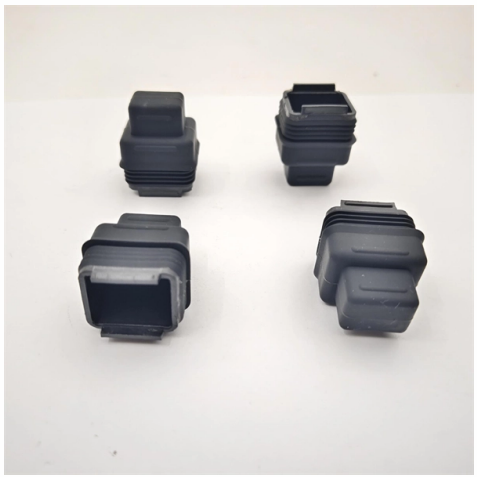
Price List for General-Purpose Fiber Optic Sensors



Overview

Fiber Optic Sensors – MouserMouser offers inventory, pricing, & datasheets for Fiber Optic Sensors. General Purpose Fiber Optic Sensors | Newark Electronic.

Key Takeaways

General-purpose fiber optic sensors typically cost between $50 and $500 per unit, depending on specifications and supplier.

Price Range and Factors

The cost of a general-purpose fiber optic sensor varies based on sensor type, sensitivity, and intended application. Basic point sensors or simple intensity-based sensors are on the lower end, around $50–$150, while more advanced sensors, such as Fiber Bragg Grating (FBG) sensors with higher resolution or multiplexing capabilities, can range from $200 to $500 or more per unit. Additional factors influencing cost include: Interrogator or readout unit: Some sensors require a separate device to interpret signals, which can add several hundred to thousands of dollars to the total system cost.

Multiplexing capability: Sensors that allow multiple sensing points on a single fiber (quasi-distributed or fully distributed systems) may increase the price due to more complex electronics and software. Environmental tolerance: Sensors designed for harsh conditions (high temperature, underwater, or corrosive environments) often cost more than standard models. Supplier and quantity: Bulk purchases or industrial suppliers like Mouser and Newark Electronics may offer discounts, while specialized or custom sensors can be more expensive.

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Summary

For most general-purpose applications, you can expect to pay $50–$500 per sensor, with the lower end suitable for simple monitoring and the higher end for precision measurements or multiplexed systems. When budgeting, also consider the cost of interrogators, connectors, and software, which are often required for full system operation.

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Optical Fiber Sensors Guide

Optical fiber sensors offer attractive characteristics that make them very suitable and, in some cases, the only viable sensing solution. Some of the key attributes of fiber sensors are summarized below.

18 Fiber Optic Sensor Manufacturers in 2026

18 Fiber Optic Sensor Manufacturers in 2026 This section provides an overview for fiber optic sensors as well as their applications and principles. Also, please take a look at the list of 18 fiber optic sensor

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