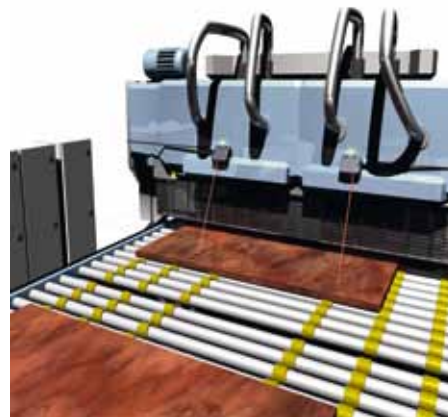


# more added value

- Reliable object detection even at large distances
- Real background suppression up to 2 m sensing range even on dark objects
- Simple alignment due to bright, clearly visible beam spot
- Simple and fast setting with potentiometer
- Through-beam sensor with test input for function control
- Varied and timesaving assembly options

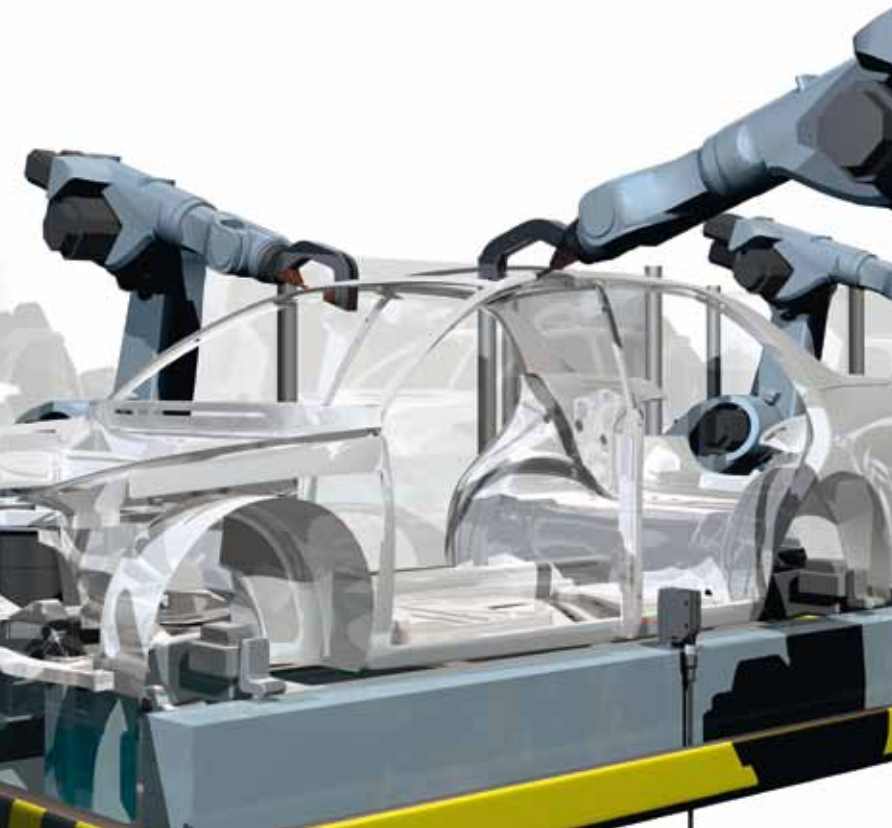
The new light barriers and diffuse sensors in the BOS 50K series combine top performance and compact dimensions. Thanks to their long range, these all-rounders are suitable for use in numerous sectors: From the automobile industry to the woodworking industry. The background suppression, in particular, impresses with an almost color-independent detection of objects – and at maximum sensing range.



Type			
Detection range			
PNP	antivalent	<b>Ordering code</b>	
		Part number	
PNP	NO	<b>Ordering code</b>	
		Part number	
PNP	NO with fault output	<b>Ordering code</b>	
		Part number	
	Emitter with test input	<b>Ordering code</b>	
		Part number	
	Emitter without test input	<b>Ordering code</b>	
		Part number	
Gray value shift			
Operating voltage $U_B$			
Setting			
Switching frequency			
Housing material			
Optical surface			
Degree of protection per IEC 60529			
Ambient temperature $T_a$			
Connection			

Types with PNP NC contact and NPN upon request

Contents



# New Photoelectric Sensors BOS 50K

Even longer ranges with red light

**New**

Contents



Diffuse sensor with background suppression	Diffuse sensor	Retroreflective sensor with polarized light	Through-beam sensor Receiver	Through-beam sensor Emitter
<b>200...2000 mm</b>	<b>1...2000 mm</b>	<b>0.1...18 m*</b>	<b>0...60 m</b>	
<b>BOS018P</b>	<b>BOS01CJ</b>	<b>BOS01CR</b>	<b>BOS01CK</b>	
BOS 50K-PA-RH12-S4	BOS 50K-PA-RD10-S4	BOS 50K-PA-PR10-S4	BOS 50K-PA-RE10-S4	
<b>BOS018N</b>	<b>BOS01CP</b>	<b>BOS01CL</b>	<b>BOS01CM</b>	
BOS 50K-PS-RH12-S4	BOS 50K-PS-RD10-S4	BOS 50K-PS-PR10-S4	BOS 50K-PS-RE10-S4	
<b>BOS0156</b>				
BOS 50K-PSV-RH12-S4				
				<b>BOS01CN</b>
				BOS 50K-XT-RS10-S4
				<b>BOS01EU</b>
				BOS 50K-X-RS10-S4
< 10 %				
10...30 V DC	10...30 V DC	10...30 V DC	10...30 V DC	10...30 V DC
10-turn potentiometer	Potentiometer 270°	Potentiometer 270°		Potentiometer 270°
500 Hz	400 Hz	400 Hz	400 Hz	400 Hz
PC/ABS	PC/ABS	PC/ABS	PC/ABS	PC/ABS
Glass	Glass	Glass	Glass	Glass
IP 67	IP 67	IP 67	IP 67	IP 67
-5...+55 °C	-5...+55 °C	-5...+55 °C	-5...+55 °C	-5...+55 °C
M12 connector, 4-pin	M12 connector, 4-pin	M12 connector, 4-pin	M12 connector, 4-pin	M12 connector, 4-pin

\* based on reflector R-1

## Accessories

- Reflector BOS R-1, circular, dia. 84 mm (ordering code: **BAM00UK**)
- Mounting bracket BMS CS-M-D12-BX07-06, for Balluff mounting system, 90° angle (ordering code: **BAM01AY**)
- Assembly plate BMS CS-M-D12-BX05-02, for Balluff mounting system, straight (ordering code: **BAM003C**)
- Mounting bracket BAM MB-XO-005-B04-4, angle for surface assembly 90°, adjustable sensor inclination (ordering code: **BAM01E8**)

- Clamp holder BOS 21-KH-2, for fastening to dovetail (ordering code: **BAM00TH**)
  - Connector BCC M415-0000-1A-003-PX0434-020 M12 straight, 2 m PUR cable (ordering code: **BCC032F**)
- Further accessories upon request.

