



TILTIX Inclinometer

ACS-360-1-SV10-VK2-PM

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General Specifications

| | |
|-------------------|---|
| Application | 1-Axis Position Monitoring and Leveling |
| Measurement Range | 360° |
| Absolute Accuracy | ±0.10° |
| 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 |
| MTTF | 400 years @ 40 °C |

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 | IP68/IP69K |
| Shock Resistance | ≤ 100 g (half sine 6 ms, EN 60068-2-27) |

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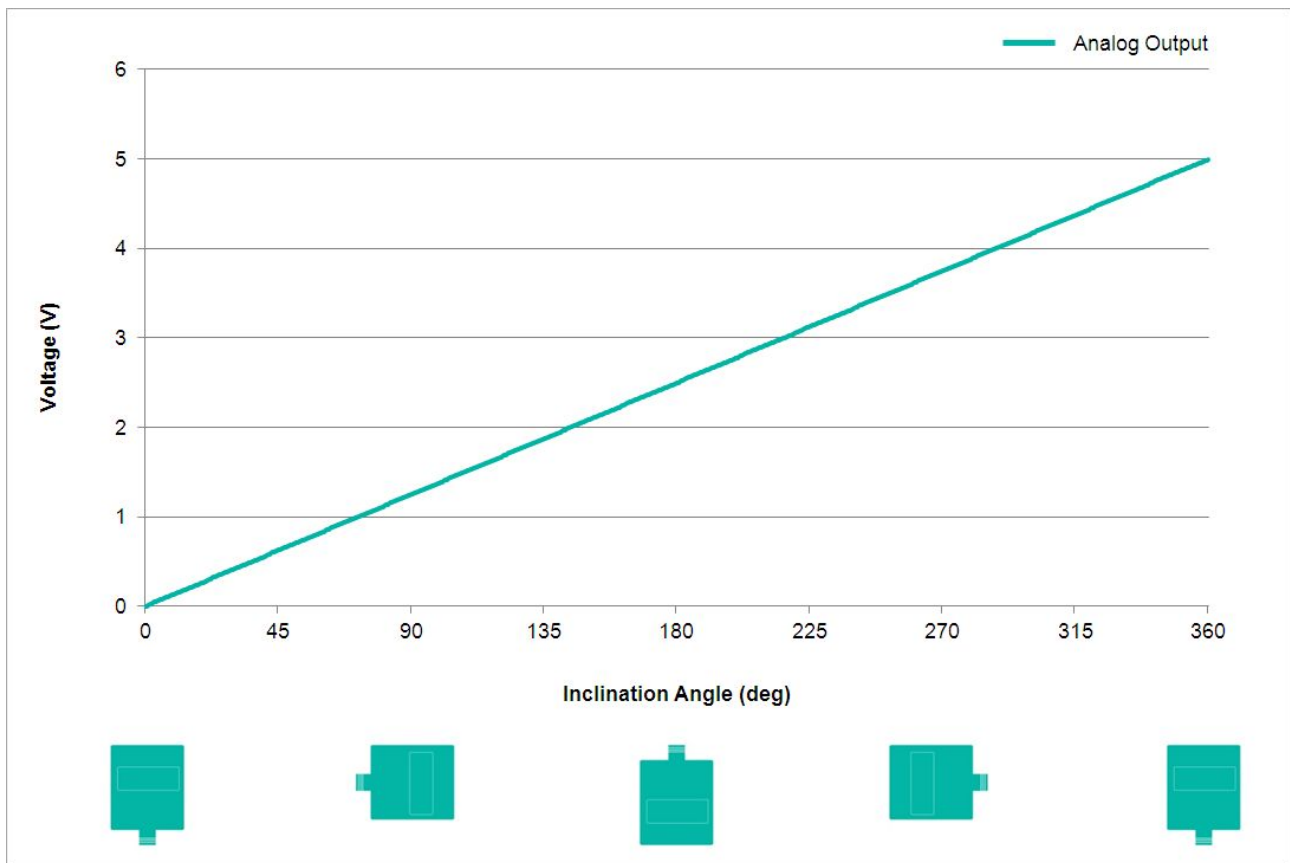
Vibration Resistance 1.5 mm (10 Hz - 58 Hz) & ≤ 20 g (58 Hz to 2000 Hz)

Mechanical Specifications

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

Interface

| | |
|---------------------------|--|
| Interface | Analog Voltage 0-5 V + RS232 |
| Teach In | Zero Positioning, Inverse Direction, Elevation Range Programming |
| Settling Time | 125 ms |
| Output Type | Voltage 0 - 5 V |
| Min Load Resistance | 5 k Ω |
| Transmission Rate | RS232: min. 1200 Baud; max. 115200 Baud |
| Default Transmission Rate | RS232: 9600 Baud |
| Linearity | $\pm 0.02\%$ |



Data Sheet

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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 |
|----------|------------|



Connection Plan

| SIGNAL | PIN NUMBER |
|------------------------|------------|
| Power Supply | 1 |
| GND | 4 |
| Z-Axis, Voltage Output | 5 |
| Set1 | 6 |
| Set2 | 8 |
| RxD | 2 |
| TxD | 3 |
| Not Connected | 7 |

Dimensional Drawing

[2D Drawing](#)



Accessories

Connectors & Cables

2m PUR Cable, 8pin, A-Coded, f
5m PUR Cable, 8pin, A-Coded, f
10m PUR Cable, 8pin, A-Coded, f
10m PUR Cable, 8pin, A-Coded, f
POS M12 8pin-A Female+5m PUR Cable
POS M12 8pin-A Female+2m PUR Cable
POS M12 8pin-A Female+10m PUR Cable
M12, 8pin A-Coded, Female

More

Displays

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

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