

installation when starting production.

Fiber Amplifier Units with easy optimum setting

Stable

Fiber Units E32

06
Page



“Expanded Application Response Capabilities”

Improved Basic Performance

Improvements in the sensing distance and minimum sensing object increase the range of application for stable detection.

1.5 Times
the Sensing Distance*

6 m

For E32-LT11 Fiber Unit with a fiber length of 3.5 m

1/10th
the Minimum Sensing Object*

0.3 μm dia.

Typical example of actual measurements with E32-D11R Fiber Unit.

*Compared to E3X-HD.

NEW

Sensor Communications Units E3NW

EtherCAT

CompoNet

CC-Link V2

62, 64
Page

Sensor

Minimal Cost Process.

Basic Features of Fiber Sensors

Ideal for narrow spaces or for detecting minute objects.



Digital display achieves visual control and quantitative control.

Conventional Photoelectric Sensor with Built-in Amplifier

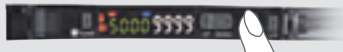
Set the threshold by a sensitivity adjuster / Check the operation by an indicator.



- Ambiguous standard (e.g., 3/4 turn of adjuster)
- Indicator does not show the present value.

Fiber Sensor

Quantitative control over threshold settings with a digital display.



- The reference value can be set numerically for easier specification.
- Easily perceivable present value.

Selection by Category

STEP 1

Select a Fiber Unit.

Select a category.
Fiber Unit Index **05** Page

Select a model.
Category Pages **06 to 61** Page

STEP 2

Select a Fiber Amplifier Unit and Communications Unit.

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STEP 3

Select Accessories of Fiber Amplifier Unit

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Before Selecting Fiber Units

The Fiber Units specifications give the sensing distance when the Fiber Unit and Fiber Amplifier Unit is combined. Check the Fiber Amplifier Unit series for easier selection.

<Specifications on Each Fiber Unit Category Page>



Fiber Amplifier Unit Series

| | | E3X-HD Series | E3NX-FA Series NEW |
|-------------------------------------|--|---|--|
| Fiber Amplifier Unit specifications | Output | 1 output | 1 or 2 outputs (depending on the model) |
| | External input | Not supported | Supported or not supported (depending on the model) |
| | Response time | 50 μs (55 μs)/250 μs/1 ms/16 ms (Default: 250 μs) | 30 μs (32 μs)/250 μs/1 ms/16 ms (Default: 250 μs) |
| | Sensing distance (Giga-power mode) | E32-T11R: 2,000 mm E32-D11R: 840 mm | 3,000 mm 1,260 mm |
| | Minimum sensing object | E32-T11R: 5 μm dia. | 2 μm dia. |
| Sensor Communications Unit | Communications method (Sensor Communications Unit model) | EtherCAT (E3X-ECT) CompoNet (E3X-CRT) | EtherCAT (E3NW-ECT) CompoNet (E3NW-CRT) CC-Link (E3NW-CCL) |
| Unit application | Applicable Sensors | Fiber Sensor (E3X-HD0) Fiber Sensor (E3X-MDA0) Laser Photoelectric Sensor (E3C-LDA0) Proximity Sensor (E2C-EDA0) | Fiber Sensor (E3NX-FA0) Laser Sensors (E3NC-LA0, E3NC-SA0) Contact-Type Sensor (E9NC-TA0)* |
| Page listings | Ordering Information | 78 Page | 64 Page |
| | Ratings and Specifications | 80 Page | 66 Page |
| | Dimensions | 80 Page | 68 Page |

* E3NW-CRT Sensor Communications Units (CompoNet) cannot be used.

Selection by Model

STEP 1

Search for the page in the model index.

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STEP 2

Search for the model on the corresponding pages.

Each Page