

How to identify the model number of a fiber optic sensor

Article Overview

The model number of a fiber optic sensor encodes key information about the sensor type, sensing method, fiber head style, environmental resistance, and compatibility with amplifiers.

Overview

Fiber optic sensors consist of two main components: the amplifier (which contains the light source and processing electronics) and the fiber optic sensor head (which transmits and receives light) . Manufacturers use model numbers to convey the specifications and features of these components, allowing users to select the correct sensor for their application.

What Model Numbers Typically Indicate

- **Sensor Type and Amplifier Series** The first part of the model number often identifies the series or family of the sensor, which determines the amplifier type, power output, and general capabilities . For example, a “FU Series” may indicate a specific amplifier and compatible fiber heads.
- **Sensing Method** Model numbers may include codes for the detection method, such as:
 - Through-beam: light passes directly from emitter to receiver
 - Reflective: light reflects off the target back to the sensor
 - Retro-reflective: light reflects off a reflector and returns to the sensor...

Article Content

Dec 30, 2025

Fiber optic sensors and fiber optics | Baumer international

A fiber optic sensor and two fiber optics made of plastic or glass fibers make up a fiber optic system. The sensor contains a light

Jul 09, 2026

(PDF) Optical Fiber Sensors: Working Principle, Applications, and ...

Brief theory of sensing principle, fabrication method, applications, advantages and disadvantages of the different

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Fiber-Optic Sensors Portfolio | wenglor

They consist of a fiber-optic amplifier and fiber-optic cables, which are available with or without optics. This page provides a detailed

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Fiber Optic Sensors: Fundamentals and Applications

Presentation Focus The major focus of this presentation will be on distributive fiber optic sensors which has seen the greatest usage

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Fiber Optic Sensors: Fundamentals, Principles & Applications

Optical Fiber (Transmission Medium, Sensing Element) Light modulated due to interaction with parameter of interest (Measurand)

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Fiber optic sensors

A complete sensor consists of a base unit and a plastic or fiber tube to guide the light, depending on what the application requires.

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Fiber Optic Sensors | KEYENCE America

Fiber optic sensors are compact because the detection circuit is located in the amplifier, allowing for

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Fiber Sensors

Optical fiber is comprised of a central core with a high refractive index surrounded by cladding with a low refractive index. When light

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SimpliFiber® Pro Optical Power Meter and Fiber Test Kits

Whether you require basic fiber verification capabilities, advanced troubleshooting and inspection, or

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Optical Fiber Sensors and Sensing Networks: Overview of the Main ...

Therefore, the integration of optical fiber sensors in WSNs introduces benefits and new capabilities for the design of advanced hybrid

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Digital Fiber Optic Sensor

KEYENCE America provides FS-N40 series; This series is able to detect virtually anything, in any

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Fiber Optic Sensor

Fiber optic sensors are defined as sensing devices that utilize optical fibers to convert lightwave properties into information about the

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Fiber Optic Temperature Sensor DTSX

The DTSX fiber optic temperature sensor, which uses optical fiber for the temperature sensor, quickly detects and locates

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Banner Engineering | Smarter Automation. Better Solutions.

This article explains what fiber optics are and how they work in industrial applications. Learn important terms and the basics of fiber

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Optical Fiber Identifiers Selection Guide: Types, Features ...

Optical fiber identifiers are designed to non-invasively identify continuous-wave signals in fiber optic cables. They are low cost, hand

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Detection sensors

When installation space is extremely limited or the objects to be detected are tiny, fiber-optic sensors are the ideal solution.

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The FOA Reference For Fiber Optics

And the pulling tension applies if the cable is pulled, not in the case of aerial installation like this one. The

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Fiber-optic sensors

Fiber-optic sensors can be operated in the bus system in the same way as contrast and distance sensors. Up to 16 devices can be

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Fiber Optic Sensors - Mouser

Mouser offers inventory, pricing, & datasheets for Fiber Optic Sensors.

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Digital Fiberoptic Sensor

Digital Fiberoptic Sensor FS-N series View Catalog Price Ask an Expert
1-888-539-3623

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FIBER-OPTIC SENSORS

Today, already with over 500 standard, application or customer specific fiber optic sensors, we take pride in working together with

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Fiber Optic Sensors | TRI-TRONICS

Fiber optic sensors are a special type of sensor that uses fiber optic light guides to deliver the light to the sensing position. They work

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Optical fiber

An optical fiber, or optical fibre, is a flexible glass or plastic fiber that can transmit light from one end to

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Optical Fiber Identifiers

NOYES Optical Fiber Identifiers permit network personnel to identify optical fibers without the need to disconnect or cut the fiber and

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Technology of Fiber-Optic Sensors | wenglor

Fiber-optic sensors detect objects and conditions by directing light to a test object and evaluating the intensity change of the

Nov 29, 2025

Fiber Optic Sensors

The BF5 series fiber optic amplifiers are available in single and dual display models. The units feature 5 different response speed

Aug 02, 2025

FIBER-OPTIC SENSORS

Standard cylindrical fiber sensor heads The standard cylindrical fiber optic sensor heads provide reliable object detection, easy

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