

Curve 2: flat surface 10 mm x 10 mm Curve 3: round bar, Ø 25 mm

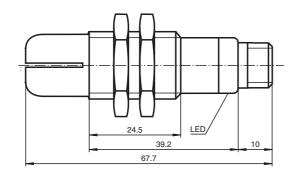
X

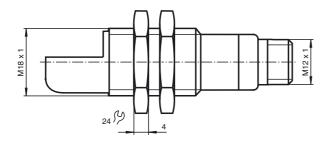


PEPPERL+FUCHS

UB300-18GM40A-E5-V1

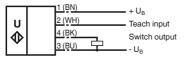
## Dimensions





## **Electrical Connection**

Standard symbol/Connections: (version E5, pnp)



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

#### Pinout



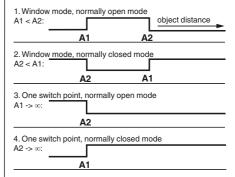
Wire colors in accordance with EN 60947-5-2

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

# 

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#### Programmable output modes



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

#### Accessories

# UB-PROG2

Programming unit

#### **OMH-04**

Mounting aid for round steel ø 12 mm or sheet 1.5 mm ... 3 mm

# BF 18

Mounting flange, 18 mm

#### BF 18-F

Mounting flange with dead stop, 18 mm

#### BF 5-30

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

# V1-G-2M-PVC

Female cordset, M12, 4-pin, PVC cable

#### V1-W-2M-PUR

Female cordset, M12, 4-pin, PUR cable

#### 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  $+ \mathrm{U}_\mathrm{B}$
- 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<sub>B</sub>
- 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 -UB
- Cover sensor with hand or remove all objects from sensing range
- TEACH-IN switching point A2 with +UB

# **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



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