



Operating Instructions

bks-3/CIU bks-6/12/CIU

Ultrasonic edge sensor with one analogue output

Product Description

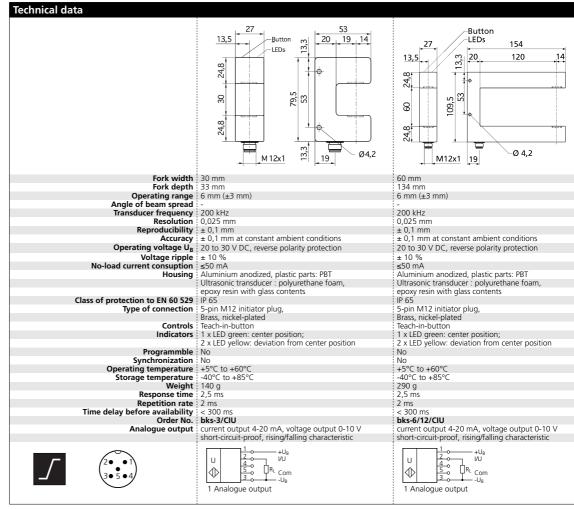
The bks ultrasonic edge sensor is a fork sensor for scanning the edges of sound-impermeable materials such as foil or paper.

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.

An analogue signal is output 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.
- Choosing between rising and falling output characteristic is possible.
- 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 the sensor at the installation site
- Connect a connection cable to the M12 device plug.

Factory setting

■ Analogue output on votage output

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

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



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