

Fiber Optic FU Sensor



AI Overview

The FU Series from KEYENCE is a versatile line of fiber optic sensor units designed for precise detection in industrial automation, offering multiple sensing types, high environmental resistance, and flexible installation options.

Overview The FU Series fiber optic sensors consist of sensor heads (fiber units) connected to a fiber optic sensor amplifier, which contains the light source and processing electronics. The fiber units themselves are used solely to transmit and receive light, allowing detection in tight spaces, harsh environments, or areas where conventional sensors cannot be used. These sensors detect targets by measuring changes in light intensity caused by reflection, refraction, or obstruction of the transmitted light, enabling highly accurate detection even in challenging conditions.

Types of FU Fiber Units The FU Series offers a wide variety of sensing heads to suit different applications:

- Through-beam type:** Light passes directly from emitter to receiver, ideal for precise object detection and long distances.
- Reflective type:** Detects objects by measuring light reflected from the target surface, suitable for small or irregular objects.
- Retro-reflective type:** Uses a reflector to return light to the sensor, effective for detecting objects at a distance or in narrow spaces.
- Definite-reflective type:** Provides long-distance detection with high precision, often used for circuit board or wafer inspection.
- Area detection type (e.g., FU-E40):** Uses an area light to detect targets passing in various positions, minimizing interference from dust or gradual light changes.

Key Features

- Environmental resistance:** Many FU units are resistant to water, chemicals, oil, and high temperatures (up to 350°C / 662°F) for industrial applications.
- Flexible installation:** Thin, compact fibers with stainless steel jackets allow mounting in tight or complex spaces.
- High precision:** Certain models, such as FU-35FZ and FU-35TZ, offer high sensitivity and anti-interference capabilities for harsh environments.
- Long detection distances:** Some units can detect objects up to 900 mm (FU-61) or 1800 mm (FU-71...

Article Content

Fiber-Optic-VOC-Sensor/README.md at main

Fiber Optic VOC Sensor Overview This project presents a low-cost Fiber Optic Volatile Organic Compound (VOC) Sensor developed using Arduino UNO, an LDR (Light Dependent

The international Fiber Optic Low Pressure Sensor market ...

The Fiber Optic Low Pressure Sensor market is experiencing significant growth, driven by the increasing demand for precise pressure measurement in various industries such as oil and gas,

Keyence FS-V1 Fiber Optic Sensor Amplifier 250ms

Keyence FS-V1 Fiber Optic Sensor Amplifier Digital Display 250ms Response The Keyence FS-V1 is a compact fiber optic sensor amplifier from Keyence's FS-V series, designed for use with separate fiber

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Fibre Unit

KEYENCE INTERNATIONAL (BELGIUM) provides FU series; Complete line of fibre units from Unbreakable Fibre, Long-distance and small spot. Select the type best

Distributed Fiber Optic Sensor Global Market Report 2023

Major players in the distributed fiber optic sensor market are AFL, AP Sensing GmbH, Baker Hughes Inc., Bandweaver, Brugg Kable AG, Fotech Solutions Ltd., Future Fiber Technologies

DTSX™ 1 Fiber Optic Heat Detector | Yokogawa America

The DTSX1 is an all-in-one, self-contained fiber optic temperature solution. It protects your equipment and devices against abnormal heat events while being

Definite-reflective model Film Fibre Unit Short Type

FU-F38, Definite-reflective model Film Fibre Unit Short Type, FU series, KEYENCE, Belgium

Significant Growth Anticipated in the Fiber Optic Current Sensor

The dynamic Fiber Optic Current Sensor Market is rapidly evolving as organizations seek to enhance resource utilization and minimize operational costs. Focused on efficiency and

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 variety of options including thru-beam, reflective, retro-reflective and

Fibre Unit

With the addition of the new array sensor, the FU Series can now be used in an even wider range of applications. Simplifies setup and helps reduce installation

High-sensitivity fiber optic pH sensor combining offset splicing and ...

Semantic Scholar extracted view of "High-sensitivity fiber optic pH sensor combining offset splicing and tapered microstructure functionalized with calcium alginate hydrogel" by Shuhan Wang et al.

FU-77G Fiber Optic Sensor for Industrial Object Detection

Place of Origin Japan Brand Name Original Product Type Fiber Optic Sensor Model Number FU-77G Series FU Interface Fiber Optic Communication Protocol Other Module Function Object Detection

Fibre Optic Sensor FU-32 Keyence FU32 *New*

Fibre Optic Sensor FU-32 Keyence FU32 *New* New item not in original packaging

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Definite-reflective Fibre Unit

Definite-reflective Fibre Unit FU-38 *Please note that accessories depicted in the image are for illustrative purposes only and may not be included with the product.

FU-77 (10000) Fiber Optic Sensor Head for Photoelectric Object ...

Place of Origin Japan Brand Name Original Product Type Fiber Optic Sensor Head Model Number FU-77 (10000) Series FU Series Interface Fiber Optic Communication Protocol Other Module Function

FU Series Fibre Sensor Overview | PDF | Optical Fiber

The document provides an overview of the FU Series Fibre Unit Variations, offering a diverse lineup of fibre sensors including thru-beam, reflective, and retro

Fiber optic sensor head

Find out all of the information about the Keyence product: fiber optic sensor head FU series. Contact a supplier or the parent company directly to get a quote or to find

KEYENCE FU-35FA/FU-35FZ/FU-35TZ Compact Beam

These sensors feature coaxial optical fiber devices, free-cutting fibers, and straight-type construction for versatile applications. Engineered for durability with an

Fiber Optic Temperature Sensor DTSX | Yokogawa India

Yokogawa Electric's Fiber Optic Temperature Sensor DTSX solves these problems. Predictive maintenance using fiber optic temperature sensors is now being

Fiber Sensor Digital Fiber Optic Sensor CZ-V1 Keyence

The Keyence CZ-V1 is a digital fiber-optic sensor amplifier unit from KEYENCE Indonesia that utilizes RGB technology to detect color differences with high precision.

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FU-61Z linear reflection fiber optic sensor

FU-61Z linear reflection fiber optic sensor : Amazon : Gewerbe, Industrie & Wissenschaft Wo haben Sie den günstigeren Preis gesehen? Onlineshop-Website Website ...

KEYENCE FU-6F Fiber Optic Sensor New

What's in the box No Product Summary: Vanky Industry KEYENCE FU-6F Fiber Optic Sensor New From Vanky Industry

Ravi-eng17/Fiber-Optic-VOC-Sensor

This project presents a low-cost Fiber Optic Volatile Organic Compound (VOC) Sensor developed using Arduino UNO, an LDR (Light Dependent Resistor), Optical Fiber, and a 16x2 LCD

Contact Us

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