

Small and smart – even in small spaces

PHOTOELECTRIC MINI SENSORS WITH BACKGROUND SUPPRESSION

The BOS Q08M and BOS R01E series photoelectric mini sensors are used for reliable object detection in various application areas, especially where mounting space is at a premium.

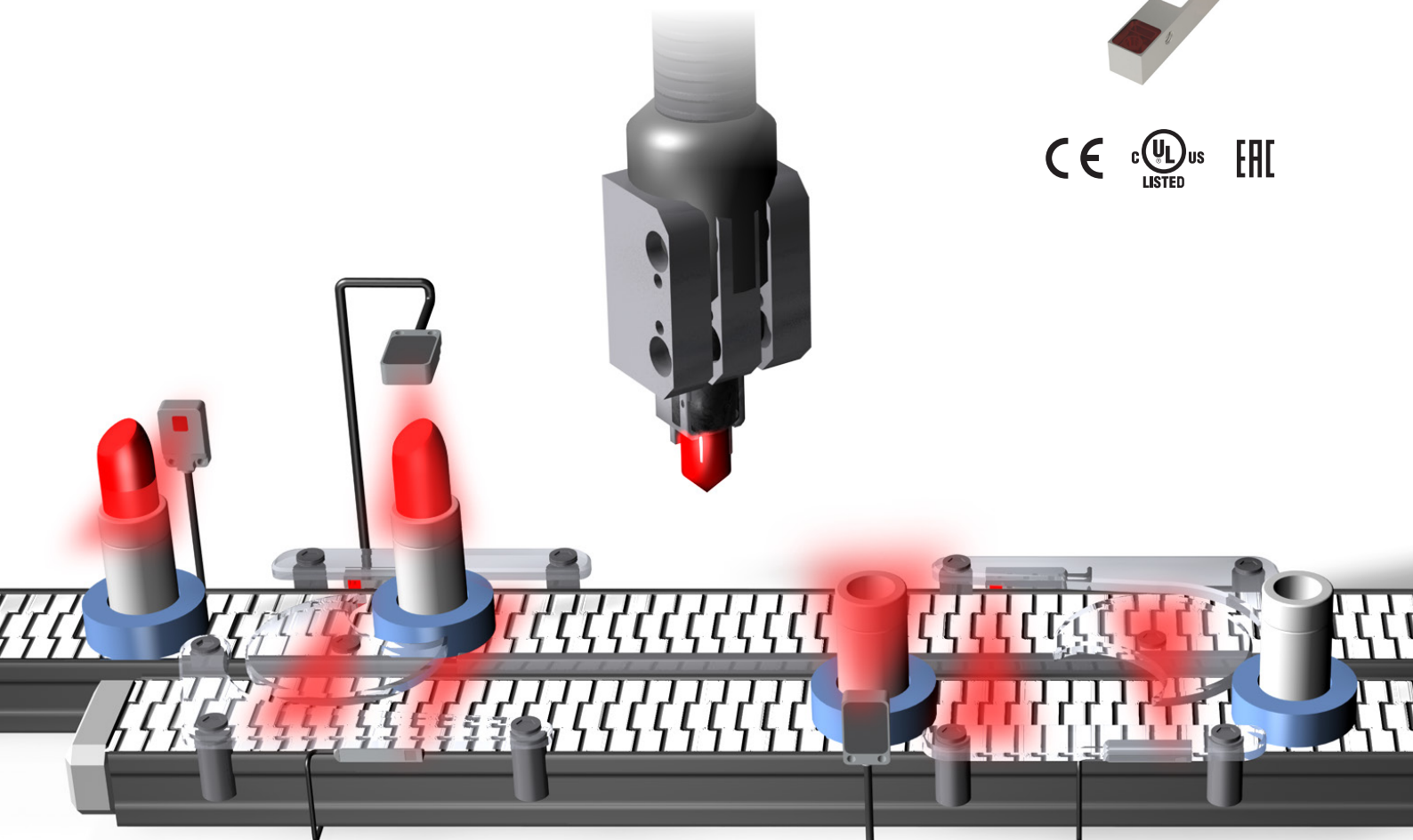
Through-beam, retroreflective and diffuse sensors are available. Now you can also order versions with high-performance background suppression. This allows you to reliably detect objects with differing surfaces.

The various models have side or front mounted optics for extreme flexibility. And the highly visible, clearly defined red light spot makes sensor alignment and startup easy.

The versions with a fixed range setting are ready to use as soon as they are installed. With IO-Link versions you can simply and precisely set the range and hysteresis, eliminating the need to adjust the sensor-object distance. In addition, these IO-Link sensors provide information such as diagnostics data and number of operating hours, providing true added value for modern production facilities.

Features

- Precise switching response thanks to small, bright light spot
- IO-Link versions allow for extensive configuration options
- BOS R01E – rugged, stainless steel housing and IP69K protection rating
- BOS Q08M – extremely compact for use in tight mounting spaces



PHOTOELECTRIC MINI SENSORS



Ecolab

	BOS0270	BOS0271	BOS0265
Series	BOS Q08M	BOS Q08M	BOS R01E
Dimension	8 × 8 × 59 mm	8 × 8 × 44 mm	20 × 32 × 9 mm
Adjustable range	10...30 mm	10...30 mm	50...100 mm
Operating mode	SIO and IO-Link	SIO and IO-Link	SIO and IO-Link
Switching output (SIO mode)	Configurable: – PNP/NPN/push pull – light-on/dark-on	Configurable: – PNP/NPN/push pull – light-on/dark-on	Configurable: – PNP/NPN/push pull – light-on/dark-on
Interface	IO-Link 1.1	IO-Link 1.1	IO-Link 1.1
Operating voltage	10...30 V DC	10...30 V DC	10...30 V DC
Light type, wave length	LED, red light, 650 nm	LED, red light, 650 nm	LED, red light, 650 nm
IP rating	IP67	IP67	IP69K (housing), IP67 (connector)
Ambient temperature	-5...+55 °C	-5...+55 °C	-5...+55 °C
Approval/conformity	CE, cULus, EAC	CE, cULus, EAC	CE, cULus, EAC, Ecolab
Housing material	Nickel-plated die-cast zinc	Nickel-plated die-cast zinc	Stainless steel 1.4404
Material sensing surface	PMMA	PMMA	PA
Connection	M8 connector, 3-pin	0.2 m PUR cable with M8 connector, 3-pin	0.2 m PUR cable with M8 connector, 3-pin

ACCESSORIES



	BAM01AU	BAM01YW	
Use	Holder for photoelectric sensors BOS Q08M	Mounting bracket for photoelectric sensors BOS Q08M, 2 adjustable axes	
Mounting	Bosch profile 10 mm slit		

CONNECTIVITY



	BCC03F8	BCC02R9	BCC02M8	BCC02ML
Connection	2 m PUR cable, M8 female, straight, 3-pole and M12 male, straight, 3-pole	2 m PUR cable, M8 female, straight, 3-pole and M8 male, straight, 3-pole	2 m PUR cable, M8 female, straight, 3-pole	2 m PUR cable, M8 female, angled, 3-pole

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