



## TILTIX Inclinometer

ADS-120-1-AC00-VK2-2W

POSITAL  
FRABA



### General Specifications

|                   |   |
|-------------------|---|
| Application       | 1-Axis Position Monitoring and Leveling |
| Measurement Range | 120°                                    |
| Absolute Accuracy | 0.50°                                   |
| 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 | -40 °C (-40 °F) - +80 °C (+176 °F)                 |
| Storage Temperature   | -40 °C (-40 °F) - +85 °C (+185 °F)                 |
| Temperature Gradient  | 0.004°/ K  |
| Protection Class      | IP68/IP69K   |
| 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

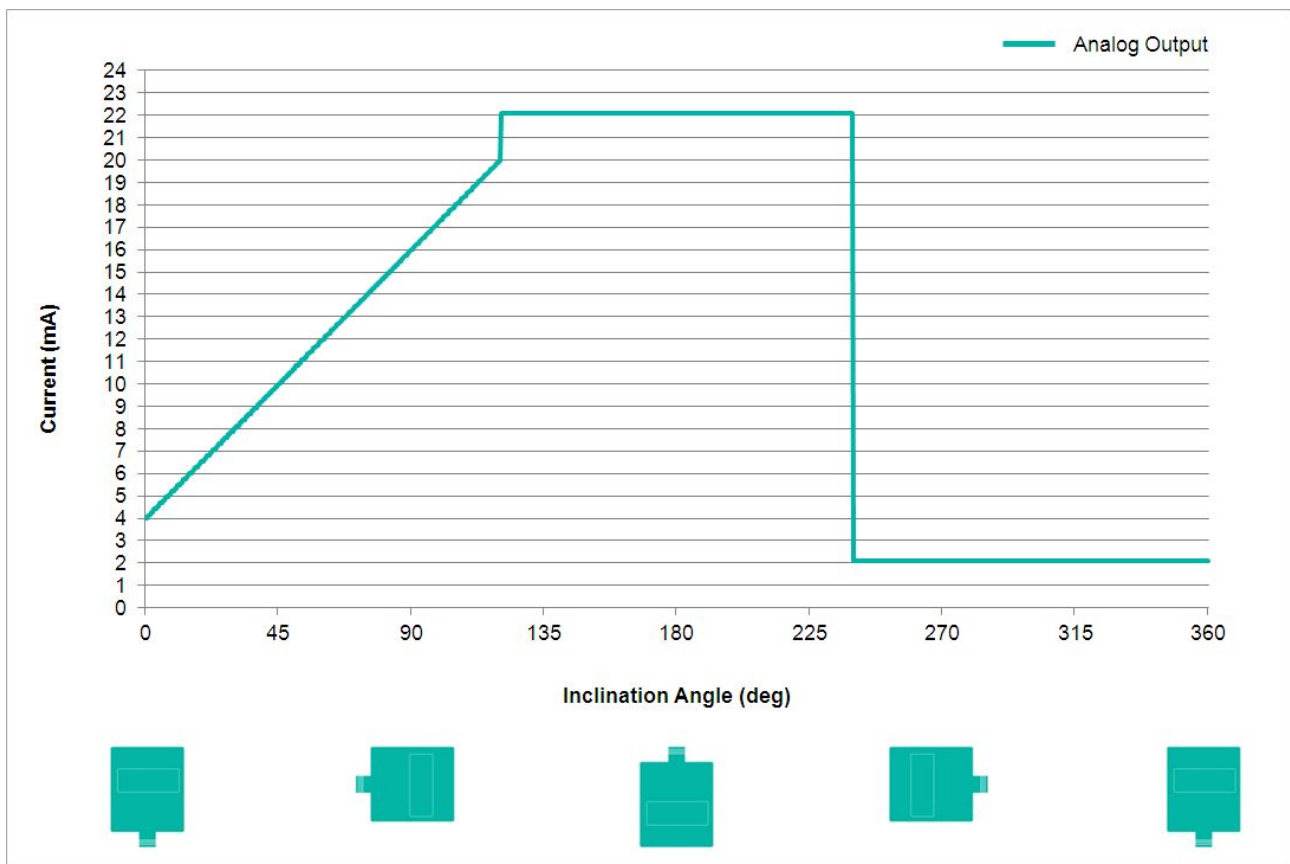
|                  |                         |
|------------------|-------------------------|
| Housing Material | Die-Cast Aluminum Alloy |
| Potting Material | PUR (Polyurethane)      |
| Weight           | 520 g (1.15 lb)         |

### Certificates / Lifetime

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

### Interface

|                     |   |
|---------------------|---|
| Interface           | Analog Current 4 - 20 mA                        |
| Settling Time       | 125 ms  |
| Output Type         | Current 4 - 20 mA                               |
| Max Load Resistance | 270 $\Omega$ @ 10 V DC (500 $\Omega$ @ 15 V DC) |
| Linearity           | $\pm 0.02\%$                                    |



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### Electrical Connection

|                     |  |
|---------------------|--|
| Connection Type     | Cable 2 m                              |
| Cable Length        | 2 m [79"]                              |
| Wire Cross Section  | 0.34 mm <sup>2</sup> / AWG 22          |
| Material / Type     | PUR / PU                               |
| Cable Diameter      | 7.5 mm (0.30 in)                       |
| Minimum Bend Radius | 56 mm (2.2") fixed, 75 mm (3") flexing |

### Product Life Cycle

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

### Certification

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

### Connection Plan

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

## Dimensional Drawing

### [2D Drawing](#)

### Accessories

#### Displays

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

DiMod-A Analog Display

### 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.