

Model number

INY030D-F99-2I2E2-V17

Features

- E1-Type approval ٠
- Measuring range -15° ... +15° ٠
- Analog output 4 mA ... 20 mA
- **Fixed evaluation limits**
- **High shock resistance** •
- Increased noise immunity 100 V/m

Electrical connection

Standard symbol/Connection:



222356 end.xml Date of edition: 2015-03-02 Release date: 2015-03-02 13:49

Pepperl+Fuchs Group

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General specifications Inclination sensor, 2-axis Туре Measurement range -15 ... 15 ≤ ± 0.2 ° Absolute accuracy Response delay ≤ 25 ms Resolution ≤ 0.01 $\leq \pm 0.02$ Repeat accuracy ≤ 0.004 °/K Temperature influence Functional safety related parameters $\mathsf{MTTF}_{\mathsf{d}}$ 304 a Mission Time (T_M) 20 a Diagnostic Coverage (DC) 0% Indicators/operating means Operation indicator Switching state Electrical specifications Operating voltage U_B No-load supply current I0 ≤ 25 mA Time delay before availability tv Switching output Output type Operating current IL Voltage drop ≤ 3 V Analog output Output type Load resistor Ambient conditions Ambient temperature Storage temperature Mechanical specifications Connection type Housing material PA Degree of protection Mass 240 g **Factory settings** Analog output (X) Analog output (Y) Switching output (X) Switching output (Y) Compliance with standards and directives Standard conformity Shock and impact resistance Standards Approvals and certificates UL approval CSA approval 10R-04 E1 Type approval **EMC Properties** Interference immunity in accordance with DIN ISO 11452-2: 100 V/m Frequency band 20 MHz up to 2 GHz Mains-borne interference in accordance with ISO 7637-2: 2b 3b Pulse 1 2a 3a 4 Severity level Ш Ш Ш ш ш Ш С Failure criterion С А А С А EN 61000-4-2: CD: 8 kV / AD: 15 kV Severity level IV IV EN 61000-4-3: 30 V/m (80...2500 MHz) Severity level IV EN 61000-4-4: 2 kV Severity level ш EN 61000-4-6: 10 V (0.01...80 MHz) Severity level ш EN 55011: Klasse A

Technical Data

LED, green 2 yellow LEDs: Switching status (each output) 10 ... 30 V DC ≤ 200 ms 2 switch outputs PNP, NO , reverse polarity protected , short-circuit protected \leq 100 mA 2 current outputs 4 ... 20 mA (one output for each axis) $0 ... 200 \Omega$ at $U_{B} = 10 ... 18 V$ 0 ... 500 Ω at U_B = 18 ... 30 V -40 ... 85 °C (-40 ... 185 °F) -40 ... 85 °C (-40 ... 185 °F) 8-pin, M12 x 1 connector IP68 / IP69K -15 ° ... 15 ° -15 ° ... 15 ° -15 ° ... 15 ° -15 ° ... 15 ° 100 g according to DIN EN 60068-2-27 EN 60947-5-2:2007 IEC 60947-5-2:2007

cULus Listed, Class 2 Power Source cCSAus Listed, General Purpose, Class 2 Power Source

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Dimensions





i L

Sensor Orientation

In the default setting the zero position of the sensor is reached, when the sensor is mounted on a horizontal plane and electrical connection faces sidewards.

Mounting of the sensor

Sensors from the -F99 series consist of a sensor module and accompanying cast aluminum housing. Select a horizontal flat surface with minimum dimensions of 70 mm x 50 mm to mount the sensor. Mount the sensor as follows:



- Loosen the central screw under the sensor connection. 1
- Slide back the clamping element until you are able to remove the sensor module from the housing. Remove the sensor module from the housing 2.
- 3.
- 4. Position the housing at the required mounting location and secure using four countersunk screws. Make
- sure that the heads of the screws do not protrude. Place the sensor module in the housing. 5.
- Slide the clamping element flush into the housing. Check that the sensor element is seated correctly. 6.

7. Finally tighten the central screw. The sensor is now mounted correctly.

Pinout



Wire colors

1 2 3 4 5 6 7 8	WH BN GN YE GY PK BU BD	(white) (brown) (green) (yellow) (gray) (pink) (blue) (red)
8	RD	(red)

Accessories

V17-G-2M-PUR

Female cordset, M12, 8-pin, shielded, PUR cable

V17-G-5M-PUR

Female cordset, M12, 8-pin, shielded, PUR cable

V17-G-10M-PUR

Female cordset, M12, 8-pin, shielded, PUR cable

V17-G-10M-PVC-ABG

Female cordset, M12, 8-pin, shielded, PVC cable

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