

RIVO MULTITRADE OPTICAL SYSTEMS

Genuine BF4R Fiber Optic Sensor



Overview

AUTONICS BF4R Fiber Sensor. Original Autonics. Auto sensitivity setting (Button setting)/Remote sensitivity setting.

Key Takeaways

The BF4R-R is a high-performance fiber optic amplifier sensor from Autonics, designed for fast, compact, and reliable optical detection in industrial applications. Overview

The BF4R-R is part of the Autonics BF4R series of fiber optic amplifiers, which are engineered for precise detection in narrow spaces and challenging environments. It is a digital fiber optic amplifier that supports NPN output and comes with a 2-meter cable connection, capable of handling up to 50 mA of current. The sensor is suitable for applications requiring high-speed response and compact installation.

Key Features

- **Fast Response:** The sensor operates with a response time of under 0.5 milliseconds, making it suitable for high-speed automation tasks.
- **Compact Design:** Its small form factor allows installation in tight spaces without compromising performance.
- **External Synchronization Input:** Enables coordination with other sensors or devices to prevent interference and improve detection accuracy.
- **Mutual Interference Protection:** Reduces false triggering when multiple sensors operate in close proximity.

- Self-Diagnosis Function: Provides status feedback to ensure reliable operation and simplify maintenance .

Applications

The BF4R-R is commonly used in industrial automation, assembly lines, material handling, and quality control systems where precise optical detection is required. Its high-speed response and interference protection make it ideal for environments with multiple sensors operating simultaneously.

Installation and Operation

- Mounting: Can be DIN-rail mounted or installed in compact spaces.
- Connection: Comes with a 2-meter cable; ensure proper wiring for NPN output configuration .
- Environmental Considerations: Designed to operate in non-freezing, non-condensing conditions .

Additional Resources

For detailed specifications, wiring diagrams, and accessory options, the Autonics BF4R Series manual provides comprehensive guidance, including information specific to the BF4R-R model . Distributors like DigiKey and TME also provide datasheets and availability information . The BF4R-R remains a reliable choice for applications requiring compact, fast, and interference-resistant fiber optic sensing.

Article Content

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BF4 Series Fiber Optic Amplifier

To extend sensing distance (diffuse reflective type): If fiber optic sensor is used in place where there are targets with high reflectivity

Autonics BF4R-R Fiber optic Amplifier Sensor

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BF4R 12-24VDC AUTONICS

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Feature highlights: The BF4R Autonics Fiber Sensor features a digital display and red LED light source, offering precise position

BF4R | Fiber Optic Amplifier | Autonics

Autonics BF4R - FIBER OPTIC AMPLIFIER The Autonica BF4R is a standard-type photoelectric sensor with a red LED emitter at

BF4R-Digital Display Fiber Optic Amplifiers-Fiber Optic Sensors ...

Autonics Sensors Features Type : Standard type Light source : Red LED(660nm)
Response time : Frequency 1: Max. 0.5ms

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