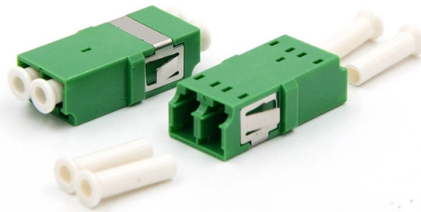


Wiring of FX-101 Digital Fiber Optic Sensor



Article Overview

The FX101 Digital Fiber Optic Sensor is wired by connecting the fiber optic cable to the amplifier input, supplying 10–30V DC, and wiring the NPN output to the PLC input with a common ground.

Fiber Optic Cable Connection

- Insert the fiber cables into the amplifier: the beam-emitting fiber goes into the "P" inlet and the beam-receiving fiber into the "D" inlet. Ensure the fibers are fully seated until they stop, then lock the lever to secure them. Incorrect insertion can reduce sensing performance .
- Avoid bending the fiber excessively, as this can degrade signal quality .
- Check fiber compatibility: standard reflective or diffuse sensors are generally supported, but verify wavelength specifications for optimal performance .

Electrical Wiring

- Power Supply: Connect a DC voltage of 10–30V to the amplifier's power terminals. Ensure polarity is correct to avoid damage .
- NPN Output Wiring: Connect the NPN output terminal of the FX101 to the input channel of your PLC or controller. The current flows from the load to ground when active .
- Common Ground: Connect the amplifier's 0V terminal to the controller's 0V to complete the circuit and ensure proper signal reference .
- Optional External Input: Some models allow teaching or threshold adjustment via external input; refer to the amplifier manual for configuration

Article Content

Jul 25, 2026

FX-101P-Z

Panasonic [FX-101P-Z], Digital Fiber Sensor FX-100, Part number detail page. Detailed specification of is

Oct 28, 2025

PANASONIC FX101

In case of using sensing devices for personnel protection, use products which meet laws and standards, such as OSHA, ANSI or IEC

Mar 29, 2026

Photoelectric Sensor FX-100 FX-101 Instruction Manual | Manualzz

The manual covers details on mounting, wiring, setting, and using the sensor. It incorporates several features such as light-ON/Dark

Oct 07, 2025

Panasonic digital fiber optic sensor FX-101-CC2 Optical Proximity ...

Sensor360 provides professional information on the PANASONIC DIGITAL FIBER OPTIC SENSOR FX-101-CC2 optical proximity

Mar 31, 2026

Panasonic FX-101P Instruction Manual online

inlet " P" and the multi-core ber cable into the beam-receiving inlet "D." If they are inserted in reverse, the sensing performance will

May 29, 2026

FX101PZ PANASONIC, Fiber Optic Sensor, FX-100 Series, Standard

Buy FX101PZ - PANASONIC - Fiber Optic Sensor, FX-100 Series, Standard Type. Farnell® UK offers fast quotes, same day

Oct 31, 2025

FX-500 Series Instructions

Instructlons Digital Fiber Sensor Amplifier FX-501, FX-502, FX-505 -C2 Series Thank you for purchasing products from Panasonic

Oct 03, 2025

PANASONIC FX-100-Z SERIES INSTRUCTION MANUAL Pdf Download

View and Download Panasonic FX-100-Z Series instruction manual online. Digital Fiber Sensor. FX-100-Z Series accessories pdf

Feb 06, 2026

Digital Fiber Sensor FX-100 series INSTRUCTION MANUAL

2) With the coaxial reflective type fiber, such as, FD-42G or FG-32G, insert the single-core fiber cable into the beam-emitting inlet "P"

Sep 02, 2025

SUNX FX-100 Series Digital Fiber Sensors Instruction Manual

Please read this Instruction Manual carefully and thoroughly for the correct and optimum use of this product. Kindly keep this

Jun 13, 2026

DIGITAL FIBER SENSOR

FX-100 FX-101(Standard type) FX-102(Long sensing range type) New possibilities with digital fiber sensors. The FXseries is a

May 03, 2026

FX-101 Panasonic Industrial Automation | Mouser

FX-101 Panasonic Industrial Automation Fiber Optic Sensors FIBER SENSOR, STANDARD, STANDARD, NPN OUTPUT datasheet,

Dec 03, 2025

SUNX FX-101 INSTRUCTION MANUAL Pdf Download

1. Snap the fiber lock lever down, till it stops completely. 2. Insert the fiber cables slowly into the inlets

Feb 25, 2026

Panasonic FX-101 user manual PDF, specs & support

Panasonic FX-101 Digital Fiber Sensor User manual in PDF, technical specifications, troubleshooting tips and community Q&A for

May 11, 2026

FX-101-CC2 | Digital Fiber Sensor FX-100

Spec Detail Digital Fiber Sensor FX-100 As of April 13, 2023 Specifications and design of the products are subject to change without

Aug 05, 2025

FX-101-CC2

Panasonic [FX-101-CC2], Digital Fiber Sensor FX-100, Part number detail page. Detailed specification of is

May 13, 2026

Digital Fiber Sensor FX-100-Z FX-101-Z, FX-102-Z, FX-101P-Z

Instruction Manual for Digital Fiber Sensor FX-100-Z FX-101-Z, FX-102-Z, FX-101P-Z, FX-102-PZ. Discover features, mounting,

Jan 10, 2026

Panasonic FX-101 Standard-Type Digital Fiber Optic Amplifier

Panasonic FX-101 Standard-Type Digital Fiber Optic Amplifier - NPN Panasonic (formerly Sunx) Digital Fiber Optic Amplifier 12 to 24

Oct 21, 2025

Digital Fiber Sensor FX-100 SERIES

In addition, the optical communication function is not equipped on the FX-100 series, so it is unable to perform interference

May 19, 2026

FX-101-Z□Digital Fiber Sensor FX-100

Panasonic [FX-101-Z], Digital Fiber Sensor FX-100, Part number detail page. Detailed specification of is here.

Jun 16, 2026

FX-101 PANASONIC

PANASONIC FX-101 | Sensor: optical fiber amplifier; NPN; Connection: connectors - This product is available in Transfer Multisort

Contact Us

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