

Article Overview

To set the mode of a fiber optic sensor, press and hold the MODE button to enter configuration, then use the manual or adjustment buttons to select the desired detection mode, response speed, or threshold settings.

Step-by-Step Guide for Keyence FS-N Series Sensors

- o Enter Mode Setting: Press and hold the MODE button for approximately 3 seconds to access advanced settings .
- o Select Response Speed: When "Fine" flashes on the display, press the manual button to choose the response speed. For example, selecting "hSp" sets high-speed mode with a 50 us response time .
- o Set Detection Threshold: Press the MODE button to move to threshold settings. The display will flash "set" or "setP" for percentage calibration. Use the manual button to adjust the threshold (e.g., 10%-15% of light intensity), .
- o Confirm Settings: Press the MODE button once more to confirm. The current display will show the received light intensity, indicating the sensor is ready for operation .
- o Optional Preset: Use the PRESET button to save commonly used settings for quick recall .

Additional Tips

- o Power Mode Selection: Some sensors allow fixing the power mode to "MEGA mode" using a power select switch to ensure consistent light emission .
- o Fiber Connection: Ensure the fiber unit is properly inserted and secured with the fiber lock lever to maintain accurate detection .
- o Calibration: Use the SET button to calibrate sensitivity before adjusting modes, especially when detecting objects of varying reflectivity .
- o Advanced Features: For sensors like the Panasonic FX-500 series, you can also adjust emission power, timer settings, and window comparator modes to fine-tune detection .

Summary

Setting the mode of a fiber optic sensor involves entering the configuration mode via the MODE button, selecting the desired response speed, detection threshold, and optionally saving presets. Proper fiber connection and calibration are essential for accurate operation. Advanced sensors may offer additional options like emission power adjustment and window comparator modes for precise control .

By taking advantage of these economies of scale, fiber-optic sensors and instruments have moved to broad usage and applicability

Fiber Optic Sensor Mode Adjustment

How to Adjust - Set up Keyence Fibre Optic Teach Sensor on JDA Filling & Capping

3 Locking the fiber-optic cables 7 Status indicator LED, yellow: Output active 8 Numeric display 3-digit and 4-digit 9 step pushbutton

This document provides instructions for setting up and using a FS-N10 Series Digital Fiber Sensor. It includes details on the sensor

This document provides instructions for setting sensitivity and calibrating digital fiber optic sensors. It

Extrinsic Fiber Optic Sensors Fiber is Only an Information Carrier To and From a Black Box Light Signal Generation in Black Box

Fiber optic sensors are compact because the detection circuit is located in the amplifier, allowing for

Sensor Setting Guide available in all major Asian and European languages. An essential support tool for personnel configuring

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This paper presents a displacement sensor designed to achieve the Optical Vernier Effect (OVE) through a simple yet

This mode can change the threshold value depending on the cycle (1 to 9,999 sec.) that is set with the variations of the incident light

Learn professional techniques for adjusting fiber optic photoelectric sensors in industrial automation. This guide covers

While the current value is displayed, press the button once. Use to switch the output (L-on/D-on), then press the

Keyence FS-V31 instruction manual with AI. Get instant answers, download the PDF, or chat with our AI

Number of adherence mounting of sensor head depends on response time of interference prevention function. " ": Set when using

Presentation Focus The major focus of this presentation will be on distributive fiber optic sensors which has seen the greatest usage

