Button Adjustment

Fiber Optic Amplifiers

BF4 Series



Features

- High response time: max. 0.5 ms
- Auto sensitivity setting (button setting) / remote sensitivity setting type
- External synchronization input, mutual interference protection, self-diagnosis
- Reverse power protection and output short overcurrent protection circuit
- Timer function: OFF delay timer approx. 40 ms fixed.
 (standard type, remote sensitivity setting type only)
- · Automatically selectable Light ON / Dark ON
- Precise detection of small target and easy to install in the complicated place

Specifications

	25.000	25.000
Model	BF4R	BF4G
Light source	Red LED	Green LED
Peak emission wavelength	660 nm, modulated	525 nm, modulated
Response time	Built-in 2 differential frequencies (frequency 1: ≤ 0.5 ms, frequency 2: ≤ 0.7 ms)	
Sensitivity setting	Button / Remote sensitivity setting	
Operation mode	Light ON / Dark ON selectable	
Self-diagnosis output	YES	
Load voltage	≤ 30 VDC==	
Load current	≤ 50 mA	
Residual voltage	NPN: \leq 1 VDC== (load current: 50 mA), \leq 0.4 VDC== (load current: 16 mA) PNP: \leq 2.5 VDC==	
Indicator	Operation indicator (red), stability indicator (green)	
Approval	C E E F I	C € ERI
Unit weight (packaged)	≈ 65 g (≈ 120 g)	≈ 65 g (≈ 120 g)
Power supply	12-24 VDC== ±10% (ripple P-P: ≤ 10%)	
Current consumption	≤ 45 mA	
Control output	NPN open collector output / PNP open collector output model	
Load voltage	≤ 30 VDC==	
Load current	≤ 100 mA	
Residual voltage	NPN: \leq 1 VDC== (load current: 100 mA), \leq 0.4 VDC== (load current: 16 mA) PNP: \leq 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 $\mu s)$ by the noise simulator	
Dielectric strength	1,000 VAC \sim 50 / 60 Hz for 1 min	
Vibration	1 mm double amplitude at frequency 10 to 55 Hz (for 1 min) in each X, Y, Z direction for 2 hours	
Shock	500 m/s² (\approx 50 G) in each X, Y, Z directions for 3 times	
Ambient illuminance (receiver)	Sunlight: ≤ 11,000 lx, incandescent lamp: ≤ 3,000 lx	
Ambient temperature	-10 to 50 °C, storage: -20 to 70 °C (no freezing or condensation)	
Ambient humidity	35 to 85%RH, storage: 35 to 85%RH (no freezing or condensation)	
Cable spec.	Standard type: Ø 4 mm, 4-wire, 2 m External synchronization input, remote sensitivity setting type: Ø 4 mm, 6-wire, 2 m	
Wire spec.	Standard type: AWG22 (0.08 mm, 60-core), insulator outer diameter: \emptyset 1.25 mm External synchronization input, remote sensitivity setting type: AWG24 (0.08 mm, 40-core), insulator outer diameter: \emptyset 1 mm	
Material	Case: heat-resistance ABS, cover: PC	



View product detail