Y-Axis, Current Output | Blue |
| RxD | Gray |
| TxD | Pink |
| Set1 | Brown |
| Set2 | White |
| Shielding | Shield |

Dimensional Drawing



[2D Drawing](#)

Accessories

Contact

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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.