

CE

Model number

INY160DH-F199-B16-V15

Features

- Sturdy housing
- High accuracy of $\leq \pm 0,15^{\circ}$
- CANopen interface
- 2-axis with ±80° measuring range

Function description

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.

Technical Data
General specifications
Туре
Time delay before availability
Measurement range
Absolute accuracy
Response delay
Resolution
Temperature influence
Functional safety related parameters
MTTF _d
Mission Time (T _M)
Diagnostic Coverage (DC)
Indicators/operating means
Status indicator
Electrical specifications
Operating voltage U _B
No-load supply current I0
Interface
Interface type
Device profile
Transfer rate
Node ID
Output driver
Ambient conditions
Ambient temperature
Storage temperature
Mechanical specifications

Connection type Housing material Degree of protection Mass Compliance with standards and directives

Standard conformity Noise immunity Emitted interference Shock and impact resistance Vibration resistance Inclination sensor, 2-axis 150 ms $\pm 80^{\circ}$ $\leq \pm 0.15^{\circ}$ for measuring range $\geq \pm 60^{\circ}$ $\leq \pm 0.4^{\circ}$ for measuring range $\geq \pm 60^{\circ}$ $\leq 25 \text{ ms}$ $\leq 0.01^{\circ}$ $\leq 0.004^{\circ}/\text{K}$ 700 a at 40 °C

0 % dual-LED, green/red

10 ... 30 V DC ≤ 65 mA at 10 V DC ≤ 60 mA at 24 V DC

CANopen DS 410

20 a

20 ... 1000 kBit/s , programmable , factory setting 125 kBit/s 1 ... 127 , programmable , factory setting 1 decimal transceiver according ISO 11898, galvanically isolated by means of photocouplers

-40 ... 85 °C (-40 ... 185 °F) -40 ... 85 °C (-40 ... 185 °F)

5-pin, M12 x 1 connector , A-coded aluminum, corrosion-resistant IP68 / IP69 approx. 200 g

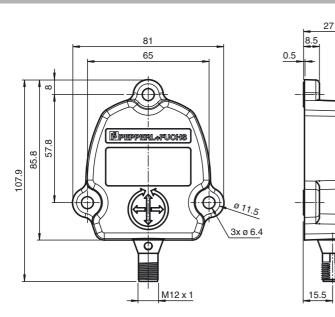
EN 61000-6-2 EN 61000-6-4 DIN EN 60068-2-27, 100 g, 6 ms DIN EN 60068-2-6, 20 g, 10 ... 2000 Hz

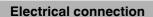
Refer to "General Notes Relating to Pepperl+Fuchs Product Information"

Pepperl+Fuchs Group www.pepperl-fuchs.com USA: +1 330 486 0001 fa-info@us.pepperl-fuchs.com Germany: +49 621 776 1111 fa-info@de.pepperl-fuchs.com Singapore: +65 6779 9091 fa-info@sg.pepperl-fuchs.com

INY160DH-F199-B16-V15

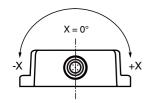
Dimensions



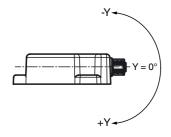


Signal	5-pin, M12 x 1 connector
CAN GND	1
+V _S	2
GND	3
CAN-High	4
CAN-Low	5
Pinout	2

X-Orientation



Y-Orientation



www.pepperl-fuchs.com

Accessories

V15-G-5M-PUR-CAN-V15-G DeviceNet/CANOpen bus cable, M12 to M12, PUR cable 5-pin

DeviceNet/CANOpen bus cable, M12 to

V15-G-10M-PUR-CAN-V15-G

V15-G-2M-PUR-CAN-V15-G

DeviceNet/CANOpen bus cable, M12 to M12, PUR cable 5-pin

V15S-T-CAN/DN-V15

Y distributor, M12 socket on M12 connector/socket

fa-info@us.pepperl-fuchs.com

Indicating elements

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 occured
On	Bus off	The CAN controller is in stae bus off. No communication possible anymore. Too
		many error frames in the network.

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

 Pepperl+Fuchs Group
 USA: +1 330 486 0001
 Gr

 www.pepperl-fuchs.com
 fa-info@us.pepperl-fuchs.com
 fa-info@us.pepperl-fuchs.com

Germany: +49 621 776 1111 fa-info@de.pepperl-fuchs.com