

- Sturdy housing
- High accuracy of $\leq \pm 0,15^\circ$
- Communication via MODBUS RTU
- 2-axis with $\pm 80^\circ$ measuring range



This inclination sensor has a MODBUS RTU interface. With its sturdy housing and its high accuracy, it is ideally suited for applications in the fields of solar, wind or mobile equipment.

[illegible]

General specifications

Type	Inclination sensor, 2-axis
Time delay before availability	320 ms
Measurement range	± 80 °

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Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

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Technical Data

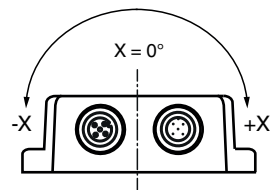
Absolute accuracy		$\leq \pm 0.15^\circ$ for measuring range $\leq \pm 60^\circ$ $\leq \pm 0.4^\circ$ for measuring range $\geq \pm 60^\circ$
Response delay		≤ 25 ms
Resolution		$\leq 0.01^\circ$
Temperature influence		$\leq 0.004^\circ/\text{K}$
Functional safety related parameters		
MTTF _d		900 a at 40 °C
Mission Time (T _M)		20 a
Diagnostic Coverage (DC)		0 %
Electrical specifications		
Operating voltage	U _B	4.5 ... 30 V DC
No-load supply current	I ₀	≤ 100 mA at 5 V DC ≤ 25 mA at 24 V DC
Interface		
Interface type		MODBUS RTU
Transfer rate		2.4 ... 115200 kBit/s , programmable in 7 steps , factory setting 19,2 kBit/s
Data format		even parity, 1 start bit, 1 stop bit, 8 data bits
Node ID		1 ... 247 , programmable , factory setting 127 decimal
Output driver		line driver RS485
Compliance with standards and directives		
Standard conformity		
Noise immunity		EN 61000-6-2
Emitted interference		EN 61000-6-4
Shock and impact resistance		DIN EN 60068-2-27, 100 g, 6 ms
Vibration resistance		DIN EN 60068-2-6, 20 g, 10 ... 2000 Hz
Ambient conditions		
Ambient temperature		-40 ... 85 °C (-40 ... 185 °F)
Storage temperature		-40 ... 85 °C (-40 ... 185 °F)
Mechanical specifications		
Connection type		5-pin, M12 x 1 connector , A-coded 5-pin, M12 x 1 socket , A-coded
Housing material		aluminum, corrosion-resistant
Degree of protection		IP68 / IP69
Mass		approx. 200 g

Accessories

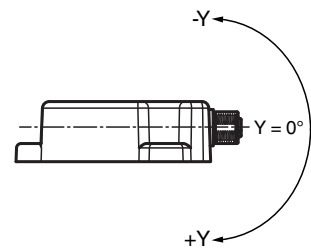
	ICZ-TR-CAN/DN-V15	Terminal resistor for DeviceNet, CANopen
	V15S-T-CAN/DN-V15	Y-Splitter, M12 socket on M12 connector/socket

Mounting

X-Orientation



Y-Orientation



Connection

Electrical connection

Signal	Bus Out, 5-pin, M12 x 1 socket	Bus In, 5-pin, M12 x 1 connector
n. c.	1	1
+U _b	2	2
GND	3	3
RS485 A +	4	4
RS485 B -	5	5
Pinout		