



## TILTIX Inclinometer

**ADS-090-1-AV00-VE2-2W**

POSITAL  
FRABA



### General Specifications

|                   |   |
|-------------------|---|
| Application       | 1-Axis Position Monitoring and Leveling |
| Measurement Range | 90°                                     |
| Absolute Accuracy | 0.50°                                   |
| Resolution        | 0.01°                                   |

### Electrical Specifications

|                             |                  |
|-----------------------------|------------------|
| Supply Voltage              | 10 - 30 VDC      |
| 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°/ 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

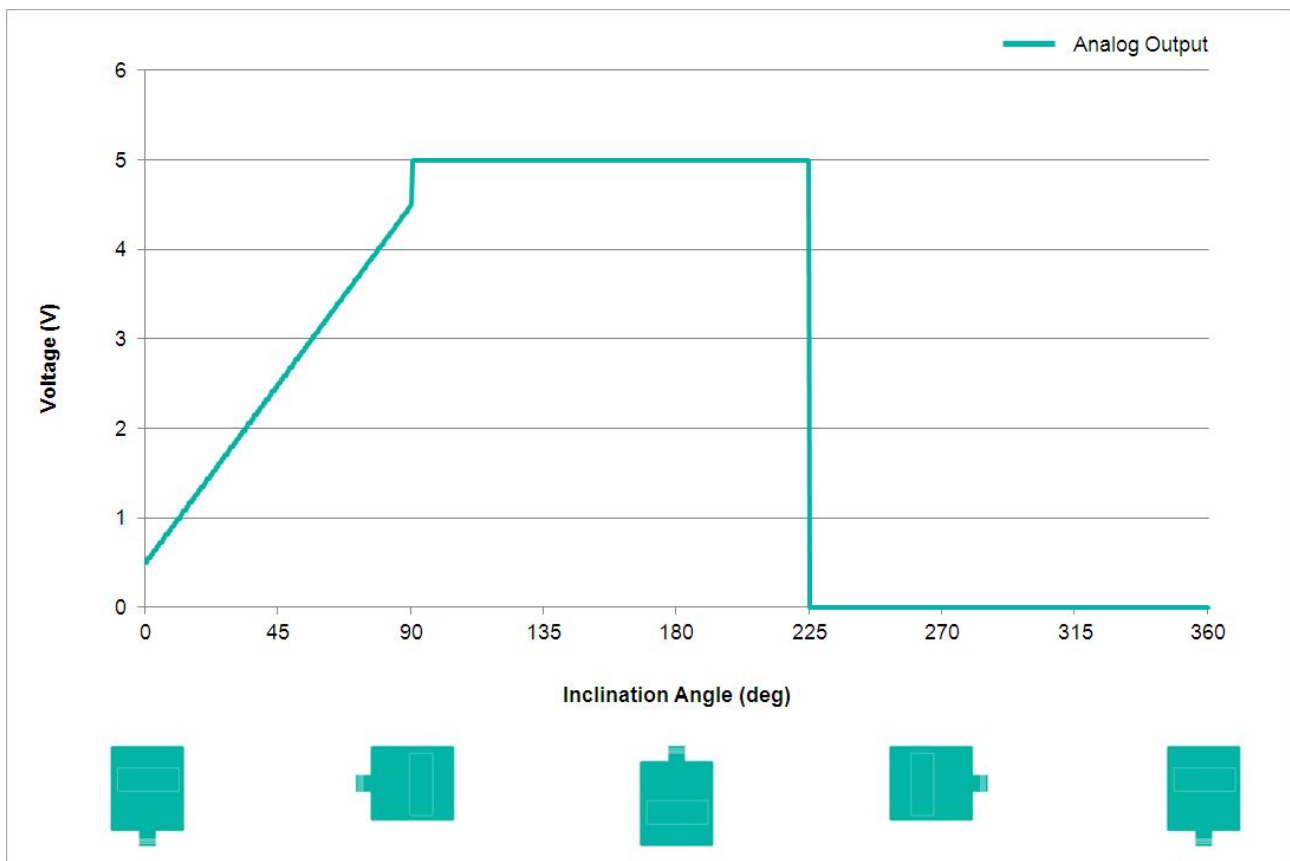
|                  |   |
|------------------|---|
| Housing Material | Fibre-Reinforced PBT (Polybutylene Terephthalate) |
| Potting Material | PUR (Polyurethane)                                |
| Weight           | 240 g (0.53 lb)                                   |

### Certificates / Lifetime

|              |                   |
|--------------|-------------------|
| MTTF         | 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 k $\Omega$               |
| Linearity           | $\pm 0.02\%$               |



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### Electrical Connection

|                     |   |
|---------------------|---|
| Connection Type     | Cable 2 m                                 |
| Cable Length        | 2 m [79"]                                 |
| Wire Cross Section  | 0.14 mm <sup>2</sup> / 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 |
|--------------------|-------------|

### Certification

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

### Connection Plan

| SIGNAL                 | CABLE COLOR |
|------------------------|-------------|
| Power Supply           | Red         |
| GND                    | Yellow      |
| Z-Axis, Voltage Output | Green       |
| Set1                   | Brown       |
| Do Not Connect         | White       |
| Do Not Connect         | Pink        |
| Do Not Connect         | Gray        |
| Do Not Connect         | Blue        |
| Shielding              | Shield      |

## Dimensional Drawing

### [2D Drawing](#)

### Accessories

#### Displays

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

DiMod-A Analog Display

### 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.