High-Speed Fiber Optic Amplifier NPN/PNP Selectable Output 50μs Response Time Timer Function 12-24VDC Input

Our Product Introduction

Basic Information

- Place of Origin: Guangdong, China
- Brand Name: KRONZ
- Certification: CE
- Model Number: BFH-A10N
- Minimum Order Quantity: 1
- Price: Negotiable
- Packaging Details: Polybag packing
- Delivery Time: 5-8 working days
- Payment Terms: T/T,Western Union,MoneyGram
- Supply Ability: 10000 pieces per month

Product Specification

- Indicator: LED
- Housing Material: Polycarbonate
- Light Source: Red LED
- Countrol Output: NPN
- Wavelength: 630nm
- Power Consumption: 870 Mw
- Ambient Temperature: -20 To +55
- Ambient Humidity: 35 To 85%RH

More Images

Our Product Introduction

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Product Description

Industrial Fiber Optic Sensor Amplifier | 630nm Red LED | Ultra-Fast 50μs Response | Light/Dark Mode (LIGHT ON/DARK ON) | 4-Channel Mutual Interference Prevention

Product Description

Multi-Function Digital Fiber Optic Amplifier for Precision Detection | NPN/PNP Output (300mA/100mA) | Delay Timer & Real-Time Settings | Robust PC Housing for Industrial Automation

Ultra-Fast Response Time (50μs, 250μs, 500μs, 1ms Selectable), 630nm Red LED Light Source, High Immunity to Ambient Light (Sunlight 30,000 lux).Selectable NPN/PNP Output (Max 300mA/100mA), Configurable Light-On/Dark-On Mode via Switch.Multi-Mode Timer (Delay On/Off, One-Shot, etc.), Real-Time Function Setting (Two-Point Threshold, Auto/Manual, Key Lock).

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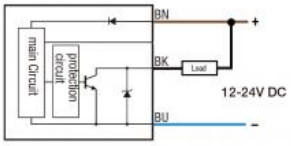
NPN	BFN-A10N
Countrol Output	NPN: External voltage: below 30V DC (between detection output and 0V); maximum output current: 300mA; residual voltage: below 2V
Timer Function / Range	Delay off, delay on, one-shot timer, on/off, on one-shot; adjustment range: 1–9999 ms
Rated Value	NPN: Typical: Maximum 900 mW (max 32 mA at 24V; max 47 mA at 13V
Mutual Interference Prevention	F0,F1,F2,F3Four-channel interference suppression

Technicial Data

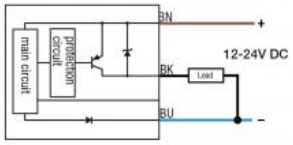
NPN		BFN-A10N
PNP		BFN-A10P
Light Source		Red LED（wave length:630nm）
Response Time		50μs(H101)、250μs(H102)、500μs(H103)、1ms(H104)
Output Mode		Selectable via slide switch: Light-on mode (LIGHT ON) / Dark-on mode (DARK ON)
Protection Circuit		Power reverse polarity protection, Output surge protection, Output reverse polarity protection, Output overcurrent protection
Control Output	NPN	External voltage: below 30V DC (between detection output and 0V); maximum output current: 300mA; residual voltage: below 2V
	PNP	External voltage: below 30V DC (between detection output and +0V); maximum output current: 100mA; residual voltage: below 2V
Timer Function / Range		Delay off, delay on, one-shot timer, on/off, on one-shot; adjustment range: 1~9999 ms
Rated Value	NPN	Typical: Maximum 900 mW (max 32 mA at 24V; max 47 mA at 13V
	PNP	Typical: Maximum 900 mW (max 36 mA at 24V; max 50 mA at 13V)
Mutual interference prevention		F0、F1、F2、F3Four-channel interference suppression
Real-time Function		Parameter initialization / Key lock / Two-point threshold, full-auto and manual setting / Quick saturation attenuation
Power Supply Voltage		12 to 24VDC ± 10%、Ripple(P-P)10% 以下
Power Consumption		＜ 870 mw
External Input		Unused / External teaching / Hold / Zero setting / Laser off — switchable
Ambient Light Level		Incandescent light: max 20,000 lux; Sunlight: max 30,000 lux
Ambient Temperature		-20°C to +55°C
Ambient Humidity		35 to 85%RH
Vibration Resistance		10–50 Hz, double amplitude 1.5 mm, 2 hours each in X, Y, and Z directions
Shock Resistance		Approx. 50G (500 m/s²), 3 times each in X, Y, and Z directions
Housing Material		Polycarbonate
Weight		Approx. 20g (main unit)
Size		L×W×H: 75×11.2×33.8mm

Circuit Diagram

DC NPN Output



DC PNP Output



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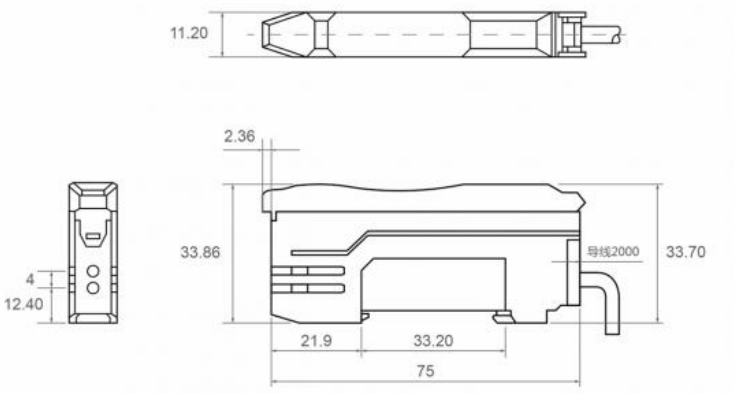

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