

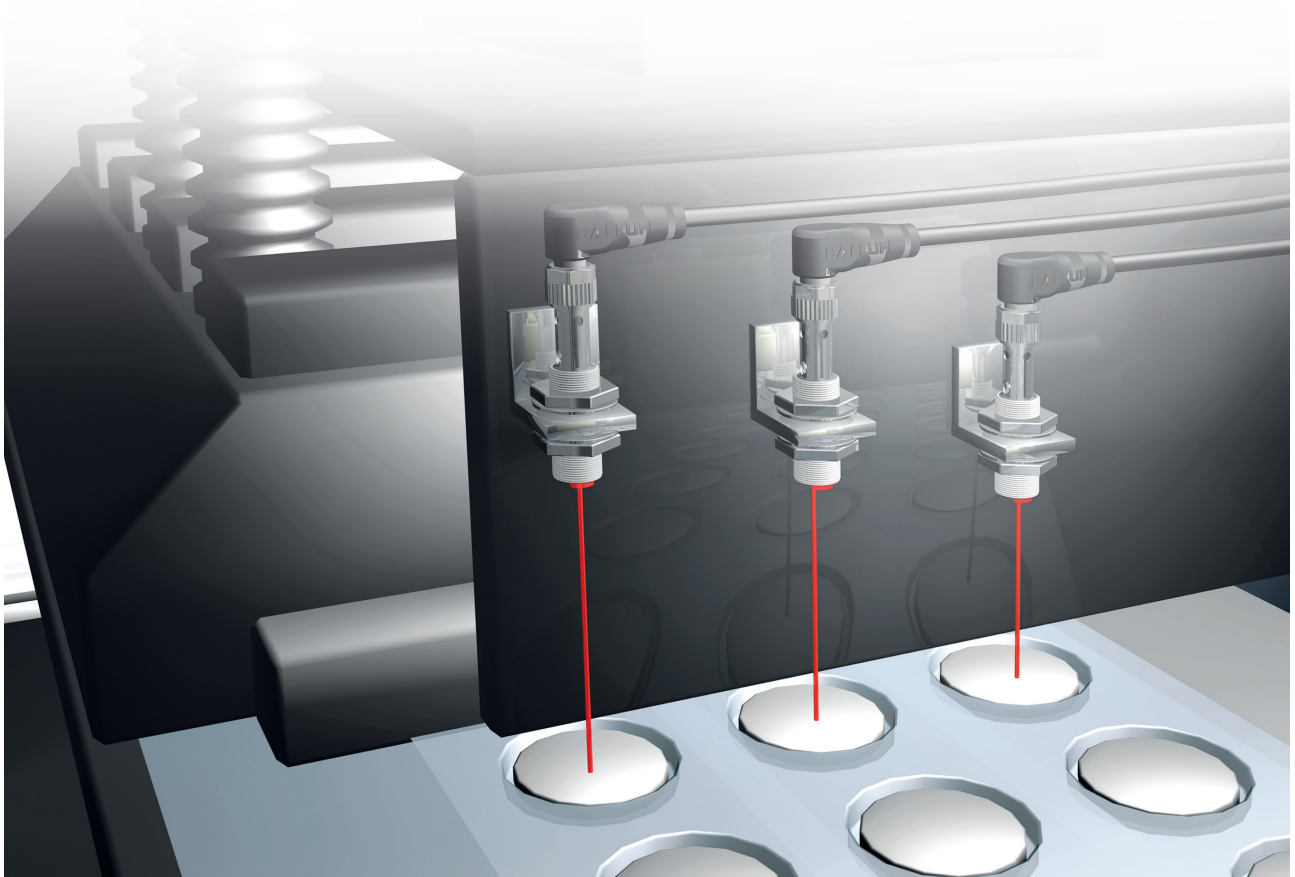
Precise object detection in a mini-housing

PHOTOELECTRIC SENSOR BOS 08E WITH BACKGROUND SUPPRESSION

Two configuration methods – this is the new background suppression of the BOS 08E sensor family. The built-in potentiometer allows you to conveniently and quickly set the range from 7 to 30 mm. The IO-Link version offers even more advantages such as setting the range, hysteresis, and switching modes. The smallest Balluff sensor with background suppression is now available for space restricted applications.

Features

- Focused bright light spot for easy setup
- Parameterization with IO-Link
- Rugged, IP67 stainless steel housing



DIFFUSE SENSOR
WITH BACKGROUND
SUPPRESSION



| PNP | BOS01H4 | BOS0247 | BOS01H0 | BOS0246 |
|---------------------------------------|---------------------|---------------------|------------------------------------------|------------------------------------------|
| Detection range | 7...30 mm | 7...30 mm | 7...30 mm | 7...30 mm |
| Interface | | IO-Link | | IO-Link |
| Light type | LED, red light | LED, red light | LED, red light | LED, red light |
| Supply voltage U _S | 10...30 V DC | 10...30 V DC | 10...30 V DC | 10...30 V DC |
| Switching type | Light switching | Adjustable | Light switching | Adjustable |
| Switching frequency f | 450 Hz | 500 Hz | 450 Hz | 500 Hz |
| Settings | Potentiometer 270° | Via IO-Link | Potentiometer 270° | Via IO-Link |
| Degree of protection as per IEC 60529 | IP67 | IP67 | IP67 | IP67 |
| Ambient temperature T _a | -5...+55 °C | -5...+55 °C | -5...+55 °C | -5...+55 °C |
| Material Housing | Stainless steel | Stainless steel | Stainless steel | Stainless steel |
| Material Optical surface | PMMA | PMMA | PMMA | PMMA |
| Connection | M8 connector, 3-pin | M8 connector, 3-pin | 0.2 m PUR cable with M8 connector, 3-pin | 0.2 m PUR cable with M8 connector, 3-pin |

IO-Link functions: operating distance and hysteresis adjustable, switching type and switching modes selectable, diagnostic functions



ACCESSORIES

| | BAM00A2 | BAM009U | | |
|---------------|---------------|---------------------------------------------|--|--|
| Description | Mounting cuff | Mounting brackets for sensors and clamps M8 | | |
| Hole diameter | Ø 8 mm | | | |
| Material | PA 6 | Anodized aluminum | | |

CONNECTOR



| | BCC02M8 | BCC02ML |
|------|-----------------------------------------------------------|--------------------------------------------------------------|
| Type | 2 m cable PUR (black) with M8 connector, 3-pin (straight) | 2 m cable PUR (black) with M8 connector, 3-pin (right-angle) |