



Operating Instructions

bks-3/CDD

Ultrasonic edge sensor with two switched outputs

Product Description

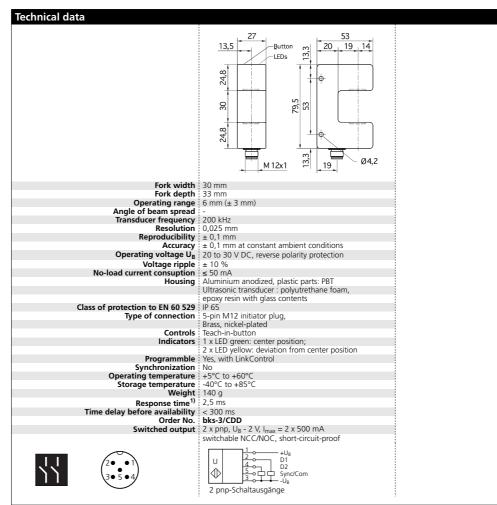
The bks ultrasonic edge sensor is a fork sensor for scanning the edges of sound-impermeable materials such as foil or paper.

The fork's lower leg is equipped with an ultrasonic sensor which cyclically emits short sound impulses, which are detected by the ultrasonic receiver accommodated in the upper fork leg. Material immersing into the fork covers this sound path and thus attenuates the receive signal in dependence of the coverage, which is evaluated by the internal electronics.

The switched outputs are set in dependence of the coverage degree.



Fig.1: Functional principle



- Via the teach-in button on the edge sensor's top, the zero position of the edge to be controlled is set.
- Three LEDs indicate the position of the web material inside the fork.

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.

Installation

■ Mount sensor at the installation site.

■ Connect a connection cable to the M12 device plug.

Start-Up

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

Maintenance

microsonic sensors are maintenancefree. With heavy dirt deposits, we recommend a cleaning of the white sensor surface.

Note

■ Both switched outputs are set if the edge of the web material is in the

zero position. If the coverage is less than 50 % D1 is reset, if the coverage is more than 50 % output D2 is reset.

■ The web material should be in the area of ± 5 mm around the center between the 7ultrasonic transmitter and receiver.



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