

Precision laser sensor for absolute accuracy in distance measurement of objects

## BOD 21M LASER DISTANCE SENSOR WITH IO-LINK AND ADDITIONAL FEATURES

When you need precise measurement of object distance, our IO-Link distance sensor is the ideal choice. Whether you want to, for example, precisely determine the location of a component or simply need reliable stack height detection, it delivers absolute accuracy.

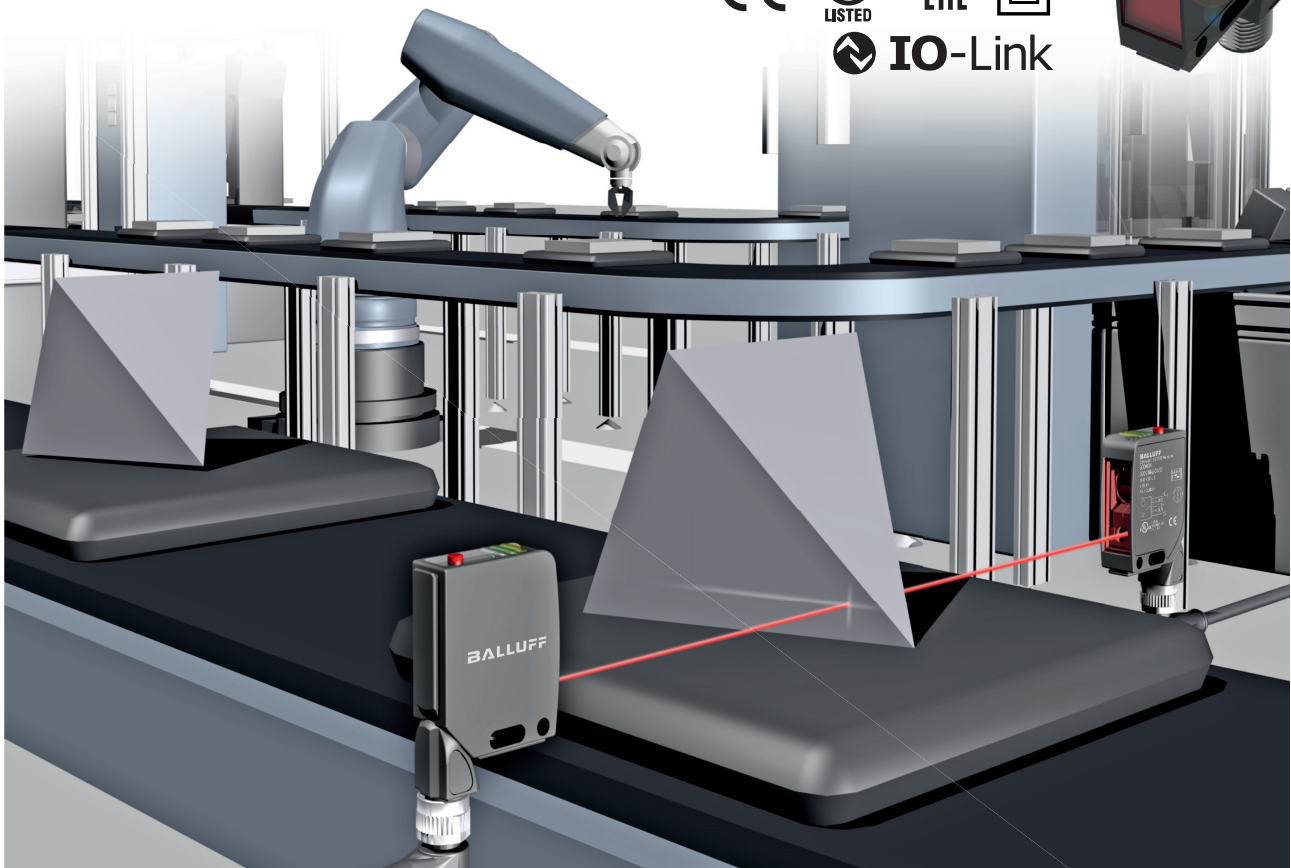
Its fine, clearly delineated laser beam lets you detect even the smallest objects with precision. You can also individually set the measuring range of the sensor, thanks to the analog output curve which can be adjusted to your application.

The sensor also offers a switching output which you can use as a limit switch. You can set it, for example, so that the sensor switches when there is no replenishment.

And setting the sensor is easy. Both the switching point and the output curve can be taught using a simple key. Installation is fast using a mounting bracket or dovetail clamp, which also speeds up commissioning.

### Features

- Various measuring modes (dark measurement, multiple measurement, transparent mode)
- Operating hours counter with counting and time functions
- Statistics recording
- Precise Class 1 laser (requires no additional protection measures)
- High resolution (10...100 µm)
- Metal housing, glass optics
- Reset input



PHOTOELECTRIC  
DISTANCE SENSORS



	BOD002L
Interface	IO-Link 1.1
Switching output	2 × PNP/NPN, NO/NC, push-pull (programmable)
Analog output	Current 4...20 mA, adjustable analog curve
Operating voltage	18...30 V DC
Range	30...200 mm
Setting teach button	Switching point and analog curve
IO-Link setting option	Operating mode SIO/IO-Link mode, teach-in switchpoint/window, principle of background assessment, switching output, switching function, hysteresis, time function, count function, data retention, various measuring modes (dark measurement, enhanced object detection mode, transparent object detection mode), basic statistics, emitter, key disable, factory setting (reset)
Function class, smart sensor	Identification, teach channel, binary data channel, variable process data, diagnostics
Light type	Laser red light
Laser class	1
Protection degree	IP67
Ambient temperature	-10...+70 °C
Housing material	Die-cast zinc, aluminum
Material sensing surface	Glass
Connection	M12 male, 4-pin, A-coded (rotatable)

ACCESSORIES



	BAM00TH	BAM00T9	
Description	Clamp holder, aluminum, 15.5 × 19 × 14 mm, sensors with dovetail clamp, mounting M4 screws	Mounting bracket, stainless steel, 20 × 50 × 26.5 mm, 2 adjustable axes, mounting with M4 and M5 screws	

CONNECTIVITY



	BCC032F		
Description	M12 female, straight, 5-pole, 4-wire, A-coded, PUR black, 2.00 m		