



## TILTIX Inclinerometer

**ADS-060-2-AV00-HE2-PM**

POSITAL  
FRABA



### General Specifications

|                   |   |
|-------------------|---|
| Application       | 2-Axes Position Monitoring and Leveling |
| Measurement Range | $\pm 60^\circ$                          |
| Absolute Accuracy | 0.50°                                   |
| Resolution        | 0.01°                                   |

### Electrical Specifications

|                             |                  |
|-----------------------------|------------------|
| Supply Voltage              | 10 - 30 VDC      |
| Power Consumption (no load) | $\leq 0.7$ 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 | -40 °C (-40 °F) - +85 °C (+185 °F)                      |
| Storage Temperature   | -40 °C (-40 °F) - +85 °C (+185 °F)                      |
| Temperature Gradient  | 0.004°/ K   |
| Protection Class      | IP66/IP67   |
| Shock Resistance      | $\leq 100$ g (half sine 6 ms, EN 60068-2-27)            |
| Vibration Resistance  | 1.5 mm (10 Hz - 58 Hz) & $\leq 20$ g (58 Hz to 2000 Hz) |

Data Sheet

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### Mechanical Specifications

|                  |   |
|------------------|---|
| Housing Material | Fibre-Reinforced PBT (Polybutylene Terephthalate) |
| Potting Material | PUR (Polyurethane)                                |
| Weight           | 100 g (0.22 lb)                                   |

### Certificates / Lifetime

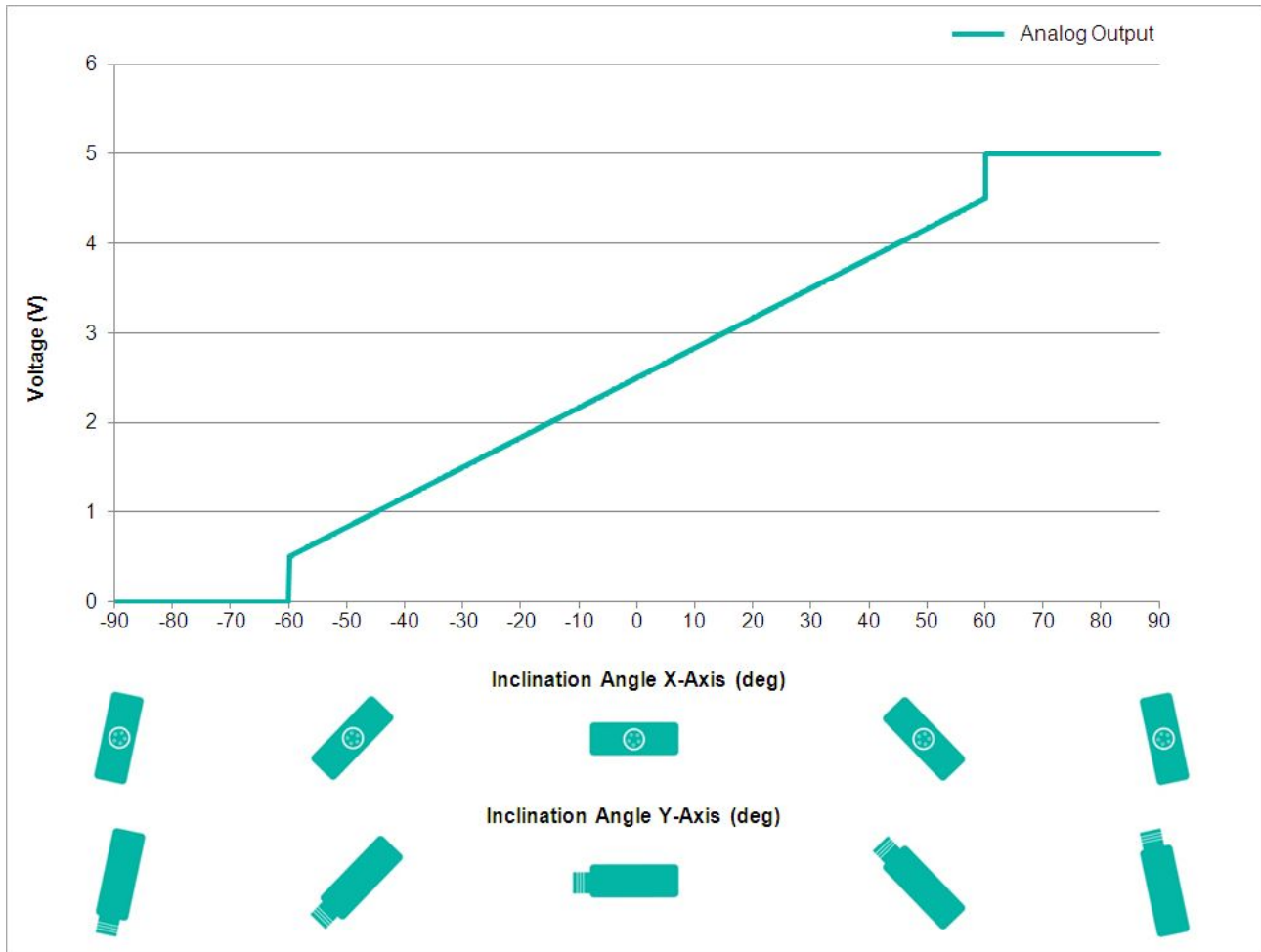
|              |                   |
|--------------|-------------------|
| MTTF         | 400 years @ 40 °C |
| Certificates | CE                |

