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*	1/10th the Minimum Sensing Object*
6 m	0.3 μm dia.
For E32-LT11 Fiber Unit with a fiber length of 3.5 m	Typical example of actual measurements with E32-D11R Fiber Unit.

*Compared to E3X-HD.

NEW

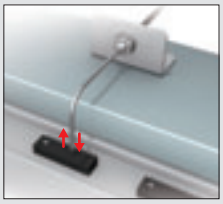
Sensor Communications Units
E3NW

EtherCAT
CompoNet
CC-Link V2

62, 64 Page

Basic Features of Fiber Sensors

Ideal for narrow spaces or for detecting minute objects.



Digital display achieves visual control and quantitative control.

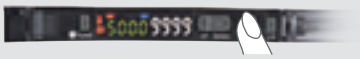
Conventional Photoelectric Sensor with Built-in Amplifier

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.

Sensor

Minimal Cost Process.

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. 62 Page

STEP 3

Select Accessories of Fiber Amplifier Unit 65,79 Page

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	3,000 mm
		E32-D11R	840 mm	1,260 mm
	Minimum sensing object	E32-T11R	5 µm dia.	2 µm dia.
Sensor Communications Unit application	Communications method (Sensor Communications Unit model)		EtherCAT (E3X-ECT) CompoNet (E3X-CRT)	EtherCAT (E3NW-ECT) CompoNet (E3NW-CRT) CC-Link (E3NW-CCL)
	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. 98 Page

STEP 2

Search for the model on the corresponding pages. Each Page