

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

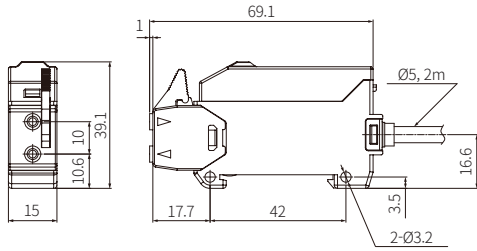
- Product
- Bracket
- Adjustment screwdriver
- Instruction manual
- Bolt / Nut × 2

Specifications

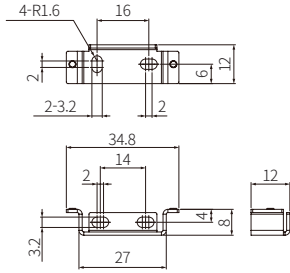
Model	BF3RX-□
Light source	Red LED
Peak emission wavelength	660 nm, modulated
Response time	≤ 1 ms
Sensitivity setting	Manual sensitivity setting (adjuster)
Operation mode	Light ON / Dark ON selectable (control wire)
Indicator	Operation indicator (red)
Approval	ERC
Unit weight	≈ 90 g
Power supply	12-24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