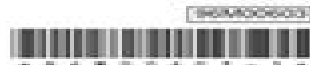


Digital Fiber Sensor FS-N10 Series Instruction Manual



	Danger	Failure to follow these instructions may lead to death or serious injury.
	Warning	Failure to follow these instructions may lead to injury.
	Caution	Failure to follow these instructions may lead to product damage (product malfunction, etc.)

Note Provides additional information on proper operations that can be easily mistaken.

This provides tips about situations in which the feature being described is useful.

See "FS-N10 Series User's Manual" for details on the features of the FS-N10 series and detailed instructions for configuration.

Hints on Correct Use

	Warning	- This product is used to detect targets. Do not apply the product to safety circuits for human protection. - This product is not of explosion-proof construction. Do not use the products in places with flammable gas, liquid, or dust. - This product is a sensor of DC power supply type. Do not apply AC power. The product may explode or burn if an AC voltage is applied.
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- Do not wire the amplifier line along with power lines or high-tension lines, otherwise the sensor may malfunction or receive damage due to noise.
- When using a commercially available switching regulator, ground the frame ground terminal and ground terminal.
- Do not use the FS series outdoors, or in a place where extraneous light can enter the light-receiving surface directly.
- Due to the individual dispersion of characteristics and the difference in fiber unit model, the maximum sensing distance or displayed value of all the units are not the same.
- If the sensor is used in S-APC mode for a long time, the LED indicators will be imposed with a heavy load. In this case, the sensor will be automatically set to MCC mode where the current consumption of the sensor for light emission will be constant, and "END-APC" will be displayed. The sensor can be continuously used in this case. Replace the sensor, however, if highly precise detection is required.

About UL Certification

The FS-N1 series is UL and C-UL certified, and is compliant with the UL and CSA standards.

- Applicable standards: UL508 Industrial Control Equipment, CAN/CSA C22.2 No. M4-M65 Industrial Control Equipment
- UL File No. E361717
- UL categories: RPLCPL, RPLCPLT
- Enclosure Type 1 (based on UL50 standard)

Notes on UL Certification

- The power source used with the FS-N1 series must be UL Listing certified for Class 2 output as regulated by ICS National Electric Code (NEC) Article 90.
- Connect the FS-N12 and N14 to the FS-N11 and N13 main units for use.

Included accessories

- Instruction Manual 1 pc.
- Fiber cutter 1 pc.

FS-N10 Series Quick Start and Cabling

Quick Start



- *1 This is a channel switch on 2-output types.
*2 Press and hold the [MODE] button to make advanced settings.

Cabling

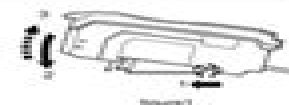
Note See page 4 for information about connecting to external devices other than the FS-N10 UA.



Mounting Unit

Mounting on a DIN Rail

- Align the claw at the bottom of the main body with the DIN rail, as shown in figure 1. While pushing the main body in the direction of the arrow 1, slide it in the direction of the arrow 2.
- To dismount the sensor, raise the main body in the direction of the arrow 3 while pushing the main body in the direction of the arrow 1.



Installation on a Wall (Main Unit Only)

- Attach the unit to the optional mounting bracket (OP-73660), mount them together, and secure them with two M2 screws as shown in figure 2.



Connecting Fiber Unit

- Open the dust cover in the direction shown by arrow 1.
- Move down the fiber lock lever in the direction shown by arrow 2.
- Insert a fiber unit into the fiber insertion hole to a length of the fiber insertion hole (i.e., approximately 14 mm).
- Move down the fiber lock lever in the direction shown by arrow 4.



Note If a thin fiber unit is used, an adapter provided with the thin fiber unit will be required. Unless the correct adapter is connected, the thin fiber unit will not detect targets correctly (the adapter is supplied with the fiber unit).

Cable outer dia.	Adapter	Appearance
φ 1.3	Adapter A (OP-24500)	
φ 1.0	Adapter B (OP-24501)	

- To connect the coaxial reflective type fiber unit to the amplifier, connect the single-core fiber to the transmitter side, and connect the multiple-core fiber to the receiver side.



