Smart Fiber Amplifier Unit
E3X-HD

CSM_E3X-HD_DS_E_7_2

Easy and optimum settings for anyone
Smart Fiber Amplifier Unit with Long-term Stable Detection

- Equipped with Smart Tuning, which automatically configures the settings to their optimum values with the press of a single button.
- Highly usable design enables anyone to configure the settings easily.
- Detects dirt, vibrations, and LED deterioration, and automatically compensates the incident level and the light intensity.
- Unparalleled best-in-class power provides stable detections for low-reflective workpieces and large workpieces (equipped with GIGA RAY II).

Refer to the *Fiber Sensors Technical Guide* and *Safety Precautions* on page 9.

For the most recent information on models that have been certified for safety standards, refer to your OMRON website.

Features

Easy

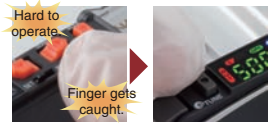
Greater operability and visibility are realized by a universal design

Operations

Symbolic buttons are easy to remember anywhere even for operators overseas.

Compatibility for easy operation and incorrect operation prevention.

Pleasing operation even with gloves on.



Conventional Models: Sliding switches

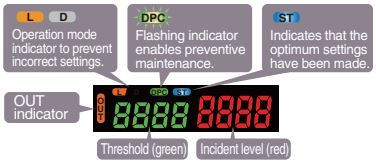
E3X-HD: Pushbutton switches (no sliding switches)

Arc Design

A strong accent line gives a compact look to improve equipment design

Indications

Visibility is improved with digital displays and visible indicators.
New Concept: Visible Indicators

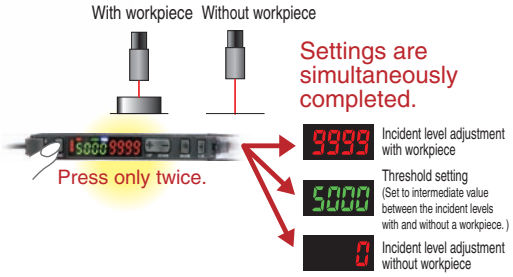


Smart Tuning

Smart tuning for the optimum settings with just one button.

Smart Tuning

Automatically configure the settings to their optimum values with the press of a single button.

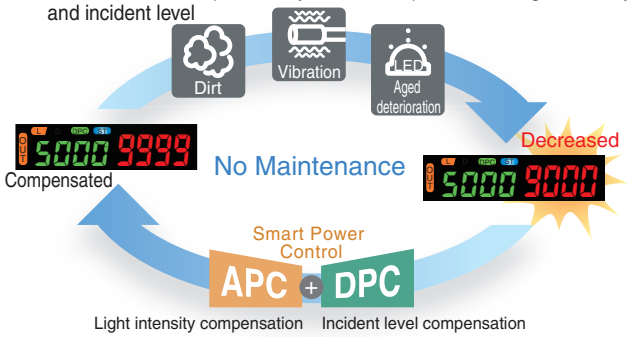


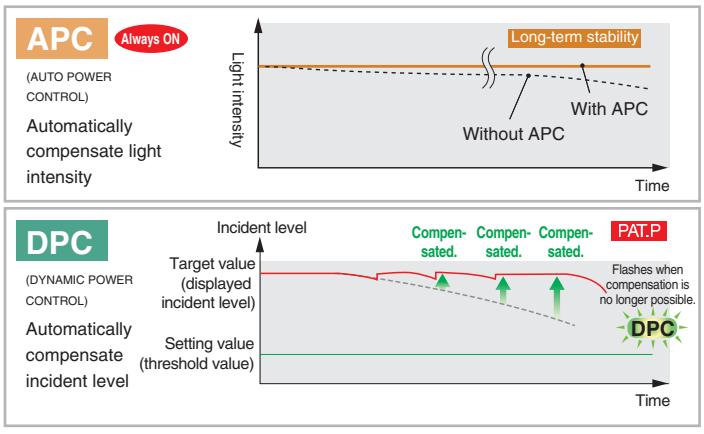
Stable

Long-term stable detection with no maintenance

Smart Power Control

Maintenance-free operation by double compensation of light intensity and incident level





Ordering Information

Fiber Amplifier Units

Standard models (Dimensions ➜ page 12)

Appearance	Connecting method	Models	
		NPN output	PNP output
	Pre-wired (2 m)	**E3X-HD11 2M**	**E3X-HD41 2M**
	Wire-saving Connector	**E3X-HD6**	**E3X-HD8**
	M8 Connector	**E3X-HD14**	**E3X-HD44**

Model for Sensor Communications Unit (Dimensions ➜ page 12)

Appearance	Model	Applicable Sensor Communications Unit
	E3X-HD0	**E3X-ECT**
		E3X-CRT

Accessories (sold separately)

Wire-saving connectors (Required for models for Wire-saving Connectors.)

Connectors are not provided with the Fiber Amplifier Unit and must be ordered separately. * Protective stickers: provided.

Type	Appearance	Cable length	Number of conductors	Models
Master Connector		2 m	3	**E3X-CN11**
Slave Connector			1	**E3X-CN12**

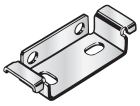
Sensor I/O Connectors (Required for models with M8 Connectors.)

Connectors are not provided with the Fiber Amplifier Unit and must be ordered separately.

Size	Cable	Appearance	Cable type		Models
M8	Standard	Straight	2 m	4-wire	**XS3F-M421-402-A**
			5 m		**XS3F-M421-405-A**
		L-shaped	2 m		**XS3F-M422-402-A**
			5 m		**XS3F-M422-405-A**

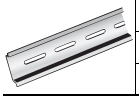
Mounting Bracket

A Mounting Bracket is not provided with the Fiber Amplifier Unit and must be ordered separately as required.

Appearance	Model	Quantity
	**E39-L143**	1

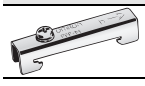
DIN Track

A Din Track is not provided with the Fiber Amplifier Unit and must be ordered separately as required.

Appearance	Type	Models	Quantity
	Shallow type, total length: 1 m	**PFP-100N**	1
	Shallow type, total length: 0.5 m	**PFP-50N**	
	Deep type, total length: 1 m	**PFP-100N2**	

End Plate

Two End Plates are provided with the Sensor Communications Unit.
End Plates are not provided with the Fiber Amplifier Unit and must be ordered separately as required.

Appearance	Model	Quantity
	**PFP-M**	1