

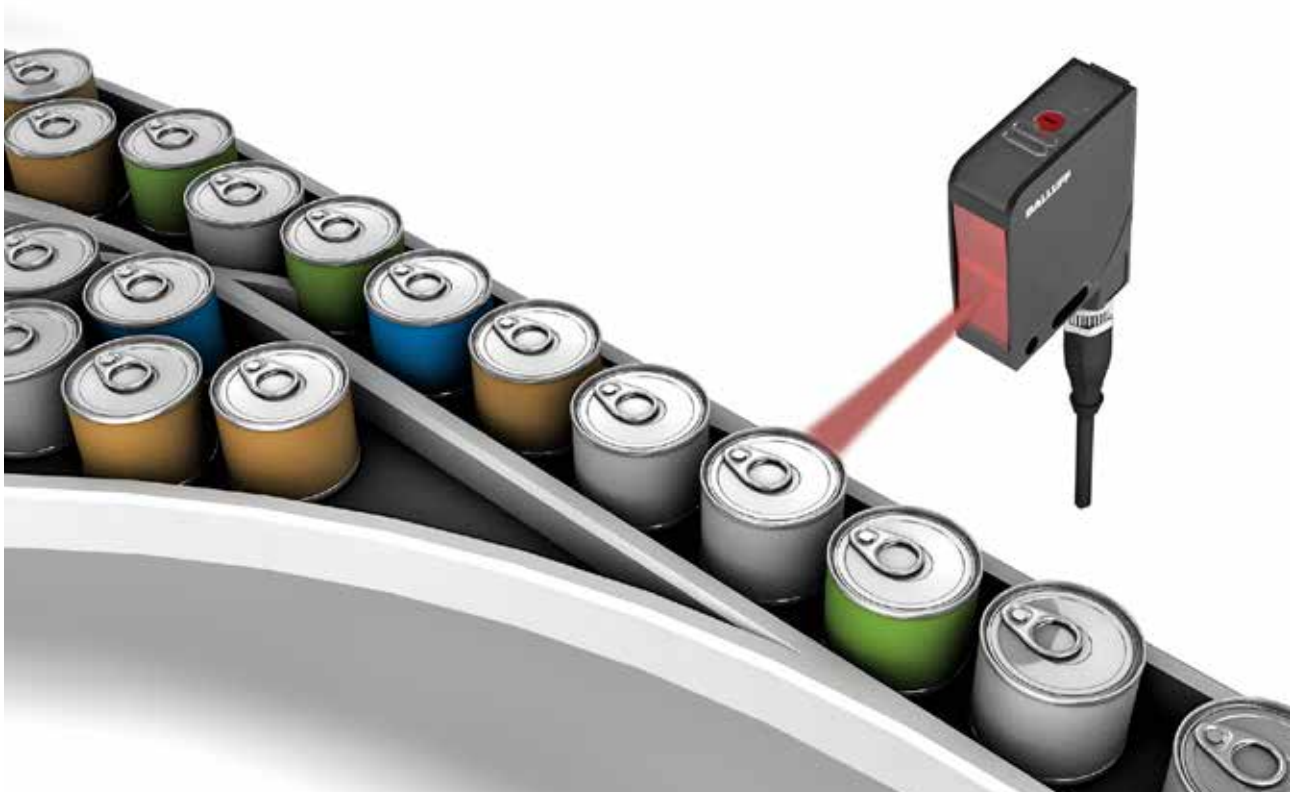
BOS 21M photoelectric sensor

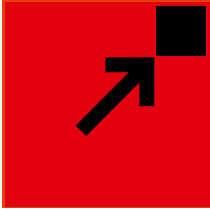
Robust background suppression – versatile use with red light or laser

- Long sensing range: versatile and flexible use
- Compact and robust metal housing for harsh environments
- Bright, clearly visible red light or laser light for easy alignment
- Precise adjustment by means of multiturn potentiometer
- Wide variety of accessories for easy installation



Compact and robust – the new sensors with background suppression from the BOS 21M family. The rugged metal housing, IP67 protection, ensures suitability for industrial use, even in rough environments. Available with laser or red light, the sensors solve a wide range of applications. The bright, powerful red light is suitable for reliable detection even of dark objects, e.g. in the packaging industry. The version with a fine, precise laser beam detects the smallest objects and openings with absolute reliability. The wide variety of accessories provides flexibility in mounting the sensors in any position required.





Type	Diffuse sensor with background suppression	Diffuse sensor with background suppression
Detection range	1...400 mm	1...250 mm
PNP NO/NC	BOS01Z8	BOS01Z9
Supply voltage U_B	10...30 V DC	10...30 V DC
No-load supply current I_0 max.	≤ 40 mA	≤ 40 mA
Switching type	Light on/dark on	Light on/dark on
Polarity reversal/short-circuit protected	Yes/Yes	Yes/Yes
Settings	10-turn potentiometer	10-turn potentiometer
Emitter, light type	LED, red light	Laser class I, Laser, red light
Wavelength	650 Nm	655 Nm
Output function indicator	Yellow LED	Yellow LED
Supply voltage indicator	Green LED	Green LED
Response time	1 ms	1 ms
Switching frequency f	0,5 kHz	0,5 kHz
Degree of protection as per IEC 60529	IP67	IP67
Ambient temperature T_a	-5...+55 °C	-5...+55 °C
Permissible ambient light	10 kLux	10 kLux
Material	Housing: GD-Zn/Aluminum Optical surface: Glass	GD-Zn/Aluminum Glass
Connection	M12 connector, 4-pin	M12 connector, 4-pin

More products can be found at www.balluff.com



Accessories



Type	Mounting bracket for BOS 21M	Mounting bracket for BOS 21M
	BAM00TA	BAM00T9



Connector



Type	M12 female, 4-pin (straight) with 2 m cable PUR (black)	M12 female, 4-pin (angled) with 2 m cable PUR (black)
	BCC032F	BCC032Y