





Model number

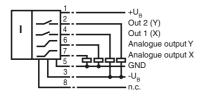
INY060D-F99-2I2E2-V17

Features

- Analog output 4 mA ... 20 mA
- Fixed evaluation limits
- · High shock resistance
- · Increased noise immunity 100 V/m
- Measuring range -30° ... +30°

Electrical connection

Standard symbol/Connection:



Technical Data

General	specifications
Type	

Type	Inclination sensor, 2-axis	
Measurement range	-30 30 °	
Absolute accuracy	≤ ± 0.2 °	
Response delay	≤ 25 ms	
Resolution	≤ 0.02 °	
Repeat accuracy	≤ ± 0.04 °	
Temperature influence	≤ 0.004 °/K	
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Functional safety related parameters

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MTTF _d	304 a
Mission Time (T _M)	20 a
Diagnostic Coverage (DC)	0 %

Indicators/operating means

Operation indicator LED, green

Switching state 2 yellow LEDs: Switching status (each output)

Electrical specifications

Operating voltage U_B 10 ... 30 V DC No-load supply current I_0 ≤ 25 mA Time delay before availability t_v ≤ 200 ms

Switching output

Output type 2 switch outputs PNP, NO , reverse polarity protected , short-circuit protected

IP68 / IP69K

240 g

Operating current I_L ≤ 100 mA

Voltage drop ≤ 3 V

Analog output

Output type 2 current outputs 4 ... 20 mA (one output for each axis)
Load resistor 0 ... 200 Ω at U_B = 10 ... 18 V 0 ... 500 Ω at U_B = 18 ... 30 V

Ambient conditions

Ambient temperature -40 ... 85 °C (-40 ... 185 °F) Storage temperature -40 ... 85 °C (-40 ... 185 °F)

Mechanical specifications

Connection type

Housing material

8-pin, M12 x 1 connector
PA

Degree of protection Mass

 Factory settings

 Analog output (X)
 -30 ° ... 30 °

 Analog output (Y)
 -30 ° ... 30 °

 Switching output (X)
 -30 ° ... 30 °

 Switching output (Y)
 -30 ° ... 30 °

Compliance with standards and

directives

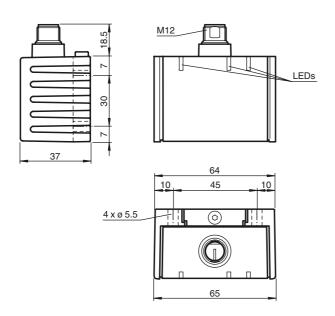
Standard conformity
Shock and impact resistance 100 g according to DIN EN 60068-2-27

Standards EN 60947-5-2:2007 IEC 60947-5-2:2007

Approvals and certificates

CSA approval cCSAus Listed, General Purpose, Class 2 Power Source

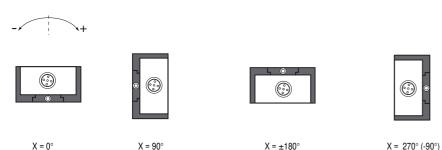
Dimensions



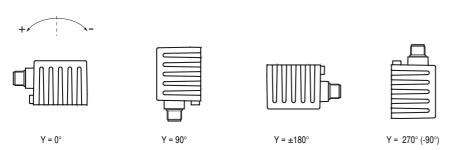
Sensor Orientation

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.

X Orientation



Y Orientation



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:







Pinout



Wire colors

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

- Loosen the central screw under the sensor connection.

- Slide back the clamping element until you are able to remove the sensor module from the housing.

 Remove the sensor module from the housing

 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.

 Slide the clamping element flush into the housing. Check that the sensor element is seated correctly.

 Finally tighten the central screw.

The sensor is now mounted correctly.