

Volume Adjustment

Fiber Optic Amplifiers

BF3 Series



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

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	CE
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



View product detail