

**Discontinuation Notice of E3X-DA-N series (partially).****Product Discontinuation**

Digital Fiber Amplifier

**Model E3X-DA-N series  
(partially)****Recommended Replacement**

Smart Fiber Amplifier Unit

**Model E3X-HD series  
(Model E3NX-FA series)**There are some models which have no  
recommended replacement.**[ Discontinuation date ]**

The end of March, 2017

**[ Caution on recommended replacement ]**

- 1) Optical communication to E3X-DA-N/NA/SD series is not available. Notice that channel recognition and Mutual interference prevention is not available at communication status.
- 2) Mobile console E3X-MC11 is not available.
- 3) The Communication Unit E3X-DRT21, E3X-SRT21 and E3X-CIF11 cannot be connected.
- 4) When using Fiber head E32-D61/D73/D81R/T61/T81R/T84S (D81R/T61/T81R/T84S are discontinued) series, notice that the pitch between deliver and receiver hole is different compared with E3X-HD series, and installation is unavailable. Please also change the Fiber head to the following types.  
E32-D61-S/D73-S/D81R-S/T61-S/T81R-S/T84S-S series

Please inquire to our salesperson about the in-depth contents.

**[ Difference from discontinued product ]**

Recommended replacement Model	Body Color	Dimensions	Wire connection	Mounting Dimensions	Characteristics	Operation ratings	Operation methods
Model E3X-HD series	*	--	**	**	*	*	*
Model E3NX-FAseries	*	--	**	**	*	*	*

\*\* : Compatible

\* : The change is a little/Almost compatible









-- : Not compatible

- : No corresponding specification

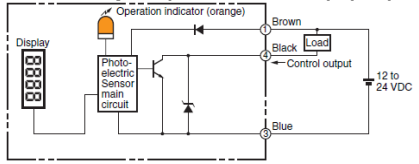
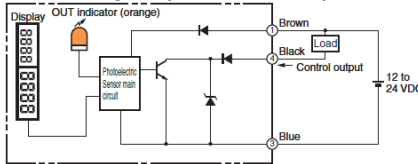
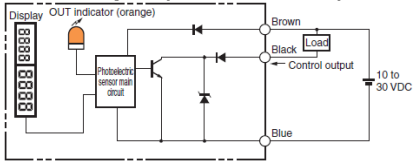
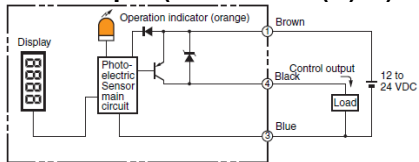
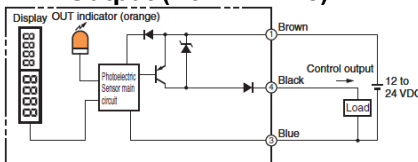
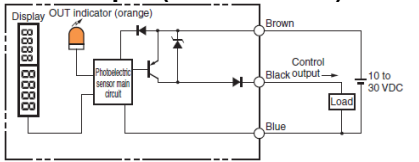
**[ Product Discontinuation and recommended replacement ]**

<b>Product discontinuation</b>	<b>Recommended replacement</b>
E3X-DA11D 2M	E3X-HD11 2M
E3X-DA11-N 0.5M	E3X-HD11 2M
	E3NX-FA11 2M
E3X-DA11-N 2M	E3X-HD11 2M
	E3NX-FA11 2M
E3X-DA11-N 5M	E3X-HD11 5M
	E3NX-FA11 5M
E3X-DA41D 2M	E3X-HD41 2M
E3X-DA41-N 2M	E3X-HD41 2M
	E3NX-FA41 2M
E3X-DA6	E3X-HD6
	E3NX-FA6
E3X-DA6D	E3X-HD6
E3X-DA8	E3X-HD8
	E3NX-FA8
E3X-DA8D	E3X-HD8
E3X-DA11-N-6 2M	No recommended replacement
E3X-DA11-N-C1	No recommended replacement
E3X-DA11-N-ECON 0.3M	No recommended replacement
E3X-DA11-N-M1J 0.3M	No recommended replacement
E3X-DA11-N-R 2M	No recommended replacement
E3X-DA6-6	No recommended replacement
E3X-DA6-P	No recommended replacement
E3X-DAS8	No recommended replacement
E3X-RM1-1	No recommended replacement
E3X-RM1-2	No recommended replacement

