

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.

Depending on your requirements you can choose from among analog amplifiers, switching amplifiers or dynamic amplifiers.

### BAE analog amplifiers

With a BAE analog amplifier, you can use the full signal range in your application. The output curves of our light bands also feature high linearity, so that the signal can be precisely controlled. (BAE00N6, BAE00N4, BAE00N5, BAE00NH)

### BAE switching amplifier

The high quality circuitry of the BAE switching amplifier makes repeat accuracies of less than 50  $\mu\text{m}$  possible under good conditions. This is ideal, for example, with web guides where changes in direction need to be monitored. (BAE00NE, BAE00PR, BAE00NF, BAE00PT, BAE00NL, BAE00NK)

### BAE dynamic amplifiers

By using the light bands with dynamically switching amplifiers you can detect very small falling objects over the entire field of measurement. Even abrupt changes, such as when monitoring threads or wires, can be accurately depicted using our light bands. (BAE00NJ, BAE00N7)

### 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