

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

Pepperl+Fuchs Group www.pepperl-fuchs.com

Curve 3: round bar, Ø 25 mm

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UB300-18GM40A-E4-V1

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#### Dimensions





#### **Electrical Connection**

Standard symbol/Connections: (version E4, npn)



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)	

# **Additional Information**

#### Programmable output modes



5. A1 ->  $\infty$ , A2 ->  $\infty$ : 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 +UB

#### 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 -U\_B

#### 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

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