

# Function of e3x Fiber Optic Sensor



## Overview

The Smart Fiber Sensor E3X-HD series is designed to detect the presence or absence of a workpiece using light. The sensor uses a fiber optic cable to transmit and receive light, making it ideal for use in applications where there is a lot of dust or dirt. Exceptionally easy operation and stabilizing technology reduce maintenance cost. 12 to 24 VDC  $\pm 10\%$ , ripple (P-P) 10% max. (Current consumption: 26 mA max. At load. Set to this mode to adjust the light axis. Page 1 Auto-Tuning Fiber-Optic Sensor E3X-N High Performance DC Amplifier with Pushbutton Sensitivity Adjustment Maintenance is made easier with pushbutton sensitivity adjustment Sensing distance is up to 100% longer than standard amplifiers Choose either single channel or four channel models. Amplifier Units and Connectors are sold separately. Note: Use the E3X-MC11-S Mobile Console for the E3X-DA-S-series Amplifier Units. Load. Below you will find brief information for Smart Fiber Sensor E3X-HD11, Smart Fiber Sensor E3X-HD6, Smart Fiber Sensor E3X-HD14, Smart Fiber Sensor E3X-HD41, Smart Fiber Sensor E3X-HD8, Smart Fiber Sensor E3X-HD44. Wire colors and functions are indicated: Brown for DC 12-24V, Black for Output, Blue for 0V.

## Article Content

Oct 27, 2025

E3X-HD Smart Fiber Sensor/Manual

Smart Fiber Sensor Surprisingly Stable Detection with Your Finger tip. Exceptionally easy operation and stabilizing technology reduce maintenance cost.

May 25, 2026

Smart Fiber Sensor E3X-HD Series Instruction Sheet | Manualzz

Download the Smart Fiber Sensor E3X-HD series instruction sheet, find answers to your questions, or learn how to use this sensor for detecting the presence or absence of workpieces. The sensor uses ...

Nov 01, 2025

E3X-NA Datasheet

In addition to the operation indicator (orange), E3X-NA has in-dicators that denotes the incident level (4 green and 1 red in-dicators). Use them for optical axis adjustment and maintenance.

Mar 29, 2026

OMRON E3X-N MANUAL Pdf Download | ManualsLib

Its main purpose is to achieve the maximum gain. If the customer finds difficulty in this method or maximum gain is not required, align the cables in RUN mode (as normal) using the output indicator ...

Feb 12, 2026

E3X 8.01 for PDF

With this function, the E3X checks changes in environment conditions (especially a change in the ambient temperature) and self-diagnoses the resistance against the changes.

Feb 24, 2026

E3X-DA-S Datasheet

When set to the maximum sensitivity setting, internal light reflection may cause the sensor to detect incident light. In such case, use adjust the threshold either manually or using teaching.

Sep 27, 2025

Auto-Tuning Fiber-Optic Sensor E3X-N

Auto-Tuning Fiber-Optic Sensor E3X-N High Performance DC Amplifier with Pushbutton Sensitivity Adjustment Maintenance is made easier with pushbutton sensitivity adjustment Sensing distance is ...

Jun 10, 2026

OMRON E3X-HD Series Smart Fiber Sensor User Manual

This manual provides installation, setup, and operational guidance for the OMRON E3X-HD Series Smart Fiber Sensor. It covers wiring, mounting, tuning procedures, and troubleshooting...

Jun 13, 2026

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When mounting a coaxial reflective Fiber Unit, insert the single-core Fiber Unit to the upper hole (Emitter side) and the multi-core Fiber Unit to the lower hole (Receiver side).

Jul 01, 2025

E3X-HD Smart Fiber Sensor/Specifications

The communications function and mutual interference prevention function are disabled when the detection mode is set to Super-high-speed mode (SHS). When including E3X-DA-S with ...

Jul 18, 2025

E3X-DA\_-S Instruction Manual

Indicates a potentially hazardous situation which, if not avoided, May result in minor or moderate injury or in property damage. Do not use it exceeding the rated voltage. There is a possibility of failure and ...

## Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://professionistidelverde.it>

Email: [info@professionistidelverde.it](mailto:info@professionistidelverde.it)

Phone: +49 176 4829 3715

Address: Friedrichstraße 123, 10117 Berlin, Germany

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