



ACS-180-E-CA01-HK3-PM



Product Description

POSITAL TILTIX Pitch, Roll inclinometer: CANopen interface, Static / Accelerometer technology and IP68 / IP69K protection class.

GENERAL SPECIFICATIONS



Application	2-Axes Position Monitoring and Leveling
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Measurement Range	CANopen
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Accuracy (INL)	$\pm 0.10^\circ$
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Resolution	0.01°
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Cycle Time Base Sensor	500 μ s
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Device Orientation	Horizontal
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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



Min Temperature	-40 °C (-40 °F)
Max Temperature	+85 °C (+185 °F)
Storage Temperature	-40 °C (-40 °F) – +85 °C (+185 °F)
Temperature Gradient	0.004°/ K
Protection Class (Housing)	IP68/IP69K
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	Zinc
Potting Material	None
Weight	275 g (0.61 lb)

INTERFACE



Interface	CANopen
Settling Time	min 30 ms; default 200 ms (dependent on filter settings)
Output Driver	Transceiver (ISO 11898), Galvanically Isolated by Opto-Couplers
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 (5 pin)
Connector	M12, Male, 5 pin, a coded

PRODUCT LIFE CYCLE



Product Life Cycle	New
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CERTIFICATION



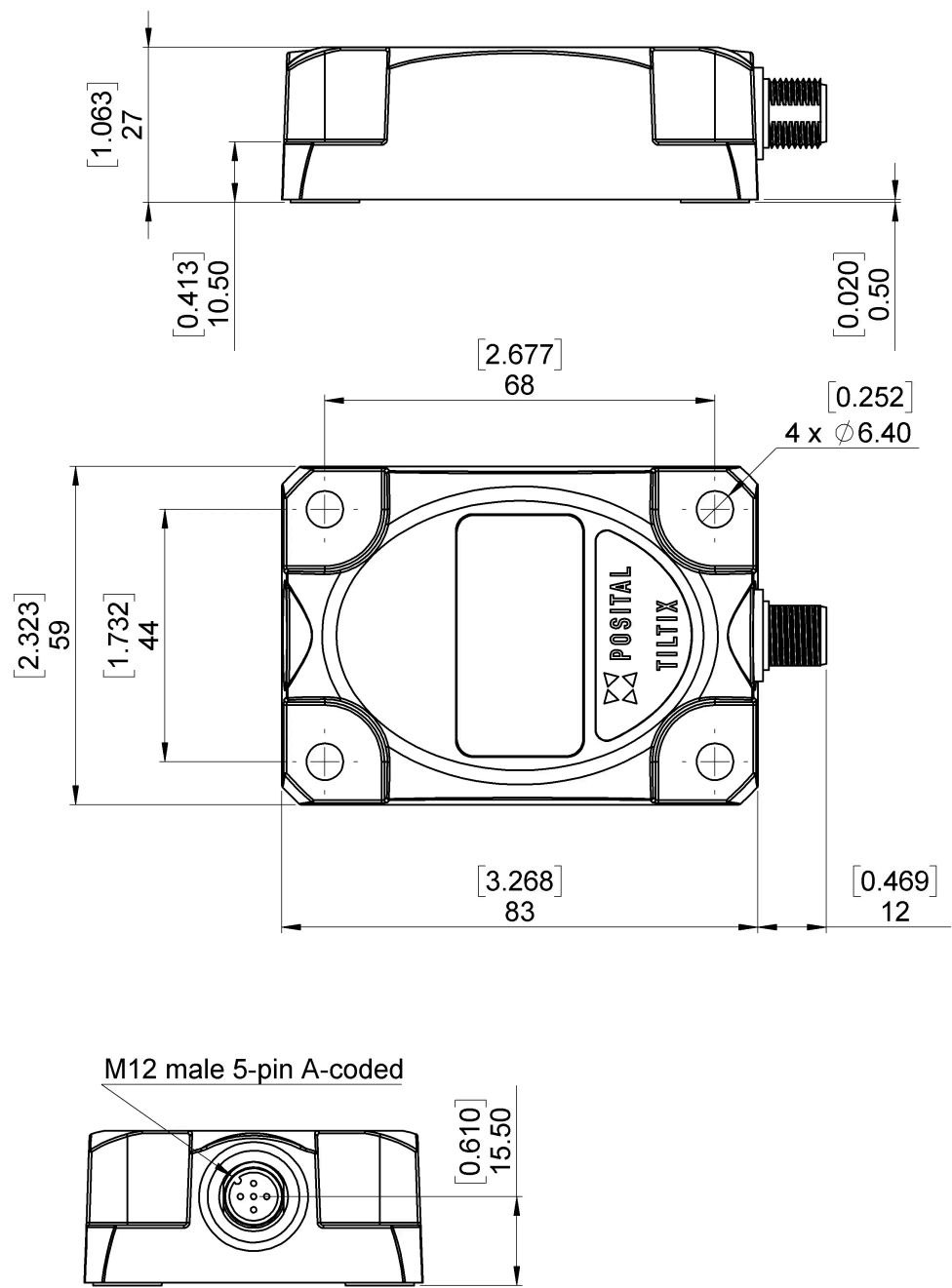
Approval

CE

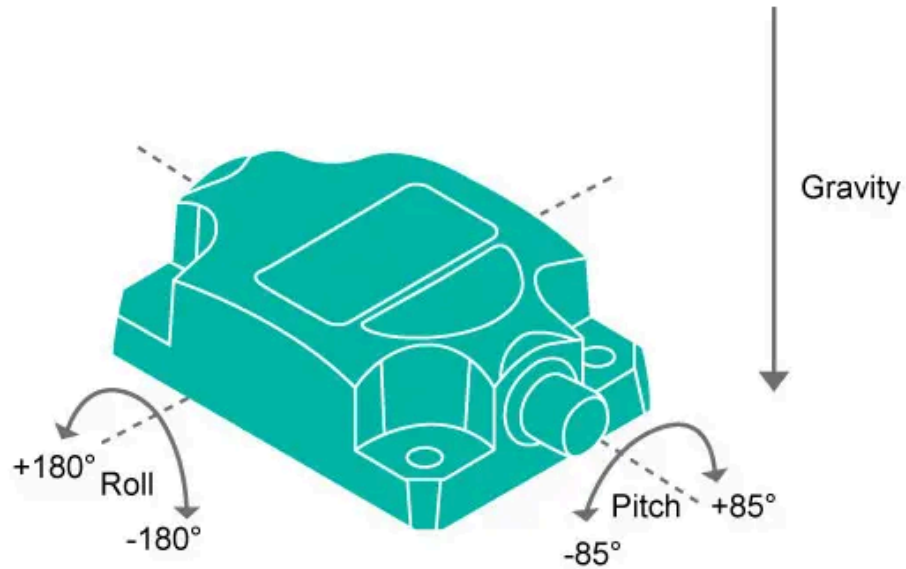
Connection Plan

Signal	Pin Number
Power Supply	2
GND	3
CAN High	4
CAN Low	5
CAN GND	1

Drawings



Device Orientation



Only for reference of the orientation of the product.

Online Datasheet

