

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 to 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 4kHz 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 using the amplifiers exclusively via IO-Link.
- Amplifiers with analog output and a switching frequency of 8000kHz 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

SWITCHING AMPLIFIER



ANALOG VOLTAGE 0...10 V	BAE00NH		BAE00N6	
ANALOG CURRENT 4...20 mA	BAE00N4		BAE00N5	
PNP NO/NC	BAE00NE	BAE00NL	BAE00NF	BAE00NK
NPN NO/NC	BAE00PR		BAE00PT	
PNP DYNAMIC NO/NC	BAE00NJ		BAE00N7	
Additional features		Auto-synchronization		Auto-synchronization
Connection	Cable, 2 m, PVC	Cable, 2 m, PVC	M8 male, 4-pin	M8 male, 4-pin