

With Long Range

PHOTOELECTRIC DISTANCE SENSORS BOD 37M

Reliably measure distance up to 20 meters – regardless of the target surface properties

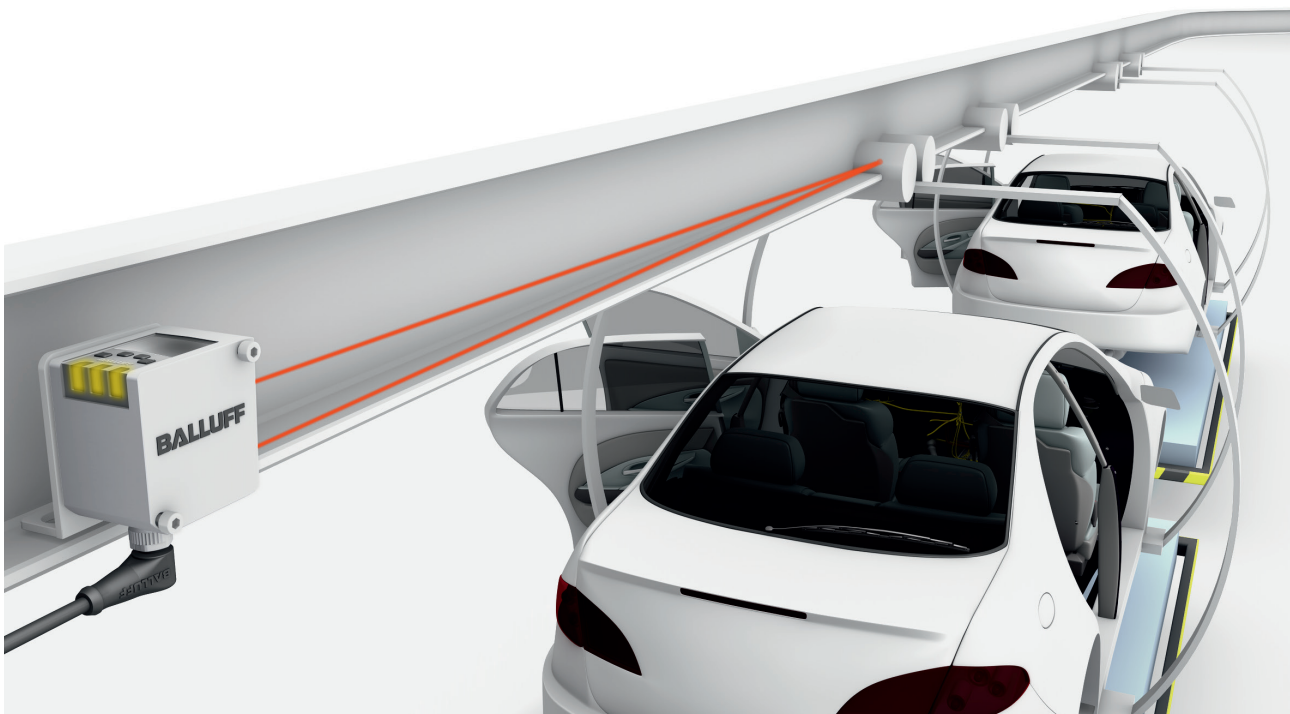
When highly precise measurements are required from long stand-off distances, for example high-bay storage applications, BOD 37M photoelectric distance sensors are the solution. Based on time-of-flight technology (TOF), BOD 37M enables stable measurements regardless of the surface finish of the target. These reliable sensors with front- and background suppression feature a scalable measuring range. A display and set-up buttons make them easy to operate. The compact, industrial grade housing is protected to IP67, and its compact size makes it simple to integrate where space is at a premium.

Features

- Highly precise even at long distances
- Stable measurements regardless of the target surface properties (Time-of-Flight technology)
- Front- and background suppression (window function)
- Scalable measuring range
- Rugged, compact IP67 housing
- Simple, intuitive operation with display and set-up buttons

Range of applications

- Warehousing
- Packaging and conveying
- Forklift trucks
- Automotive, e.g. positioning vehicle parts
- Metallurgy, e.g. positioning transport carts



BOD 37M
PHOTOELECTRIC DISTANCE SENSORS



Push-pull PNP/NPN, NO/NC	BOD001U	BOD001W	BOD001Y
Working range	200...10000 mm	200...10000 mm	200...20000 mm
Measuring range	10 m adjustable	10 m adjustable	20 m adjustable
Supply voltage U_B	19.2...28.8 V DC	19.2...28.8 V DC	19.2...28.8 V DC
Analog output	0.2...10 V DC	4...20 mA	0.2...10 V DC or 4...20 mA
Interface			RS485
Polarity reversal/short-circuit protected	Yes/yes	Yes/yes	Yes/yes
Settings	4 × Teach-in	4 × Teach-in	4 × Teach-in and display
Emitter, light type, wavelength	Laser, red light, 658 nm	Laser, red light, 658 nm	Laser, red light, 658 nm
Light spot diameter	Ø 15 mm at 8000 mm	Ø 15 mm at 8000 mm	Ø 15 mm at 10000 mm
Laser class per IEC 60825-1	2	2	2
Degree of protection per IEC 60529	IP67	IP67	IP67
Ambient temperature T_a	-15...+50 °C	-15...+50 °C	-15...+50 °C
Size	60 × 62.2 × 37 mm	60 × 62.2 × 37 mm	60 × 62.2 × 37 mm
Material, housing	Coated die-cast zinc	Coated die-cast zinc	Coated die-cast zinc
Material, optical surface	PMMA	PMMA	PMMA
Connection	M12 connector, 5-pin	M12 connector, 5-pin	M12 connector, 8-pin

CONNECTORS



	BCC08FE	BCC098C	BCC0994	BCC0995
Description	Connection cable 5-pin	Connection cable 5-pin	Connection cable 8-pin	Connection cable 8-pin
Length	2 m	5 m	2 m	5 m

ACCESSOIRES



	BAM02UY
Type	Mounting bracket, 118 × 2.5 × 75 mm, Mounting with screws