How much does a matrix fiber optic sensor cost



Overview

High-quality matrix fiber sensors for industrial applications. Reliable presence detection and durable optical solutions. Wholesale prices and expert support.

Key Takeaways

Matrix Fiber Optic Sensor Platforms typically range from $50 to $500 per unit, depending on type, range, and manufacturer.

Overview

Matrix Fiber Optic Sensors are advanced optical sensing devices that integrate multiple sensing points into a single fiber strand, offering higher sensitivity, accuracy, and multi-point detection compared to standard fiber sensors. They are used in industrial automation, robotics, packaging machinery, and small object detection applications.

Price Factors

Sensor Type and Range: Through-beam sensors with longer detection ranges (e.g., 45mm or more) generally cost more than short-range diffuse reflection sensors.

Manufacturer and OE



© 2026 CJC FIBRE CONSULTANTS - All rights reserved

M Services: Established manufacturers with certifications (ISO 9001, ISO 14001, OHSAS 18001) and OEM experience may charge higher prices due to quality assurance and customization options. Quantity and Lead Time: Bulk orders or stock items can reduce per-unit cost, while custom or low-volume orders may increase it. Distributor or Retailer: Prices vary between direct manufacturer quotes, online marketplaces like Newegg, and electronics distributors such as Mouser.

Typical Price RangeSmall-range diffuse reflection sensors: $50–$150 per unitMedium-range through-beam sensors: $150–$300 per unitHigh-end industrial matrix platforms with extended range or multi-point detection: $300–$500+ per unitPurchasing GuidanceContact suppliers directly for exact quotes, especially for OEM or bulk orders. Check distributor websites like Mouser for current inventory and pricing. Verify certifications and warranty to ensure quality and reliability.

By considering sensor type, range, manufacturer, and order volume, you can estimate the cost and select the most suitable Matrix Fiber Optic Sensor Platform for your application.

Article Content

High Quality Matrix Fiber Sensors for Industrial Use

High-quality matrix fiber sensors for industrial applications. Reliable presence detection and durable optical solutions. Wholesale prices and expert support.

Matrix Fiber Optic Sensor, Infrared Sensing Area Detection, Diffuse ...

Buy Matrix Fiber Optic Sensor, Infrared Sensing Area Detection, Diffuse Reflection, Through-Beam Switch, Small Object Detection (Diffuse Reflection 25mm 25MLD) with fast shipping and top-rated

MeLphi Matrix Fiber Optic Sensor Area Detection Through

Buy MeLphi Matrix Fiber Optic Sensor Area Detection Through-Beam Infrared Induction Diffuse Reflection photoelectric Switch Grating Light Curtain (Size : FR -20S Matrix Diffuse Reflection):

OEM Matrix Fiber Optic Sensor Through Beam Fiber

OEM Matrix Fiber Optic Sensor Through Beam Fiber Area Sensor 45mm Range Fft-45ml, Find Details and Price about Matrix Fiber Sensor and Area Sensor from

Matrix Fiber Optic Sensor Fft-12mld for Packaging Machine

Matrix Fiber Optic Sensor Fft-12mld for Packaging Machine, Find Details and Price about Optical Fiber Fiber Optic Sensor from Matrix Fiber Optic Sensor Fft-12mld

Compare Matrix vs Standard Fiber Sensors for Your Application

© 2026 CJC FIBRE CONSULTANTS - All rights reserved

What matters most depends on several things: what exactly needs monitoring, how much money is actually available for purchase, and just how long the equipment will need to last before

Optical Sensing Instruments – Buyer''s Guide & Suppliers

This buyer''s guide for optical sensing instruments provides technical background, comparison of major types, selection criteria, and an overview of suppliers.

Fiber Optic Sensors

Buy Fiber Optic Sensors. Newark Electronics offers fast quotes, same day dispatch, fast delivery, wide inventory, datasheets & technical support.

Full text of "NEW"

Osis optic observations nationalist nap Moira mocking MKDA mixing mismo mill midday mathematics mast Marth007 marquess maids Luis'' luego loomed lifts life''s lag labs Kynareth kidney kickflip justify

Compare Matrix vs Standard Fiber Sensors for Your Application

Explore the fundamentals of fiber optic sensing and uncover its advantages over traditional sensors. Learn how matrix and standard fiber optic sensors perform in real-world

Full text of "NEW"

Full text of "NEW" See other formats Word . the, > < br to of and a : " in you that i it he is was for - with) on (? his as this ; be at but not have had from will are they -- ! all by if him one your

How Much Do Fiber Optic Temperature Sensors Cost? Complete

Fiber optic temperature sensors have revolutionized temperature monitoring across critical industrial applications with their exceptional accuracy, EMI immunity, and reliability in extreme

Optical Sensing Instruments – Buyer''s Guide & Suppliers

When selecting an optical sensing instrument, the primary consideration is the match between the measurement principle and the application requirements

MATRIX-F II FT-NIR Spectrometer | Bruker

MATRIX-F II: Classical FT-NIR spectrometer with fiber optic coupling for the use of flow cells and conventional probes (for solids and liquids).

High-Quality Best Fiber Optic Sensor Systems Product, Manufacturer

© 2026 CJC FIBRE CONSULTANTS - All rights reserved

At Matrix PT Tech Co., Ltd., I''m excited to share our top-of-the-line Fiber Optic Sensor Systems designed for a variety of industrial applications. I know how crucial it is for B2B purchasers like you to

Fiber Optic Sensor

Fiber optic sensors are defined as devices that utilize optical fibers to measure a variety of stimuli, including mechanical, thermal, electromagnetic, radiation, chemical, and flow characteristics. They

Fiber Optic Temperature Sensor Price Analysis

Comparative Analysis A comparative analysis of the three types of fiber optic temperature sensors reveals that while fluorescent sensors are generally the most cost-effective for localized

The Challenges and Advantages of Distributed Fiber Optic Strain

The information content of distributed fiber optic strain measurement in reinforced concrete structures can offer tremendous opportunities. Future research should consider all aspects

Contact Us

Continue your research online:

Website: https://cjcconsultants.co.za
Technical inquiry: https://cjcconsultants.co.za/contact.html

This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

© 2026 CJC FIBRE CONSULTANTS - All rights reserved