

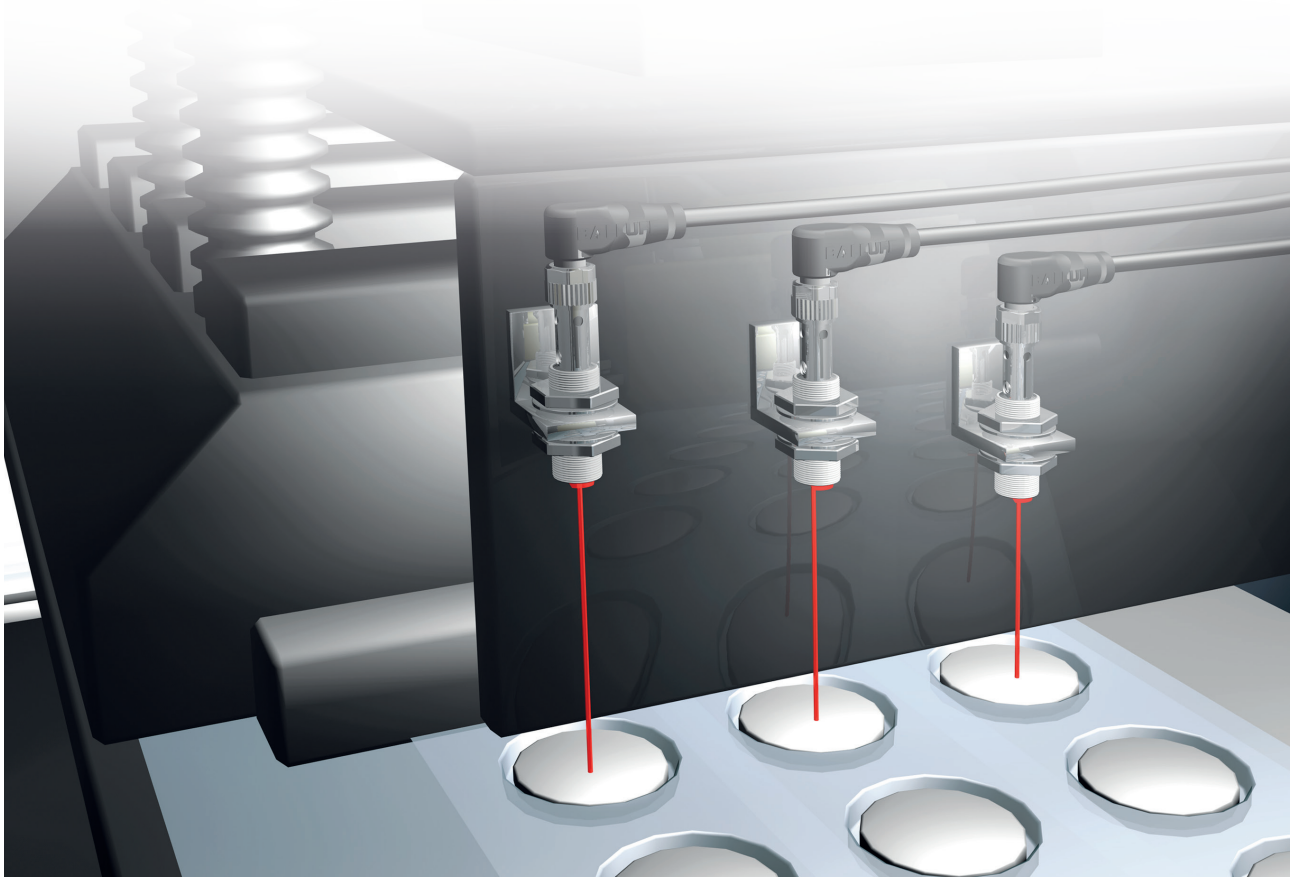
Photoelectric sensor BOS 08E with background suppression

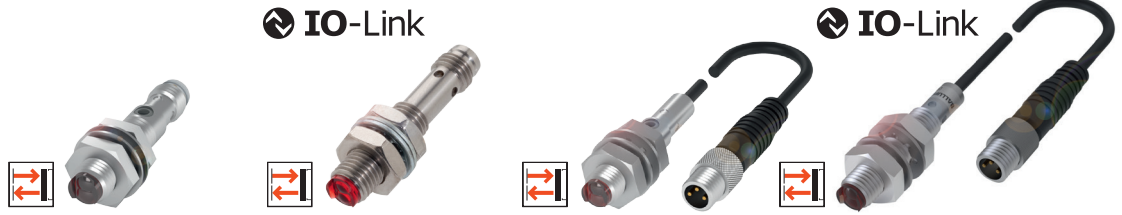
Precise object detection in a mini-housing

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



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.





Type	Diffuse sensor with background suppression	Diffuse sensor with background suppression	Diffuse sensor with background suppression	Diffuse sensor with background suppression
Detection range	7...30 mm	7...30 mm	7...30 mm	7...30 mm
Interface		IO-Link		IO-Link
PNP	BOS01H4	BOS0247	BOS01H0	BOS0246
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
Mate- rial	Housing: Stainless steel Optical surface: PMMA	Housing: Stainless steel Optical surface: PMMA	Housing: Stainless steel Optical surface: PMMA	Housing: Stainless steel Optical surface: 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

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



Connector

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