# UB800-18GM40A-E5-V1-Y70109109





# Dimensions

24.5 39.2 10 67.7



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

Pepperl+Fuchs Group www.pepperl-fuchs.com

70109109\_eng.xml

Date of issue: 2019-12-02

Release date: 2019-12-02 21:24

USA: +1 330 486 0001 fa-info@us.pepperl-fuchs.com

Germany: +49 621 776 1111 fa-info@de.pepperl-fuchs.com

76 1111 Singapore ichs.com fa-info@sg.pe

## **Electrical Connection**

Standard symbol/Connections: (version E5, pnp)



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

+ U<sub>B</sub>

- U<sub>B</sub>

Teach input

Switch output

#### Pinout

Wire colors in accordance with EN 60947-5-2

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

### 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 -U<sub>B</sub>
- Set target to far switching point
- TEACH-IN switching point A2 with +U<sub>B</sub>

#### TEACH-IN window mode, normally-closed function

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

www.pepperl-fuchs.com

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

**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

Germany: +49 621 776 1111 fa-info@us.pepperl-fuchs.com fa-info@de.pepperl-fuchs.com

Singapore: +65 6779 9091 fa-info@sg.pepperl-fuchs.con

- TEACH-IN switching point A2 with  $+U_B$ 

# **TEACH-IN** detection of objects presence

- Cover sensor with hand or remove all objects from sensing range
- TEACH-IN switching point A1 with -U\_B
- 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

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

 Pepperl+Fuchs Group
 USA: +1 330 486 0001
 Gr

 www.pepperl-fuchs.com
 fa-info@us.pepperl-fuchs.com
 fa-info@us.pepperl-fuchs.com