

Price of Through-beam Fiber Optic Sensors



Overview

Through Beam Fiber Optic Sensors – MouserThrough Beam Fiber Optic Sensors are available at Mouser Electronics. Mouser offers inventory, pricing, & datasheet.

Key Takeaways

Through-beam fiber optic sensors typically cost between \$30 and \$200 per unit, depending on specifications and supplier. Price Range and Factors

The cost of a through-beam fiber optic sensor varies based on several factors:

- Sensor type and design: Standard straight-beam sensors are generally less expensive, while right-angle or specialized designs for tight spaces may cost more .
- Fiber length: Sensors with longer fiber cables (1-2 meters or more) tend to be pricier .
- Material and durability: Stainless steel or nickel-plated copper heads increase durability and resistance to corrosion, which can raise the price .
- Detection range and sensitivity: Sensors capable of detecting very small objects (sub-millimeter) or with long detection distances (up to several meters) are usually more expensive .

- Amplifier requirement: Many through-beam fiber optic sensors require a separate amplifier, which adds to the overall system cost .

Typical Suppliers

- Mouser Electronics: Offers a variety of through-beam fiber optic sensors with datasheets and inventory, suitable for industrial automation .
- Grainger: Provides industrial-grade sensors with fast delivery and support, often used in manufacturing and research .
- ATO and SUCH: Offer CE-certified sensors with adjustable ranges, multiple thread sizes (M3, M4, M6), and durable fiber options .
- Amazon: Lists various fiber optic sensors, though prices vary widely depending on specifications and brand .

Summary

For most industrial applications, expect to pay around \$30-\$200 per sensor, with higher-end models for long-range, high-precision, or harsh-environment use exceeding this range. Additional costs may include amplifiers, mounting hardware, and specialized fiber cables. Choosing the right sensor depends on your detection distance, object size, environmental conditions, and installation constraints.

Article Content

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Fiber Optic Sensors | KEYENCE America

This is a series of fiber optic sensor heads designed to be connected to a fiber optic sensor amplifier. The FU Series offers a wide

FT410 Fiber Optic Sensor,Through-Beam Reflection Fiber Optic,1m

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Fiber optic through beam sensor

Fiber optic through beam sensor E20753 FE-11-EPA-M4/F1x1/2M For installation with limited mounting space Operation as through

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Fiber optic through beam sensor

For installation with limited mounting space Operation as through-beam sensor With
90° deflection of the light beam for use where

FT310 Fiber Optic Sensor,Through-Beam Reflection Fiber Optic,1m

Product description A high-function amplifier and vast array of sensor head options
provide easy solutions for the most challenging

KEYENCE FIBER OPTIC SENSORS | KEYENCE America

Industry Leader KEYENCE fiber optic sensors became the industry standard because
of their high performance and how easy they

Fibre Optic Sensors | KEYENCE UK & Ireland

Fibre optic sensors are compact because the detection circuit is located in the
amplifier, allowing for detection even in narrow

Sick WLL180T Through Beam Fiber Optic Sensor

Solution Point Automation Private Limited - Offering Sick WLL180T Through Beam
Fiber Optic Sensor, Beam Sensor at ₹ 3650/unit

Through Beam Fiber Optic Sensor at ₹ 3000/piece

Sula Automation Systems - Offering Through Beam Fiber Optic Sensor, Fiber Optic
Sensors at ₹ 3000/piece in Pune, Maharashtra.

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

