# microsonic



### Operating manual wms ultrasonic sensor

wms-25/RT/HV/M18 wms-340/RT wms-35/RT wms-600/RT wms-130/RT

### Product Description

The wms sensors require a connection to the customer's own control and signal evaluation equipment.

### Safety Notes

Order No. wms-25/RT/HV/M18

- Read the operating manual prior to start-up.
- Connection, installation and adjustments may only be carried out by qualified staff.

No safety component in accordance with the EU Machine Directive, use in the area of personal and machine protection not permitted.

The wins sensors indicate a **blind zone**, in which the distance cannot be measured. The **operating range** indicates the distance of the sensor that can be applied with normal reflectors with sufficient function reserve. When using good reflectors, such as a calm water surface, the sensor can also be used up to its **maximum range**. Objects that strongly absorb (e.g. plastic foam) or diffusely reflect sound (e.g. pebble stones) can also reduce the defined operating range.

wms ultrasonic sensors are used for

→ Mount the sensor at the place of

→ Connect a connection cable to the

→ Connect the sensor to your own

ment according to Fig. 1.

control and signal evaluation equip-

non-contact detection of objects.

## Proper Use

M12 device plug.

Installation

fitting.

#### Signal input »Transmitter«

A signal on the input makes the wms sensor emitting a sound pulse. For this a open collector output has to earth the »transmitter« signal input for the time given in the technical data table below.

## Signal output »Echo«

wms-340/RT

wms-600/RT

The signal output »Echo« subsequently transmitts all echo signals received depending on the duration as 1-bit values (echo yes/no).

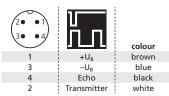
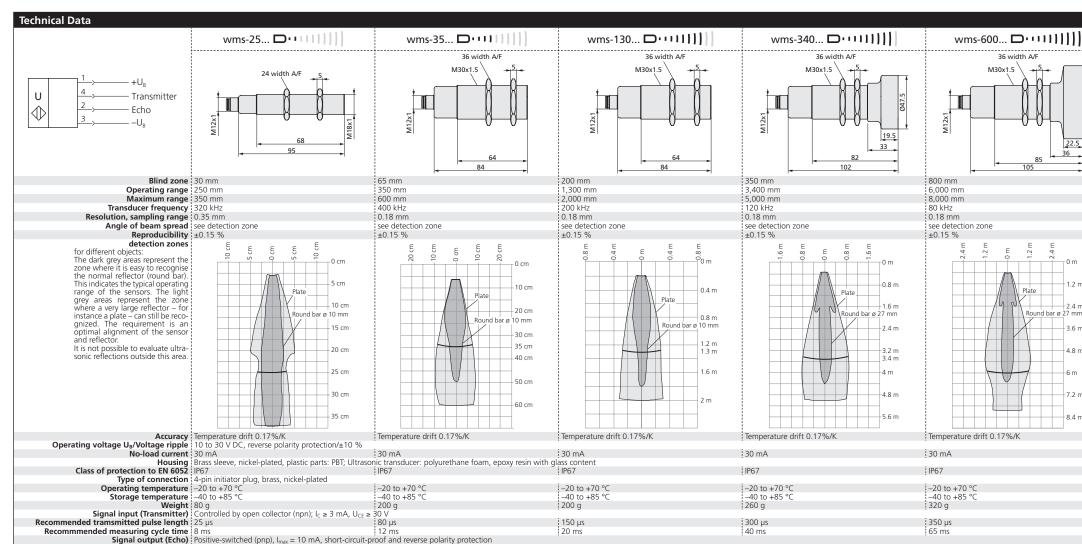


Fig. 1: Pin assignment with view onto the sensor plug and colour code of the connection cable





microsonic GmbH / Phoenixseestraße 7 / 44263 Dortmund / Germany / T +49 231 975151-0 / F +49 231 975151-51 / E info@microsonic.de / W microsonic.de / W micr

wms-130/RT

wms-35/RT