

How to adjust a fiber optic color mark sensor



AI Overview

Adjusting a fiber optic color mark sensor involves proper mounting, selecting the correct LED color, teaching the sensor the target mark, and fine-tuning sensitivity for reliable detection.

Mounting and Positioning Ensure the sensor is mounted at a consistent distance from the target surface, typically 10–50 mm depending on the model, using a stable bracket to minimize vibration. The sensing head should be perpendicular to the material path to avoid angular reflections. For glossy or transparent materials, consider using a polarized sensor or adjusting the fiber optic light guide angle to reduce glare. Shield the sensor from direct sunlight or strong artificial light to prevent interference.

LED Color Selection Most fiber optic color mark sensors offer red, green, and blue LEDs. Choose the LED color that provides the highest contrast between the mark and the background:

- Red: black mark on white background
- Green: green mark on red background
- Blue: yellow or white mark on dark surfaces

Cycle through the colors while observing the sensor's output indicator; a steady ON signal indicates a good choice. Some sensors allow automatic color selection via a teach button.

Teaching the Sensor Place the material with the target color mark under the sensor lens. Activate teach mode (press and hold the teach button for 3 seconds or as per the manual). The sensor samples the mark and stores it as a reference.

For marks similar to the background, use a two-point teach: first teach the mark, then teach the background to set a threshold. Advanced sensors, like the Banner R55F series, offer Dynamic TEACH, which samples multiple marks during machine operation and automatically sets the optimal sensitivity.

Sensitivity and Threshold Adjustment Adjust the sensitivity threshold manually or via teach mode to ensure the sensor triggers only on the mark and not the background. Use the co...

Article Content

BA-999/Color Mark Brochure

2 R55F: High-resolution fiber optic color mark sensor. A compact, solid-state sensor that detects 16 levels of gray scale at 10,000 actuations per second! Available with glass or plastic fibers for

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CZ-V20 Digital RGB Sensor Configuration Guide

This document provides instructions for setting up and operating a digital RGB fiber optic sensor. It explains how to calibrate the sensor using one or two color reference points, and how to adjust the

R55F Fiber-Optic Color Mark Sensors

Outstanding color contrast sensitivity; detects 16 levels of gray scale Depending on beam color, reliably detects the toughest color mark contrasts, including 20% yellow against white Fast, 50-microsecond

R55FQ | R55F Series Fiber Optic Registration Mark

R55 Color Mark: Glass Fiber w/ Infrared LED, Range: Depends on Fiber; Input: 10-30 V dc, Outputs: Bipolar NPN/PNP, 5-pin M12 Integral QD

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During Dynamic TEACH, the R55F samples many color marks against their background material and automatically sets the sensitivity at the optimum level.

R55F Fiber-Optic Color Mark Sensors

R55F sensors feature TEACH sensitivity adjustment, by presenting the light and the dark sensing conditions to the sensor. In addition, sensitivity may be fine-tuned at any time by clicking the + or -

R55F Series Fiber Optic Registration Mark Sensor

Advanced fiber optic color-mark sensor for the toughest color contrasts, available with white, blue, green or infrared LED.

Color Mark Sensor Adjustment Methods

Color mark sensors are widely used in automated production lines and robotic systems to detect and identify colors. Proper adjustment and calibration ensure accuracy and stability. This

MARK•EYE PRO High-Resolution Registration Mark Sensor | TRI

Simply put the background in view and press the black button if the background is darker than the registration mark or press the white button if the background is lighter than the registration mark.

R55f series fiber-optic color mark sensors, Setup mode – Banner

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Color Mark Sensor Adjustment Methods

Practical methods to adjust and calibrate color mark sensors for accurate and stable detection.

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Banner R55F Fiber Optic User Manual

The R55F Fiber-Optic Sensor was developed to provide simplicity of operation and access to tight areas for color mark (registration) sensing applications. The R55F is a technological advancement from

2 Registration Mark Photoelectric Sensors

Opaque Material (Non-Foil) Position the fiber optic light guide to view material looking straight down (see Fig.1). Place background in view of fiber optic light guide. Adjust OFFSET as follows: For dark mark

Banner R55F Fiber Optic User Manual

R55F sensors feature TEACH mode sensitivity adjustment, by presenting the light and the dark sensing conditions to the sensor. In addition, sensitivity may be fine-tuned at any time by simply clicking the

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COLOR MARK Sensors

D11 & D11 Expert™: Plastic fiber optic sensors. ber optic sensors. Available with red, green or blue LEDs to optimize performance in all color mark detection applic SL & SLE Series: Opposed mode

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Sensor Setting Guide

Sensor Setting Guide available in all major Asian and European languages. An essential support tool for personnel configuring sensors in any country. Download sensor configuration guides.

R55F Series Fiber optic color mark sensor

The R55F fiber optic sensor was developed to provide simplicity of operation and access to tight areas for color mark (registration) sensing applications. The R55F is a technological advancement from

2 Registration Mark Photoelectric Sensors

Based upon the characteristics of the web material, the printed mark and the sensing site conditions, the following guidelines will help to select the proper SMARTEYE® COLORMARK™ II to fit your

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