Dimensions

Push buttons

LEDs

Zero position Ø 10 Ø 5.2

26

110

10.3 ± 0.3

76.5

30

Ø 41.5

40

Direction of rotation
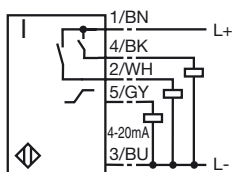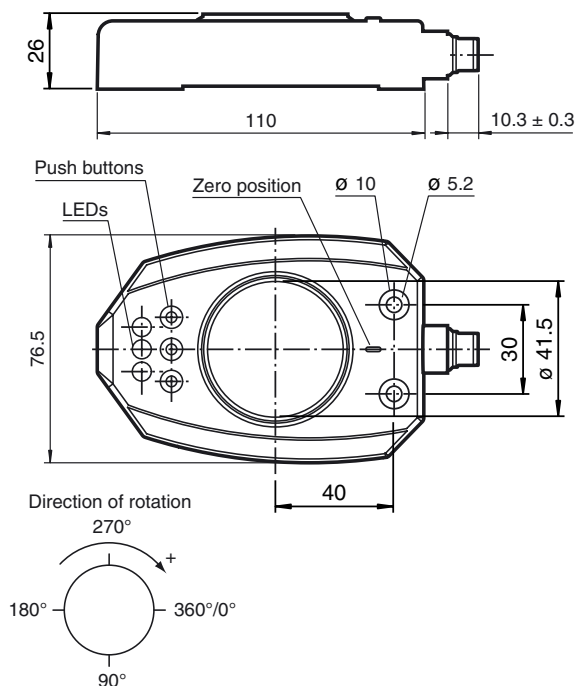

270°

180°

360°/0°

90°

+

Order Code

PMI360D-F130-IE8-V15-Y205400

Features

- Measuring range 0 ... 360°
- Analogue output 4 mA ... 20 mA
- Option of parameterizing signaling zone, position and width

Technical Data

General specifications	
Installation	not embeddable
Measuring range	360°
Rotational speed	≤ 100 min^{-1}
Nominal ratings	
Operating voltage U_B	18 ... 30 V
Reverse polarity protection	protected against reverse polarity
Repeat accuracy	0.5°
Resolution	0.4°
Temperature drift	1.5° (-25 °C ... 70 °C)
No-load supply current I_0	≤ 45 mA
Operating voltage display	LED green
Switching output	
Output type	2 switch outputs pnp, NO , protected against reverse polarity , short-circuit proof
Operating current I_L	≤ 100 mA
Voltage drop	≤ 3 V
Short-circuit protection	pulsing
Analogue output	
Output type	1 current output: 4 ... 20 mA
Linearity error	≤ 1.2 °
Load resistor	≤ 400 Ω
Ambient conditions	
Ambient temperature	-25 ... 70 °C (248 ... 343 K)
Mechanical specifications	
Connection type	connector M12 x 1, 5-pin
Housing material	PBT
Shaft diameter	≤ 27.5 mm Steel
Protection degree	IP67
Mass	180 g

Electrical Connection

1/BN
L+
4/BK
2/WH
5/GY
4-20mA
3/BU
L-

Release date: 2010-01-12 11:45   Issue date: 2010-01-12   205400_ENG.xml

Description of Sensor Functions

This Sensor provides functions, which are different from the series standards!
Note:
The basic parts of the standard devices instruction manual is also valid for this sensor. It is supplemented or partly replaced by the description below.

The Sensor provides 2 switch outputs. For each output the width and the position of a switching window can be programmed.
Each output can be programmed fully independent from the other. In case of a programmed switching window, which exceeds 360° (multi-turn), only the angular range of the last incomplete revolution will be saved as the resulting switching window.

Programming the Switching Window

Note:
A constantly lit green LED indicates the sensor's operational status.

Programming the Switching Window S1

1. Press the programming button S1 for 2 s (yellow LED S1 flashes)
2. Place the target at the desired start point of the switching window
3. Press the programming button S1 briefly (yellow LED S1 goes on briefly and then flashes again)
4. Place the target at the desired end point of the switching window
5. Press the programming button S1 briefly (yellow LED S1 goes on as confirmation). The sensor returns to normal operation.

Programming the Switching Window S2

1. Press the programming button S2 for 2 s (yellow LED S2 flashes)
2. Place the target at the desired start point of the switching window
3. Press the programming button S2 briefly (yellow LED S2 goes on briefly and then flashes again)
4. Place the target at the desired end point of the switching window
5. Press the programming button S2 briefly (yellow LED S2 goes on as confirmation). The sensor returns to normal operation.

Characteristic Curves/Additional Information

dimensions of the target object:

a = 8
b ≥ 23

t ≥ 2
d = 1 - 2

ø 41.5
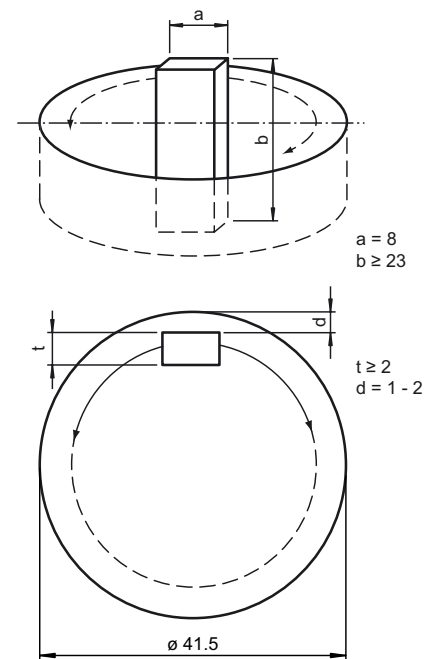
Accessories

BT-F130-A
Activator

V15-G-2M-PVC
Cable connector

V15-W-2M-PVC
Cable connector