BALLUFF

High resolution and precise measurement at close range

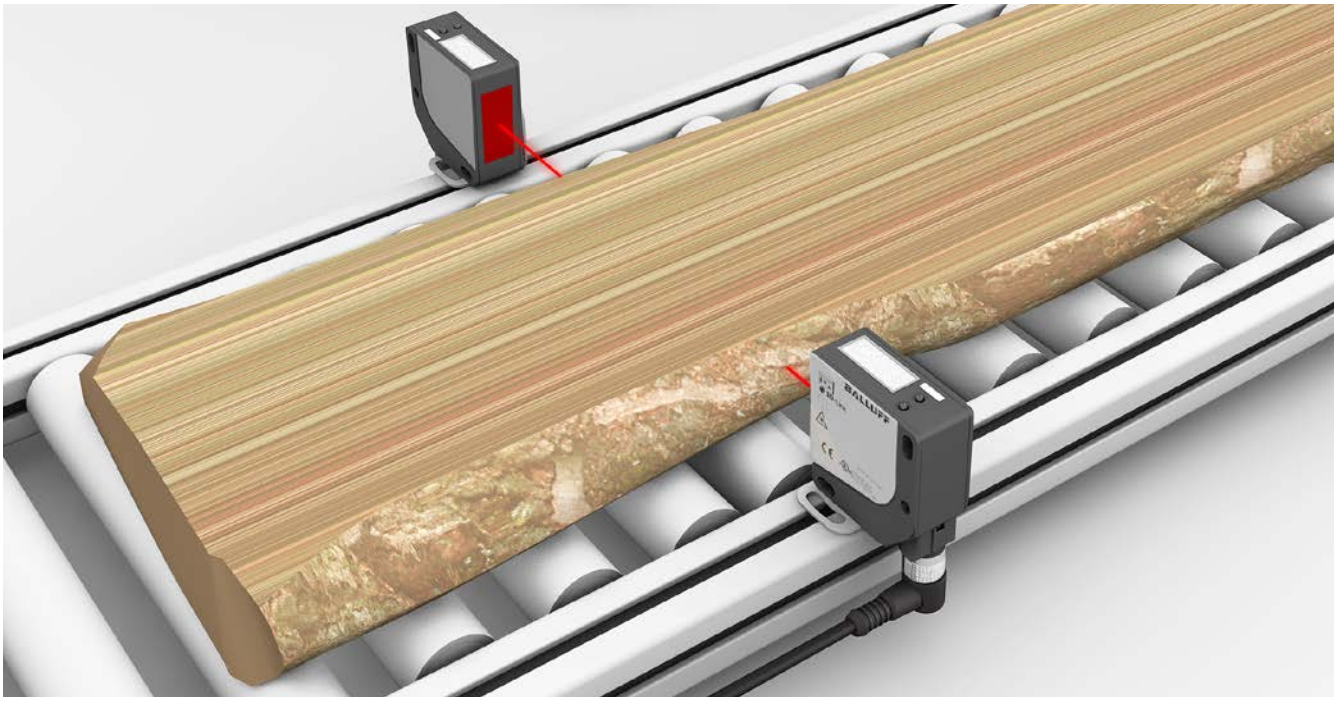
PHOTOELECTRIC DISTANCE SENSORS BOD 24K

Optical distance sensors in the BOD 24K product family combine precision and intelligence. You can use this family's high resolution and accuracy to solve difficult problems with ease. For example, fine positioning of robot arms or quality inspection of small components. The IO-Link interface simplifies startup. Extensive configuration options ensure that you are able to flexibly tailor the system to fit the application. Configuration can be accomplished either directly via IO-Link or from the built-in display. Integrated IO-Link diagnostic functions enable preventive maintenance to ensure high system availability. As an alternative to IO-Link you can use analog interfaces (voltage and current) as well as discrete switching outputs that can also be set up from the integrated display.

Features

- High accuracy with integrated intelligence for short measuring ranges
- Great flexibility through many configuration options via IO-Link or display
- Reduced downtime and more stable operation through online configuration, diagnostics, and condition information over IO-Link
- Simple, cost-saving installation and wiring with intuitive menu guidance
- Compact, rigid housing with IP67 protection





PHOTOELECTRIC
DISTANCE SENSORS
BOD 24K





IO-Link

Measuring range 50...100 mm Resolution 10 µm	BOD0021	BOD0022	BOD0023
Measuring range 50...650 mm Resolution 100 µm	BOD0024	BOD0025	BOD0026
Output	Analog, Voltage, 1...10 V, 2 Switching outputs (Normally open/Normally closed)	Analog, Current, 4...20 mA, 2 Switching outputs (Normally open/Normally closed)	IO-Link
Emitter, light type	Laser, Red light	Laser, Red light	Laser, Red light
Laser class IEC 60825-1	2	2	2
Supply voltage	18...30 V DC	18...30 V DC	18...30 V DC
No-load supply current	< 180 mA	< 180 mA	< 180 mA
Ambient temperature	–20...+50 °C	–20...+50 °C	–20...+50 °C
Dimensions	50 × 21 × 50 mm	50 × 21 × 50 mm	50 × 21 × 50 mm
Degree of protection IEC 60529	IP67	IP67	IP67
Conformity/Approval	CE, cULus	CE, cULus	CE, cULus
Connection	M12 Connector, 5 pin	M12 Connector, 5 pin	M12 Connector, 5 pin

CONNECTOR






	BCC098C	BCC08KP	BCC08FC	BCC0AT1
Type	M12 female straight, 5 wires, 5 m cable	M12 female straight, 5 wires, 5 m cable, shielded	M12 female right-angle, 5 wires, 5 m cable	M12 female right-angle, 5 wires, 5 m cable, shielded

ACCESSORIES



	BAM02ZA
Type	Mounting bracket, 30 × 46 × 96 mm, Mounting M4 screw

Doc. no. 941482 · Mat. no. 267782 ENNA · I18 · Subject to change.