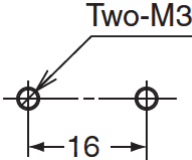
[ Body color ]

Product discontinuation Model E3X-DA-N series	Recommendable replacement 1 Model E3X-HD series	Recommendable replacement 2 Model E3NX-FA series
 <p>Sensor: black Cover printing: orange Case: black (no printing lable)</p>	 <p>Sensor: black Cover printing: silver Case: nameplate with silver printing</p>	 <p>Sensor: black Cover printing: silver Case: nameplate with silver printing</p>
<p><b>Operation panel</b></p>  <p>7-seg display: red Operation button: orange Operation panel printing: orange</p>	 <p>7-seg display: green + orange Operation button: black Operation panel printing: white</p>	 <p>7-seg display: green + white Operation button: black Operation panel printing: white</p>
<p><b>Cable</b></p>  <p>Dark grey</p>	 <p>Black</p>	

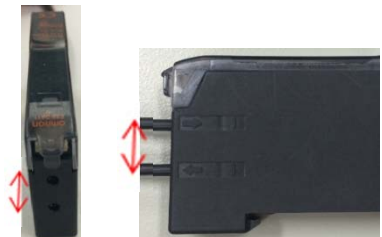

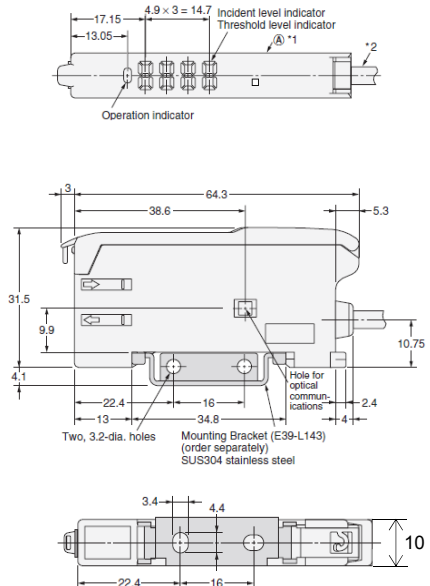
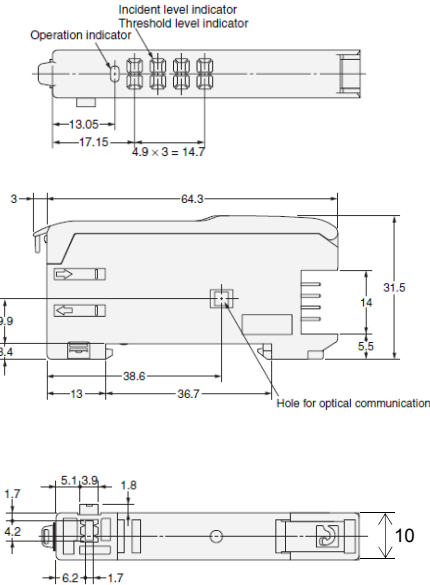
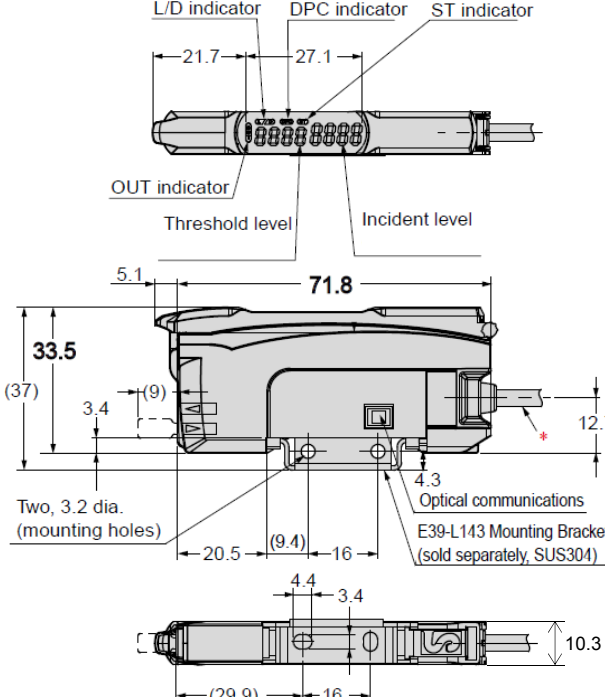
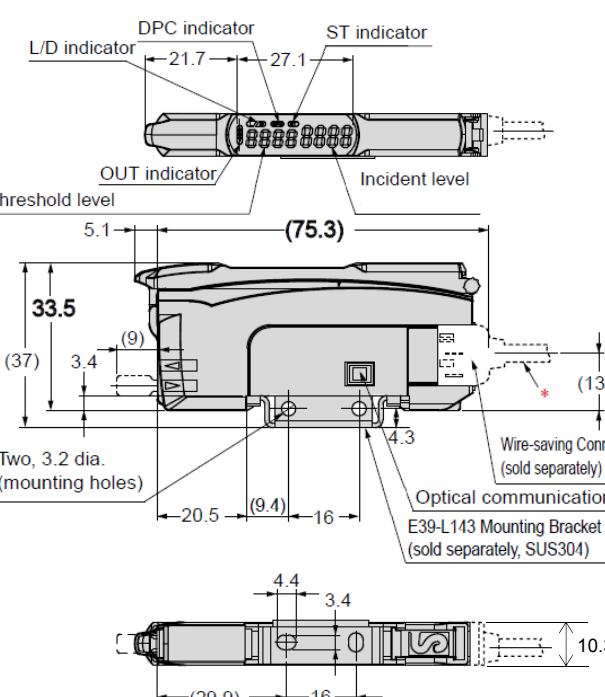
[ Wire connection ]

