



TILTIX Inclinator

ACS-080-2-C901-HK2-PN

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 $\pm 60^\circ$ range) |
| Resolution | 0.01° |

Electrical Specifications

| | |
|-----------------------------|--|
| Supply Voltage | 10 - 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 |
| 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 | $0.004^\circ / K$ |
| Protection Class | IP68/IP69K |

POSITAL

FRABA



| | |
|----------------------|--|
| 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 2 x M12 (m+f) |
| Connector 1 | M12, Male, 5 pin, a coded |
| Connector 2 | M12, Female, 5 pin, a coded |

Product Life Cycle

| | |
|--------------------|---------|
| Product Life Cycle | Exiting |
|--------------------|---------|

Certification

| | |
|----------|------------|
| Approval | CE + cULus |
|----------|------------|

Connection Plan

| SIGNAL | CONNECTOR | PIN NUMBER |
|--------------|-------------|------------|
| Power Supply | Connector 1 | 2 |
| GND | Connector 1 | 3 |
| CAN High | Connector 1 | 4 |
| CAN Low | Connector 1 | 5 |
| CAN GND | Connector 1 | 1 |
| Power Supply | Connector 2 | 2 |
| GND | Connector 2 | 3 |
| CAN High | Connector 2 | 4 |
| CAN Low | Connector 2 | 5 |
| CAN GND | Connector 2 | 1 |

Data Sheet

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Dimensional Drawing

[2D Drawing](#)

Accessories

Connectors & Cables

M12, 5pin A-Coded, Male

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

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

Angled M12, 5pin A-Coded, Female

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

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

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

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

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

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

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

M12, 5pin A-Coded, Female

More

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

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