



### TILTIX Inclinometer

ACS-080-2-CA01-HK2-PM

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#### General Specifications

Application	2-Axes Position Monitoring and Leveling
Measurement Range	max. $\pm 80^\circ$
Absolute Accuracy	$\pm 0.10^\circ$ (within $\pm 60^\circ$ range)
Resolution	$0.01^\circ$

#### Electrical Specifications

Supply Voltage	10 - 30 VDC
Current Consumption	$\leq 65 \text{ mA @ } 10 \text{ V DC}$ , $\leq 60 \text{ mA @ } 24 \text{ V DC}$
EMC: Emitted Interference	DIN EN 61000-6-4
EMC: Noise Immunity	DIN EN 61000-6-2
Reverse Polarity Protection	Yes
Short Circuit Protection	Yes
MTTF	350 years @ $40^\circ \text{C}$

#### Environmental Specifications

Operating Temperature	$-40^\circ \text{C}$ ( $-40^\circ \text{F}$ ) - $+85^\circ \text{C}$ ( $+185^\circ \text{F}$ )
Storage Temperature	$-40^\circ \text{C}$ ( $-40^\circ \text{F}$ ) - $+85^\circ \text{C}$ ( $+185^\circ \text{F}$ )
Temperature Gradient	$0.004^\circ / \text{K}$
Protection Class	IP68/IP69K
Shock Resistance	$\leq 100 \text{ g}$ (half sine 6 ms, EN 60068-2-27)

Data Sheet

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Vibration Resistance	1.5 mm (10 Hz - 58 Hz) & $\leq$ 20 g (58 Hz to 2000 Hz)
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### Mechanical Specifications

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

### Interface

Interface	CANopen
Settling Time	150 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	Established
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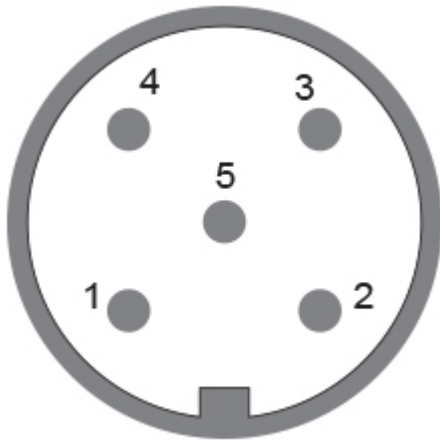
### Certification

Approval	CE + cULus
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### 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

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

2m PUR Cable, 5pin, A-Coded, f

10m PUR Cable, 5pin, A-Coded, f

POS M12 5pin-A Female+5m PUR Cable

POS M12 5pin-A Female+2m PUR Cable

POS M12 5pin-A Female+10m PUR Cable

10m PUR Cable, 5pin, A-Coded, f IP69K

M12, 5pin A-Coded, Female

More

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**Got questions? Need an individual solution? We are here to help!**

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