

Groove-Depth 6.5 mm Photomicro Sensors



BS3 Series CATALOG

For your safety, read and follow the considerations written in the instruction manual, other manuals and Autonics website.

The specifications, dimensions, etc. are subject to change without notice for product improvement. Some models may be discontinued without notice.

Features

- Ultra compact size
- Select appearance depending on the installation environment (K, F, R, U, L type)
- Minimize malfunction and improve visibility
 - Minimize sensing part, gap and flush of the body to reduce malfunctions caused by a foreign substance
 - Built-in the operation indicator can be checked in many directions
- Selectable models for the operation of indicator
 - Indicator turns ON under the light received condition
 - Indicator turns ON under the light interrupted condition
- Resistant structure for shock and vibration
 - Shock 15,000 m/s² (approx. 1,500 G)
 - Vibration 10 to 2,000 Hz (1.5 mm double amplitude)
- Selectable operation modes (Light ON/Dark ON)
- High-frequency response : 2 kHz

Ordering Information

This is only for reference, the actual product does not support all combinations. For selecting the specified model, follow the Autonics website.

BS 3 - ① 1 ② - ③

① Appearance

F	
K	
L	
R	
U	

② Indicator

M: Turns ON under the light received condition
R: Turns ON under the light interrupted condition

③ Control output

No mark: NPN open collector output
P: PNP open collector output

Series	BS3
Sensing type	Through-beam
Sensing distance	5 mm
Sensing target	Opaque materials
Min. sensing target	≥ 0.8 mm × 1.8 mm
Hysteresis	≤ 0.05 mm
Response time	Received light: ≤ 20 μs, Interrupted light: ≤ 100 μs
Response frequency ⁽⁰¹⁾	2 kHz
Light source	Infrared LED
Peak emission wavelength	940 nm
Operation mode	Built-in Light ON / Dark ON
Indicator	Operation indicator (red)
Approval	
Unit weight	≈ 50 g

A	Optical axis
B	Operation indicator (red)
C	Sensing window