Keyence Instruction Manual

**Xin-She Yang, Simon Sherratt, Nilanjan
Dey, Amit Joshi**

Keyence Instruction Manual:

Manufacturing Science and Technology, ICMST2011 Wu Fan, 2011-11-22 Selected peer reviewed papers from the 2011 International Conference on Manufacturing Science and Technology ICMST 2011 September 16 18 2011 Singapore

Model Predictive Vibration Control Gergely Takács, Boris Rohal-Ilkiv, 2012-03-14 Real time model predictive controller MPC implementation in active vibration control AVC is often rendered difficult by fast sampling speeds and extensive actuator deformation asymmetry If the control of lightly damped mechanical structures is assumed the region of attraction containing the set of allowable initial conditions requires a large prediction horizon making the already computationally demanding on line process even more complex Model Predictive Vibration Control provides insight into the predictive control of lightly damped vibrating structures by exploring computationally efficient algorithms which are capable of low frequency vibration control with guaranteed stability and constraint feasibility In addition to a theoretical primer on active vibration damping and model predictive control Model Predictive Vibration Control provides a guide through the necessary steps in understanding the founding ideas of predictive control applied in AVC such as the implementation of computationally efficient algorithms control strategies in simulation and experiment and typical hardware requirements for piezoceramics actuated smart structures The use of a simple laboratory model and inclusion of over 170 illustrations provides readers with clear and methodical explanations making Model Predictive Vibration Control the ideal support material for graduates researchers and industrial practitioners with an interest in efficient predictive control to be utilized in active vibration attenuation

Intelligent Computing and Optimization Pandian Vasant, Mohammad Shamsul Arefin, Vladimir Panchenko, J. Joshua Thomas, Elias Munapo, Gerhard-Wilhelm Weber, Roman Rodriguez-Aguilar, 2023-12-18 This book of Springer Nature is another proof of Springer's outstanding greatness on the lively interface of Holistic Computational Optimization Green IoTs Smart Modeling and Deep Learning It is a masterpiece of what our community of academics and experts can provide when an interconnected approach of joint mutual and meta learning is supported by advanced operational research and experience of the World Leader Springer Nature The 6th edition of International Conference on Intelligent Computing and Optimization took place at G Hua Hin Resort Mall on April 27 28 2023 with tremendous support from the global research scholars across the planet Objective is to celebrate Research Novelty with Compassion and Wisdom with researchers scholars experts and investigators in Intelligent Computing and Optimization across the globe to share knowledge experience and innovation a marvelous opportunity for discourse and mutuality by novel research invention and creativity This proceedings book of the 6th ICO 2023 is published by Springer Nature Quality Label of Enlightenment

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body surface tissue is presented Subsequently results of finite element analysis are used together with experimental data to evaluate rheological properties of not only human skin but skeletal joints as well Methodology of development of MOEMS displacement pressure sensor and adaptation for real time biological information monitoring namely ex vivo and in vitro blood pulse type analysis is described Fundamental and conciliatory investigations achieved knowledge and scientific experience about biologically adaptive multifunctional nanocomposite materials their properties and synthesis compatibility periodical microstructures which may be used in various optical components for modern productive sensors formation technologies and their application in medicine pharmacy industries and environmental monitoring are presented and analyzed This book also is aimed at research and development of vibrational energy harvester which would convert ambient kinetic energy into electrical energy by means of the impact type piezoelectric transducer The book proposes possible prototypes of devices for non invasive real time artery pulse measurements and micro energy harvesting Winter Annual Meeting American Society of Mechanical Engineers, **Optomechatronic Sensors and Instrumentation** ,2005

Regional Conference on Science, Technology and Social Sciences (RCSTSS 2014) Nor Azizah Yacob,Mesliza Mohamed,Megat Ahmad Kamal Megat Hanafiah,2016-03-24 This book gathers selected science and technology papers that were presented at the 2014 Regional Conference of Sciences Technology and Social Sciences RCSTSS 2014 The bi annual Conference is organized by Universiti Teknologi MARA Pahang Malaysia The papers address a broad range of topics including architecture life sciences robotics sustainable development engineering food science and mathematics The book serves as a platform for disseminating research findings as a catalyst to inspire positive innovations in the development of the region The carefully reviewed papers in this volume present research by academicians of local regional and global prominence Out of more than 200 manuscripts presented at the conference by researchers from local and foreign universities and institutions of higher learning 64 papers were chosen for inclusion in this publication The papers are organized in more than a dozen broad categories spanning the range of scientific research Engineering Robotics Mathematics Statistics Computer Information Technology Forestry Plantation Agrotechnology Sports Science Recreation Health Medicine Biology Physics Food Science Environment Science Management Sustainable Development Architecture The book provides a significant point of reference for academics researchers and students in many fields who need deeper research

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