



TILTIX Inclinometer

AKS-360-1-CA01-VK2-PV

POSITAL
FRABA



General Specifications

| | |
|------------------------|-----------------------------|
| Application | Dynamic Inclinometer 1-Axis |
| Measurement Range | 360° |
| Absolute Accuracy | 0.30° |
| Resolution | 0.01° |
| Repeatability | 0.05° |
| Dynamic Accuracy | 0.50° |
| Cycle Time Base Sensor | 5 ms |
| Hysteresis | 0.05° |

Electrical Specifications

| | |
|-----------------------------|--------------------------------------|
| Supply Voltage | 9 - 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) - +75 °C (+167 °F) |
| Storage Temperature | -40 °C (-40 °F) - +85 °C (+185 °F) |
| Temperature Gradient | 0.008°/ K |

Data Sheet

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| | |
|----------------------|--|
| 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) |

Mechanical Specifications

| | |
|------------------|-------------------------|
| Housing Material | Die-Cast Aluminum Alloy |
| Potting Material | PUR (Polyurethane) |
| Weight | 220 g (0.49 lb) |

Certificates / Lifetime

| | |
|--------------|-------------------|
| MTTF | 260 years @ 40 °C |
| Certificates | CE |

Interface

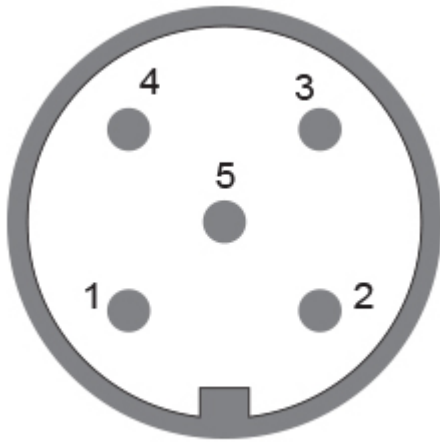
| | |
|---------------------------|--|
| Interface | CANopen |
| Settling Time | 50 ms |
| Output Driver | Transceiver (ISO 11898), Galvanically Isolated by Opto-Coupl |
| Profile | DS-410 |
| Transmission Rate | min. 20 kBaud, max. 1 MBaud |
| Default Transmission Rate | 125 kBaud |
| Default Node ID | 1h |

Electrical Connection

| | |
|-----------------|---------------------------|
| Connection Type | Connector M12 |
| Connector | M12, Male, 5 pin, a coded |

Product Life Cycle

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



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



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.