



# Inclination sensor INX360DH-F199-B16-V15

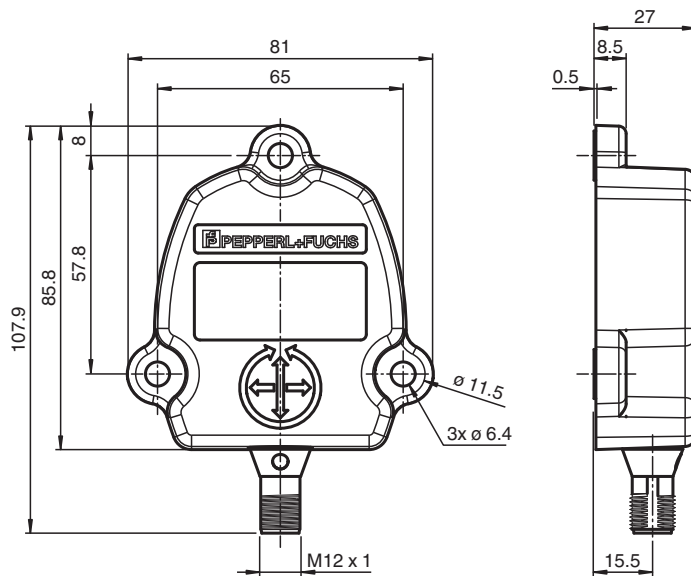
- Sturdy housing
- High accuracy of  $\leq \pm 0,15^\circ$
- CANopen interface
- 1-axis with  $360^\circ$  measuring range



## Function

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

## Dimensions



## Technical Data

### General specifications

Type	Inclination sensor, 1-axis
Time delay before availability	150 ms
Measurement range	0 ... 360 °
Absolute accuracy	$\leq \pm 0.15^\circ$

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

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## Technical Data

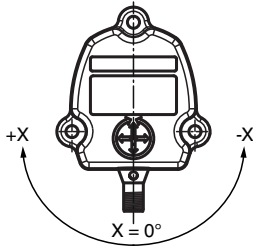
Response delay	≤ 25 ms	
Resolution	≤ 0.01 °	
Temperature influence	≤ 0.004 °/K	
<b>Functional safety related parameters</b>		
MTTF <sub>d</sub>	700 a at 40 °C	
Mission Time (T <sub>M</sub> )	20 a	
Diagnostic Coverage (DC)	0 %	
<b>Indicators/operating means</b>		
Status indicator	dual-LED, green/red	
<b>Electrical specifications</b>		
Operating voltage	U <sub>B</sub>	10 ... 30 V DC
No-load supply current	I <sub>0</sub>	≤ 65 mA at 10 V DC ≤ 60 mA at 24 V DC
<b>Interface</b>		
Interface type	CANopen	
Device profile	DS 410	
Transfer rate	20 ... 1000 kBit/s , programmable , factory setting 125 kBit/s	
Node ID	1 ... 127 , programmable , factory setting 1 decimal	
Output driver	transceiver according ISO 11898, galvanically isolated by means of photocouplers	
<b>Compliance with standards and directives</b>		
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	
<b>Ambient conditions</b>		
Ambient temperature	-40 ... 85 °C (-40 ... 185 °F)	
Storage temperature	-40 ... 85 °C (-40 ... 185 °F)	
<b>Mechanical specifications</b>		
Connection type	5-pin, M12 x 1 connector , A-coded	
Housing material	aluminum, corrosion-resistant	
Degree of protection	IP68 / IP69	
Mass	approx. 200 g	

## Accessories

	<b>V15S-T-CAN/DN-V15</b>	Y-Splitter, M12 socket on M12 connector/socket
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## Mounting

### X-Orientation



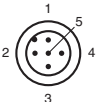
## Indication

**LED-indicator with dual color LED**

CAN Run (green)	State	Description
Flashing	Pre-Operational	Boot up message is sent, device configuration is possible, device is in CAN state „Pre-Operational“
Single flash	Stopped	The device is in CAN state „Stopped“
On	Operational	The device is in CAN state „Operational“
Off		No power supply
Err (red)	State	Description
Off	No error	The device is in operating mode
Flashing	Configuration fault	General configuration fault (such as wrong baudrate)
Single flash	Warning limit reached	At least one of the error counters of the CAN controller has reached or exceeded the warning level (too many error frames)
Double flash	Error control event	A guard event (NTM slave or NTM master) or a heartbeat event has occurred
On	Bus off	The CAN controller is in stae bus off. No communication possible anymore. Too many error frames in the network.

**Connection**

**Electrical connection**

Signal	5-pin, M12 x 1 connector
CAN GND	1
+V <sub>S</sub>	2
GND	3
CAN-High	4
CAN-Low	5
Pinout	

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