



## TILTIX Inclinometer

### ACS-080-2-C901-HK2-PM

This is an exiting product! It will be discontinued soon.



#### General Specifications

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

#### Electrical Specifications

Supply Voltage	10 - 30 VDC
Current Consumption	$\leq 65$ mA @ 10 V DC, $\leq 60$ 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
MTTF	350 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

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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)

### Interface

Interface	J1939
Settling Time	150 ms
Output Driver	Transceiver (ISO 11898), Galvanically Isolated by Opto-Coupl
Transmission Rate	125 KBaud, 250 KBaud, 500 KBaud
Default Transmission Rate	250 kBaud
Default Node ID	C0h
Default PGN	PGN 61459 (in Accordance with SAE)

### Electrical Connection

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

### Product Life Cycle

Product Life Cycle	Exiting
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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

Data Sheet  
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### [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

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

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