WICLOVOUIC



Operating Instructions

Ultrasonic one-way reflectiv barrier with one switched output

ews-15/M18/CD Set ews-25/M18/CD Set ews-100/M18/CD Set

Product Description

If an object interrupts the measuring track between two ews-.../M18/CD, one set as a transmitter and another set as a receiver, the switched output of the receiver is set.

Via the Control input, the response time and the output function of the switched output are changeable (Teach-in).

Two LEDs indicate operation and the state of the switched output of the receiver.

Safety Notes

- Read the operating instructions prior to start-up.
- Connection, installation and adjustment works may only be carried out by expert personnel.

safety component in accordance with the EU Machine Directive.

Proper use

ews ultrasonic sensors are used for non-contact detection of objects.

Installation

 Mount two sensors ews-.../M18/ CD at the installation site (see fig. 3). Maximum torque: 0,5 Nm

• Connect the connection cables to the M12 device plugs.

2 • 1 3 • 4	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	colour
1	+U _B	brown
3	-U _B	blue
4	D	black
2	Control	white

Fig. 1: Pin assignment with view onto sensor plug and colour coding of the microsonic connection cable.

Set one ews-.../M18/CD to function transmitter and one ews-.../ M18/CD as a receiver by correponding assignment of pin 2 (see fig. 1 and 2).

assignment pin 2	operation mode
+U _B	transmitter
not connected	receiver

Fig. 2: Selection of operation mode.

Start-Up

- Connect the power supply.
- Carry out the setting in accordance with the diagram.

Factory Setting

- Switched output on NOC.
- Filter not active.

Maintenance

microsonic sensors are maintenancefree. In case of excess caked-on dirt we recommend cleaning the white sensor surface

Notes

- In the normal operating mode, an illuminated yellow LED at the receiver signals the switched output is switched through.
- The objects to be detected have to be bigger than the detection area.
- The actual detect points depend on size and shape of the object.
- An ews-.../M18/CD Set consists of two ews-.../M18/CD.

< 1 mm



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Detection areas and minimum object sizes

Mounting distance Minimum object diameter 1) Sensortyp 50 mm ø 10 mm ews-15 150 mm ø 10 mm 100 mm ø 27 mm ews-25 200 mm ø 27 mm 400 mm ø 40 mm 625 mm ø 70 mm ews-100 1.250 mm ø 70 mm 2.500 mm ø 40 mm

¹⁾ The given minimum object diameter relates to a round bar that is moved vertically to transmitter and receiver





