

Select the ideal band for your specific needs

## LIGHT BANDS IN DIVERSE LENGTHS

Our BOH light bands are available in many different lengths from 10 to 300 mm. This means you can choose just the right band length for your individual application. The compact design of the light bands allows you integrate the sensor heads perfectly into tight mounting spaces in machines and on production lines. In addition, its usable working distance from 10 to 500 mm lets you cover large areas with the light bands. For example, you can use them for small parts detection while saving installation space or as ejection monitors over a very large area.

### Choose between four amplifier variants – for maximum user-friendliness

For particularly efficient use of optical sensor heads, you can choose between four versions of the BAE SA-OH amplifiers according to your requirements.

- Amplifiers with integrated display allow you to make settings on the device itself as usual, or to configure them via IO-Link. These amplifiers also offer a particularly wide range of functions and options, including a switching frequency of up to 4 kHz for fast counting. In addition, with these devices, the pulse time can be extended for object detection, for example, if the target does not remain in the detection range long enough.
- Small and slim versions without display are useful if you want to parameterize your sensor heads exclusively via IO-Link.
- Amplifiers with analog output and a switching frequency of 8000 kHz are suitable for monitoring continuous processes. This allows the full signal range to be used.
- Amplifiers with built-in potentiometers for direct and intuitive sensitivity adjustment, or alternatively with automatic teach-in buttons, are ideal for common applications.

### Features

- High repeat accuracy
- Good linearity
- Compact design
- Large variety of types
- Usable working distance 10...500 mm



MICROMOTE –  
OPTICAL SENSOR HEADS



	BOH00F5	BOH00F6	BOH00F7	BOH00FF
Light band length	10 mm	30 mm	50 mm	80 mm
Dimension	25 × 11 × 9 mm	46 × 11 × 9 mm	66 × 11 × 9 mm	100 × 18 × 10 mm
Cable length	1 m	1 m	1 m	2 m
Housing material	PA6	PA6	PA6	Aluminum
Light type	LED infrared	LED infrared	LED infrared	LED infrared
Range	10...300 mm	10...400 mm	10...400 mm	10...500 mm
Smallest part	0.15 mm	0.5 mm	0.8 mm	1.2 mm
Resolution	0.1 mm	0.3 mm	0.5 mm	0.8 mm



	BOH00FH	BOH00FJ	BOH00FK	BOH00FL
Light band length	100 mm	160 mm	200 mm	300 mm
Dimension	120 × 22 × 10 mm	180 × 22 × 11 mm	220 × 22 × 14 mm	320 × 22 × 14 mm
Cable length	2 m	2 m	2 m	2 m
Housing material	Aluminum	Aluminum	Aluminum	Aluminum
Light type	LED infrared	LED infrared	LED infrared	LED infrared
Range	10...500 mm	10...500 mm	10...500 mm	10...500 mm
Smallest part	1.5 mm	2.4 mm	3 mm	4.5 mm
Resolution	1 mm	1.6 mm	2 mm	3 mm

ACCESSORIES



	BAE0119	BAE011C	BAE011U	BAE0120	BAE0123	BAE0127
Output	2 × PNP/NPN/push-pull NO/NC programmable, IO-Link 1.1		Analog, voltage 0...10 V	Analog, current 4...20 mA	PNP NO/NC	
Adjuster	Via IO-Link, jog switch, button	Via IO-Link	Jog switch, button		Slide switches, teach-in	Slide switches, potentiometer
Max. switching frequency	4 kHz	500 Hz	8 kHz	500 Hz		
Connection	M8 male, 4-pin		M8 male, 4-pin		M8 male, 4-pin	