UB800-18GM40A-U-V1-Y70109110



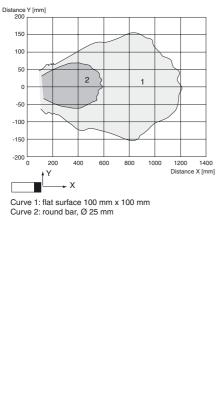
Preset, customized range limits •

Diagrams

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Characteristic response curve



EN 60947-5-2:2007+A1:2012 IEC 60947-5-2:2007 + A1:2012 EN 60947-5-7:2003 IEC 60947-5-7:2003

Approvals and certificates CCC approval

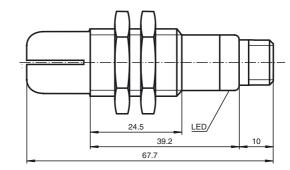
Compliance with standards and

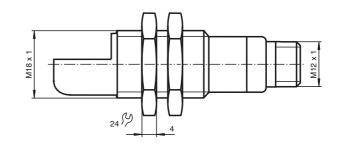
Standard conformity Standards

Dimensions

directives

CCC approval / marking not required for products rated ≤36 V





Date of issue: 2019-12-02 Release date: 2019-12-02 21:24

70109110_eng.xml

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

Pepperl+Fuchs Group www.pepperl-fuchs.com

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

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

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

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Programming the analog output mode

A2

A1

object range

Additional Information

A1

A2

A1 -> ∞, A2 -> ∞: Detection of object presence

Rising ramp A1 < A2:

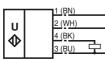
Falling ramp

Object detected: 10 V No object detected: 0 V

A2 < A1:

Electrical Connection

Standard symbol/Connections: (version U)



Core colors in accordance with EN 60947-5-2

- + U_B

- U_B

Teach input

Analog 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 evaluation limits

The ultrasonic sensor features an analogue output with two teachable evaluation limits. 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. The lower evaluation limit A1 is taught with $-U_B$, A2 with $+U_B$.

Two different output functions can be set:

- 1. Analogue value increases with rising distance to object (rising ramp)
- 2. Analogue value falls with rising distance to object (falling ramp)

TEACH-IN rising ramp (A2 > A1)

- Position object at lower evaluation limit
- TEACH-IN lower limit A1 with UB
- Position object at upper evaluation limit
- TEACH-IN upper limit A2 with + U_B

TEACH-IN falling ramp (A1 > A2):

- Position object at lower evaluation limit
- TEACH-IN lower limit A2 with + U_B
- Position object at upper evaluation limit

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- TEACH-IN upper limit A1 with - UB

Default setting

A1:	unusable area
A2:	nominal sensing range
Mode of operation:	rising ramp

LED Displays

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

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Displays in dependence on operating mode	Red LED	Yellow LED
TEACH-IN evaluation limit		
Object detected	off	flashes
No object detected	flashes	off
Object uncertain (TEACH-IN invalid)	on	off
Normal mode (evaluation range)	off	on
Fault	on	previous state

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