



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.

 No 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	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

receiver

Fig. 2: Selection of operation mode.

not connected

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

WICLOVOUIC

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.



2014/30/EU

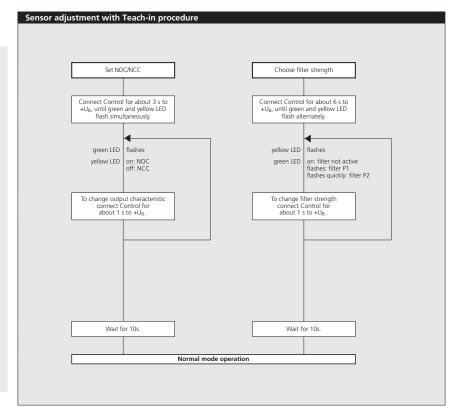
Contact

Sensor Partners BV

- James Wattlaan 155151 DP DrunenThe Netherlands
- \$\&\ +31 (0)416 37 82 39
- sensorpartners.com

Sensor Partners BVBA

- Z.1 Researchpark 310B-1731, ZellikBelgium
- 🕓 +32 (0)2 464 96 90
- sensorpartners.com



Sensortyp	Mounting distance	Minimum object diameter ¹⁾
ews-15	50 mm	ø 10 mm
	150 mm	ø 10 mm
ews-25	100 mm	ø 27 mm
	200 mm	ø 27 mm
	400 mm	ø 40 mm
ews-100	625 mm	ø 70 mm
	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 unit into the dection area.

