

# Adjusting the setting value of the fiber optic sensor



## Summary of Content

Fiber optic sensor values are set by calibrating sensitivity, adjusting detection thresholds, selecting power modes, and configuring output signals according to the target and environment.

### Step 1: Power and Connection

- Connect the sensor to a DC 24V power supply (brown wire to +24V, blue wire to 0V) and connect the signal wire to the control system or relay 0V .
- Insert the fiber unit into the sensor's transmitter (T) and receiver (R) ports, securing it with the fiber lock lever .

### Step 2: Initial Calibration

- Place the target object at the farthest detection point. The sensor LED should display the received light intensity as 0. Press the SET button to record this baseline .
- Move the object closer to the transmitter until the LED shows the desired intensity (e.g., double the baseline). Press SET again to allow the sensor to calculate the trigger light intensity automatically .

### Step 3: Sensitivity Adjustment

- Use the  $\triangle$  and  $\nabla$  buttons or manual adjustment to fine-tune the detection threshold .



## Article Content

Manual Sensor Keyence | PDF | Optical Fiber | Amplifier

How is the sensitivity setting adjusted using the two-point calibration method in FS-V31 series sensors? Two-point calibration for FS

How to Calibrate Fiber Optic Sensors for Strain

Learn the basics of calibrating fiber optic sensors for strain measurement using different methods and tools in this article.

FS-N Series Setting Guide 468GB

With simple operation, the current value is adjusted to "100.0" at the same time as when adjusting sensitivity. This can remove

SICK WLL180T MANUAL Pdf Download | ManualsLib

The 2-point Teach-in function on the SICK WLL180T sensor allows for exact adjustment of the switching threshold based on both the

How to Setup Fiber Optic Sensor?

First, put the detected object in the farthest place, LED displays the received light intensity 0, press SET key. Then move the

FS-N Series Sensor Setting Guide | PDF | Equipment | Electronics

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

FX-500 Series Instructions

Set the incident light intensity to the target value. When you set the display adjustment while the incident light intensity does not have

Digital Fiber Sensor Amplifier FX-505 -C2

This is the method to conduct the 3-point teaching (P-1, P-2, P-3) and to set the threshold range by setting the threshold value (1\_SL)

Sensor Setting Guide | KEYENCE America

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

Digital Fiber Sensor Amplifier FX-500 Series PRO MODE

When setting to limit teaching, threshold value is followed up on the bases of shift amount. Further-more, when setting to auto

## Contact Us

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