

Easy and Reliable

The Fiber Amplifier Unit That Sees in Color

- High-power white LED and multi-RGB processing eliminate the need to select light source (wavelength) types.
- One-touch teaching enables stable detection that resists against workpiece vibration.
- Choose from a wide range of Fiber Heads to match the workpiece and working space.



Refer to *Safety Precautions* on page 10.

Features

Easy and Reliable ... Featuring a Color-sensing Engine

A high-power white LED and a multi-RGB processing system combine to cover all RGB wavelengths, enabling easy and accurate detection of workpieces without having to use a different light source to watch each one.

No Need to Select



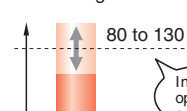
Colors are detected through changes in the ratio of three parameters, RGB, to enable stable detection even when the workpiece moves.

Intensity Detection
(Previous Type)

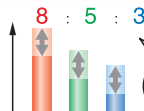
Color Detection
(Color Sensing Type)

Not Affected by Movement

Incident Light Intensity



RGB Ratio



Easy and Reliable ... Ease of Use and Smart Functions

In addition to ensuring easy use, we have added a number of smart functions, such as remote control to simplify setup, and twin sensing and output to simultaneously distinguish two registered colors. (advanced models)

Wide Range of Fiber Heads Available

Select from a wide range of Fiber Heads to match the workpiece and working space.



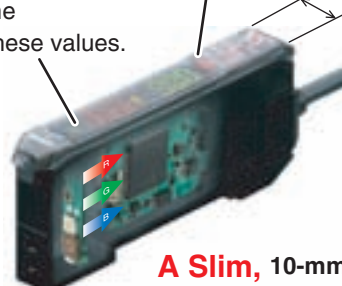
Easy-to-Understand Double Display

Immediately check the degree of match with the registered colors and the thresholds or easily make fine adjustment while checking these values.

Easy Setting with One-push Teaching

Settings to teach the workpiece to be detected can be easily performed with one push.

10 mm



First in Its Class

Reliable Setting guide function.

This function guides the user to ensure that the workpiece is in an appropriate position for teaching. (Indicates OVER, OK, or LOW.)

A Slim, 10-mm-wide Amplifier

Use of a white LED and a one-package RGB light-receiving element results in a slim Amplifier.

Ordering Information

Fiber Amplifier Unit

Pre-wired Amplifier Units [Refer to *Dimensions* on page 13.]

Item	Appearance	Functions	Model	
			NPN output	PNP output
Standard models		Timer, Response speed change	E3X-DAC11-S 2M	E3X-DAC41-S 2M
Advanced models with simultaneous 2-color determination		Standard models + Simultaneous 2-color determination AND/OR output, Remote setting	E3X-DAC21-S 2M	E3X-DAC51-S 2M
Advanced models with 4-color determination *		Standard model + 4-color determination AND/OR output, Bank switching	E3X-DAC21B-S 2M	E3X-DAC51B-S 2M

*Four-color determination is enabled by using an external input to switch between banks for two outputs.

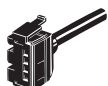
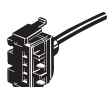
Amplifier Units with Connectors (Amplifier Unit Connectors must be ordered separately.) [Refer to *Dimensions* on page 15.]

Item	Appearance	Functions	Model	
			NPN output	PNP output
Standard models		Timer, Response speed change	E3X-DAC6-S	E3X-DAC8-S

Accessories (Order Separately)

Amplifier Units Connectors (Required for models for Wire-saving Connectors.)

Note: Protector seals are provided as accessories. [Refer to *Dimensions* on page 15.]

Item	Appearance	Cable length	No. of conductors	Model
Master Connector		2 m	3	E3X-CN11
Slave Connector			1	E3X-CN12

Ordering Precautions for Amplifier Units with Connectors

A Connector is not provided with the Amplifier Unit. Refer to the tables at the right when placing an order.

Fiber Amplifier Units			Applicable Connector (Order Separately)	
Model	NPN output	PNP output	Master Connector	Slave Connector
Standard models	E3X-DAC6-S	E3X-DAC8-S	E3X-CN11	E3X-CN12

When Using 5 Amplifier Units

Fiber Amplifier Units (5 Units)	+	1 Master Connector	4 Slave Connectors
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Mounting Bracket

A Mounting Bracket is not provided with the Fiber Amplifier Unit. Order a Mounting Bracket separately if required.

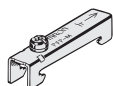
[Refer to *E39-L/F39-L/E39-S/E39-R*.]

Appearance	Model	Quantity
	E39-L143	1

End Plate

End Plates are not provided with the Fiber Amplifier Unit. Order End Plates separately if required.

[Refer to *PFP-□*.]

Appearance	Model	Quantity
	PFP-M	1