### Interface

|                     |                            |
|---------------------|----------------------------|
| Interface           | Analog Voltage 0.5 - 4.5 V |
| Settling Time       | 125 ms                     |
| Output Type         | Voltage 0.5 - 4.5 V        |
| Min Load Resistance | 5 kΩ                       |
| Linearity           | ± 0.02%                    |

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### Electrical Connection

|                 |                           |
|-----------------|---------------------------|
| Connection Type | Connector M12             |
| Connector       | M12, Male, 8 pin, a coded |

### Product Life Cycle

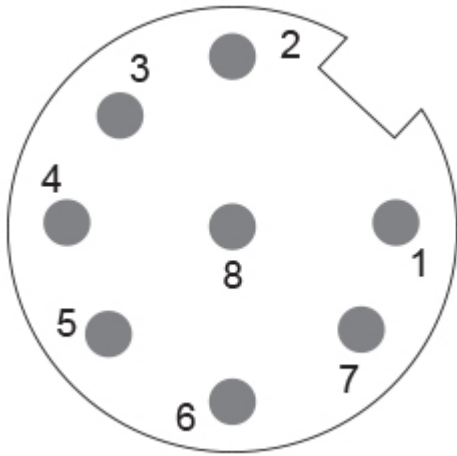
|                    |             |
|--------------------|-------------|
| Product Life Cycle | Established |
|--------------------|-------------|

### Certification

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

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### Connection Plan

| SIGNAL                 | PIN NUMBER |
|------------------------|------------|
| Power Supply           | 1          |
| GND                    | 4          |
| X-Axis, Voltage Output | 5          |
| Y-Axis, Voltage Output | 7          |
| Set1                   | 6          |
| Do Not Connect         | 8          |
| Do Not Connect         | 2          |
| Do Not Connect         | 3          |

### Dimensional Drawing

#### [2D Drawing](#)

#### Accessories

##### Connectors & Cables

5m PUR Cable, 8pin, A-Coded, f

10m PUR Cable, 8pin, A-Coded, f

2m PUR Cable, 8pin, A-Coded, f

10m PUR Cable, 8pin, A-Coded, f

M12, 8pin A-Coded, Female

More

##### Displays

AP22-D0 Analog Display (4 dig. o/p)

DiMod-A Analog Display

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### 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.