



## TILTIX Inclinometer

ACS-090-1-SC00-VK2-PM

POSITAL  
FRABA



### General Specifications

Application	1-Axis Position Monitoring and Leveling
Measurement Range	90°
Absolute Accuracy	±0.10°
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
MTTF	350 years @ 40 °C

### Environmental Specifications

Operating Temperature	- +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)

Data Sheet

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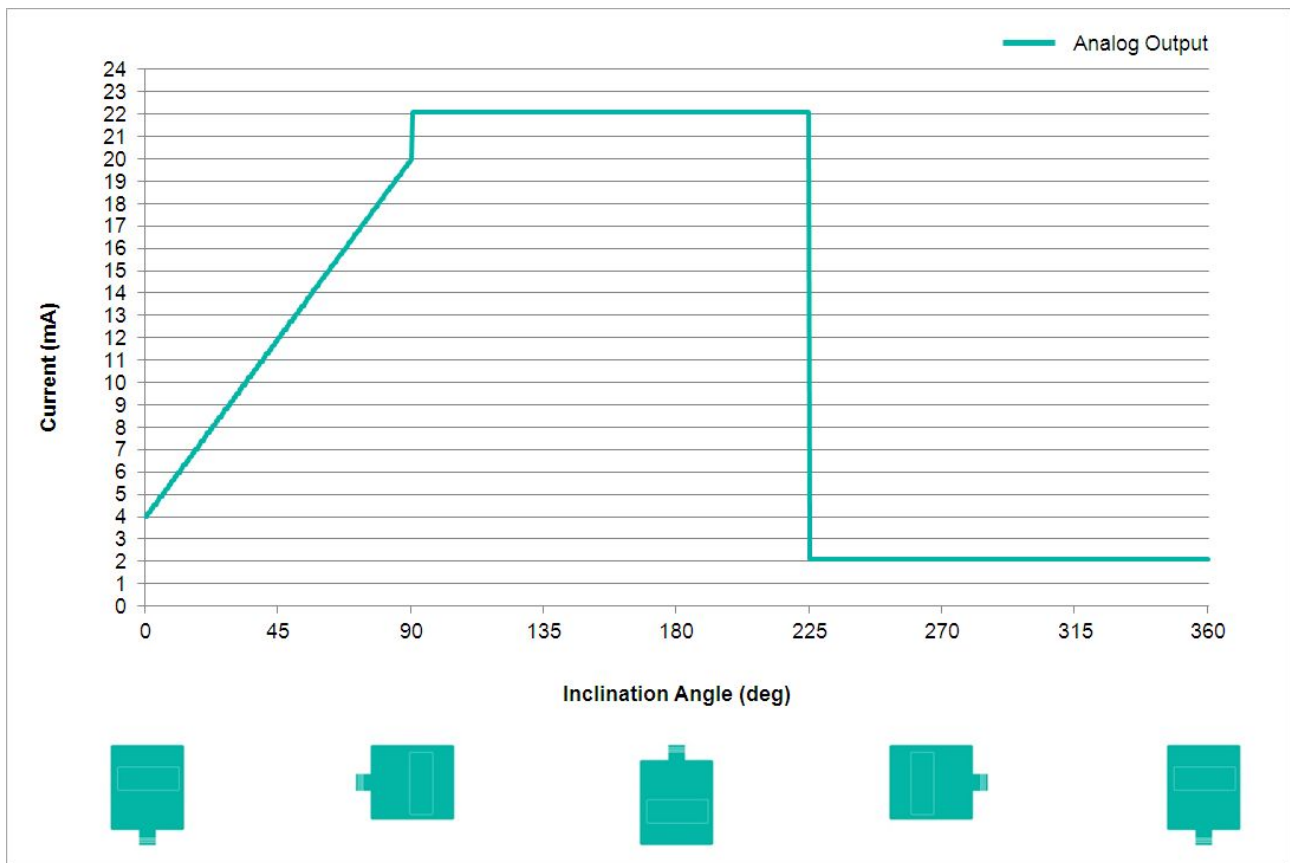
Vibration Resistance 1.5 mm (10 Hz - 58 Hz) &  $\leq 20$  g (58 Hz to 2000 Hz)

### Mechanical Specifications

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

### Interface

Interface	Analog Current 4 - 20 mA + RS232
Teach In	Zero Positioning, Inverse Direction, Elevation Range Programming
Settling Time	125 ms
Output Type	Current 4 - 20 mA
Max Load Resistance	270 $\Omega$ @ 10 V DC (500 $\Omega$ @ 15 V DC)
Transmission Rate	RS232: min. 1200 Baud; max. 115200 Baud
Default Transmission Rate	RS232: 9600 Baud
Linearity	$\pm 0.02\%$



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### Electrical Connection

Connection Type	Connector M12
Connector	M12, Male, 8 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	1
GND	4
Z-Axis, Current 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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