Fiber Optic Sensor NPN Model

Overview

Digital Fiber Optic Sensor Specs Digital Fiber Optic Sensor FS-N40 series Amplifier Units NPN Amplifier Units PNP Expansion unit (Zero line type) Main unit.

Key Takeaways

An NPN fiber optic sensor is a type of optical sensor that outputs a sinking signal when it detects a target, commonly used for high-precision detection, counting, and position control in automation systems.

Overview

An NP

N fiber optic sensor operates by sending light through an optical fiber to a target area. When the light interacts with the target, the reflected or interrupted light is detected by a photodetector, which triggers the sensor output.

In NP

N configuration, the sensor sinks current to ground when activated, meaning the output line is pulled low to signal detection. These sensors often support dual output modes (NPN/PNP) and NO/NC (Normally Open/Normally Closed) configurations for flexible integration. Key FeaturesHigh-speed response: Many NPN fiber optic sensors have fast response times suitable for high-frequency detection.

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Interference prevention: Advanced models can prevent mutual interference when multiple units are used in close proximity. Compact and flexible: Fiber optic sensors are ideal for small spaces and precise positioning tasks. Durability: Resistant to electromagnetic interference and ambient light, making them reliable in industrial environments.

Digital display and teaching functions: Some models, like TAKEX F85RN, include dual digital displays and simple teaching for easy setup. ApplicationsNPN fiber optic sensors are widely used in automation, packaging, electronics, and food industries for tasks such as: Object detection and countingPosition control in assembly linesMonitoring small or intricate componentsHigh-accuracy measurement in confined spaces Installation and SpecificationsCable length: Typically limited to 30 meters for M8 connector types. Temperature range: Depending on the number of connected units, operating temperatures range from -20°C to +55°C.

Expansion: Some digital fiber optic sensors can connect up to 16 units with dual outputs counted as two units. Power supply: Ensure adequate voltage when expanding multiple units, often 12 V or higher.

Summary

An NP

N fiber optic sensor is a versatile, high-precision optical sensor that outputs a sinking signal when detecting a target. It is suitable for industrial automation applications requiring fast response, compact installation, and reliable detection. Many models offer dual NPN/PNP outputs, NO/NC modes, interference prevention, and digital displays for easy setup and integration.

Article Content

Digital Fiber Optic Sensor

Specs Digital Fiber Optic Sensor FS-N40 series Amplifier Units NPN Amplifier Units PNP Expansion unit (Zero line type) Main unit (M8 Connector type) Multi-Output

Specs : Digital Fibre Optic Sensor

Specs Digital Fibre Optic Sensor FS-N40 series Fibre Amplifier, Cable Type, NPN Fibre Amplifier, Cable Type, PNP Fibre Amplifier, Zero line Fibre Amplifier, M8 Connector Type Multi-Output Unit NPN/PNP

NPN Fiber Optic Sensors – Mouser

NPN Fiber Optic Sensors are available at Mouser Electronics. Mouser offers inventory, pricing, & datasheets for NPN Fiber Optic Sensors.

Fibre Amplifier, Cable Type, Main Unit, NPN

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When using 2 outputs, 1 unit is counted as 2 units. The prescribed values for the ambient temperature assume that the sensor amplifier has been mounted on a

Digital Fiber Optic Sensor FS-N40 Series

Long Range and Stable Detection with Any Head With industry leading high-power, the FS-N40 Series enables long range detection with even the thinnest of fiber heads. This also ensures detection

Banner Engineering QS18VN6F Fiber Optic Photoelectric Sensor Npn

Features: Universal Housing Style with 18 mm Threaded Lens or Side Mount All Sensing Modes Available, Including Lasers, Fiber Optics and Background Suppression IP67, NEMA 6-Rated

TRI-TRONICS SDL SMARTEYE OCNTROLLER With FIBER OPTIC

The TRI-TRONICS SMARTEYE Controller with Fiber Optic Cable is used in industrial photoelectric sensing systems to detect objects using fiber optic light guides in confined or demanding

High Performance Fiber Optic Sensor with Built-in Light Compensation ...

Fiber Optical Sensor Mounting Type Flexible Mounting Brand Name AKUSENSE Place of Origin Guangdong, China Series PE2 Features Fiber amplifier sensor Description FIBER OPTIC SENSOR

TRI-TRONICS Model SEID Videojet Fiber Optic Sensor With BF-A

The TRI-TRONICS Model SEID Videojet Fiber Optic Sensor with BF-A-36TP Cable is used in industrial photoelectric sensing systems to detect the presence or absence of objects through a remote

Datasheet Archive: THROUGH-BEAM FIBER OPTIC SENSOR HEAD

View results and find through-beam fiber optic sensor head datasheets and circuit and application notes in pdf format.

High Precision Digital Fiber Optic Amplifier FS-N41P NPN Output for ...

NPN, PNP, Relay NO, Relay NC Usage fiber optic sensor Theory fiber optic sensor Manufacturer Part Number FS-N41P Description photoelectric sensors, / Mounting Type DIN Brand Name Original

Banner Engineering SM912FQD Sensor, Glass Fiber

VALU-BEAM SM912 SeriesThe VALU-BEAM SM912 series of sensors are designed to be rugged, self-contained photoelectric sensors and used for industrial

Keyence Fiber Optic Amplifier Fs-N11cn M8 Connector Npn 24 V

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Product Introduction: The KEYENCE FS-N11CN is a high-performance digital fiber optic sensor amplifier designed for reliable and precise detection in industrial automation environments. This M8 connector

Omron Automation E3X-NAG11 Amplifier, NPN, 12 to 24 VDC, 35 mA

Use the LED Bar Display to Quickly Confirm Sensor Performance Optical Communication Design Prevents Mutual Interference for Up to Five Amplifiers Green LED Models Address Mark-Detecting

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Fiber Sensor Digital Fiber Optic Sensor CZ-V1 Keyence

Fiber Sensor Digital Fiber Optic Sensor CZ-V1 Keyence Keyence Product Info : - Brand : Keyence - Model/ Type : CZ-V1 - Made in Japan Specifications : Output : NPN. Volt daya : 12-24 VDC ±10 %,

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