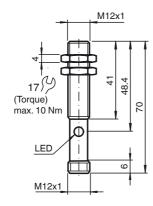


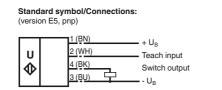


PEPPERL+FUCHS

Dimensions



Electrical Connection



Core colours in accordance with EN 60947-5-2.

Pinout



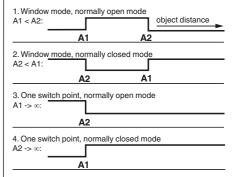
Wire colors in accordance with EN 60947-5-2

1	BN	(brown)
2	WH	(white)
3	BU	(blue)
4	BK	(black)

PEPPERL+FUCHS

Additional Information

Programmable output modes



5. A1 -> ∞, A2 -> ∞: Object presence detection mode Object detected: Switch output closed No object detected: Switch output open

Accessories

UB-PROG2 Programming unit

BF 5-30

Universal mounting bracket for cylindrical sensors with a diameter of 5 ... 30 mm

BF 12 Mounting flange, 12 mm

BF 12-F Mounting flange with dead stop, 12 mm

V1-G-2M-PVC Female cordset, M12, 4-pin, PVC cable

V1-W-2M-PUR Female cordset, M12, 4-pin, PUR cable

UVW90-M12 Ultrasonic -deflector

Adjusting the switching points

The ultrasonic sensor features a switch output with two teachable switching points. These are set by applying the supply voltage $-U_B$ or $+U_B$ to the TEACH-IN input. The supply voltage must be applied to the TEACH-IN input for at least 1 s. LEDs indicate whether the sensor has recognised the target during the TEACH-IN procedure. Switching point A1 is taught with $-U_B$, A2 with $+U_B$.

Five different output functions can be set

- 1. Window mode, normally-open function
- 2. Window mode, normally-closed function
- 3. one switching point, normally-open function
- 4. one switching point, normally-closed function
- 5. Detection of object presence

TEACH-IN window mode, normally-open function

- Set target to near switching point
- TEACH-IN switching point A1 with -UB
- Set target to far switching point
- TEACH-IN switching point A2 with +U_B

TEACH-IN window mode, normally-closed function

- Set target to near switching point
- TEACH-IN switching point A2 with +U_B
- Set target to far switching point
- TEACH-IN switching point A1 with -UB

TEACH-IN switching point, normally-open function

- Set target to near switching point
- TEACH-IN switching point A2 with +U_B
- Cover sensor with hand or remove all objects from sensing range
- TEACH-IN switching point A1 with -UB

TEACH-IN switching point, normally-closed function

- Set target to near switching point
- TEACH-IN switching point A1 with -U_B
- Cover sensor with hand or remove all objects from sensing range
- TEACH-IN switching point A2 with $+ U_{\text{B}}$

TEACH-IN detection of objects presence

- Cover sensor with hand or remove all objects from sensing range
- TEACH-IN switching point A1 with -UB
- TEACH-IN switching point A2 with +UB

LED Displays

Displays in dependence on operating mode	Red LED	Yellow LED
TEACH-IN switching point:		
Object detected	off	flashes
No object detected	flashes	off
Object uncertain (TEACH-IN invalid)	On	off
Normal operation	off	Switching state
Fault	on	Previous state

Installation conditions

If the sensor is installed at places, where the environment temperature can fall below 0 °C, for the sensors fixation, one of the mounting flanges BF 12, BF 12-F or BF 5-30 must be used. In case of direct mounting of the sensor in a through hole, it has to be fixed at the middle of the housing thread.

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

PEPPERL+FUCHS

3

188174_eng.xml Date of issue: 2017-07-12 Release date: 2017-07-12 08:57

Release date: 2017-07-12 08:57 Date of issue: 2017-07-12 188174_eng.xml

