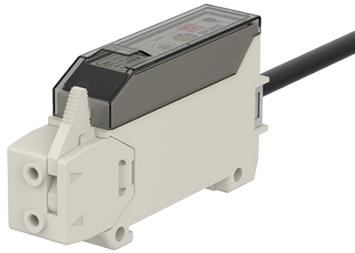


# Volume Adjustment Fiber Optic Amplifiers



## BF3 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

- Convenient DIN rail mounting type
- Response time: max. 1 ms
- Enables to adjust sensitivity with high accuracy by coarse and fine adjuster
- Selectable Light ON/Dark ON operation mode by control wire
- Reverse power protection and output short overcurrent protection circuit
- Adjustable length with free cut type fiber optic unit

### Ordering Information

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

**BF3RX** - ①

#### ① Control output

No mark: NPN open collector output

P: PNP open collector output

### Product Components

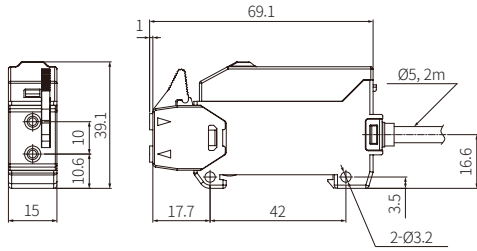
- Product
- Bracket
- Adjustment screwdriver
- Instruction manual
- Bolt / Nut × 2

### Specifications

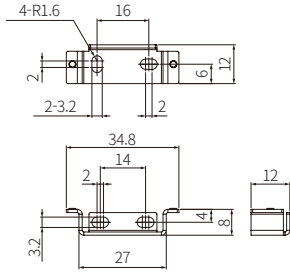
<b>Model</b>	BF3RX-□
<b>Light source</b>	Red LED
<b>Peak emission wavelength</b>	660 nm, modulated
<b>Response time</b>	≤ 1 ms
<b>Sensitivity setting</b>	Manual sensitivity setting (adjuster)
<b>Operation mode</b>	Light ON / Dark ON selectable (control wire)
<b>Indicator</b>	Operation indicator (red)
<b>Approval</b>	ERC
<b>Unit weight</b>	≈ 90 g
<b>Power supply</b>	12-24 VDC≐ ±10% (ripple P-P: ≤ 10%)
<b>Current consumption</b>	≤ 40 mA
<b>Control output</b>	NPN open collector output / PNP open collector output model
Load voltage	≤ 30 VDC≐
Load current	≤ 200 mA
Residual voltage	NPN: ≤ 1 VDC≐, PNP: ≤ 2.5 VDC≐
<b>Protection circuit</b>	Reverse power protection circuit, output short overcurrent protection circuit
<b>Insulation resistance</b>	≥ 20 MΩ (500 VDC≐ megger)
<b>Noise immunity</b>	±240 VDC≐ the square wave noise (pulse width: 1 μs) by the noise simulator
<b>Dielectric strength</b>	1,000 VAC~ 50 / 60 Hz for 1 min
<b>Vibration</b>	1 mm double amplitude at frequency of 10 to 55 Hz (for 1 min) in each X, Y, Z direction for 2 hours
<b>Shock</b>	500 m/s <sup>2</sup> (≈ 50 G) in each X, Y, Z direction for 3 times
<b>Ambient illuminance (receiver)</b>	Sunlight: ≤ 11,000 lx, incandescent lamp: ≤ 3,000 lx
<b>Ambient temperature</b>	-10 to 50 °C, storage: -25 to 70 °C (no freezing or condensation)
<b>Ambient humidity</b>	35 to 85%RH, storage: 35 to 85%RH (no freezing or condensation)
<b>Cable spec.</b>	Ø 5 mm, 4-wire, 2 m
<b>Wire spec.</b>	AWG24 (0.08 mm, 40-core), insulator outer diameter: Ø 1 mm
<b>Material</b>	Case: ABS, cover: PC

## Dimensions

- Unit: mm, For the detailed drawings, follow the Autonics website.



## ■ Bracket



## Sold Separately

- Fiber optic units (except GT-420-13H2 model)

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