Product discontinuation Model E3X-DA-N series	Recommendable replacement 1 Model E3X-HD series	Recommendable replacement 2 Model E3NX-FA series
<p><b>NPN Output (E3X-DA11/6(D)-N)</b></p> 	<p><b>NPN Output (E3X-HD11/6)</b></p> 	<p><b>NPN Output (E3NX-FA11/6)</b></p> 
<p><b>PNP Output (E3X-DA41/8(D)-N)</b></p> 	<p><b>PNP Output (E3X-HD41/8)</b></p> 	<p><b>PNP Output (E3NX-FA41/8)</b></p> 

[ Mounting dimensions ]

Product discontinuation Model E3X-DA-N series	Recommendable replacement 1 Model E3X-HD series	Recommendable replacement 2 Model E3NX-FA series
 <p>Two-M3 16</p>		

[ Dimensions ]

<p><b>Product discontinuation</b>  <b>Model E3X-DA-N series</b></p>	<p><b>Recommendable replacement 1</b>  <b>Model E3X-HD series</b></p>	<p><b>Recommendable replacement 2</b>  <b>Model E3NX-FA series</b></p>
<p><b>Common</b>                      The pitch between deliver and receiver hole: 8 mm</p> 	<p>The pitch between deliver and receiver hole: 4.5 mm</p> 	
<p><b>Pre-wired type</b></p>  <p><b>Wire-saving connector</b></p> 	 	

[ Characteristics ]

Item		Product discontinuation Model E3X-DA-N series	Recommendable replacement 1 Model E3X-HD series	Recommendable replacement 2 Model E3NX-FA series
Light source (wavelength)		Red LED (660 nm)	Red, 4-element LED (625 nm)	
Power supply voltage		12 to 24 VDC±10%, ripple (p-p) 10% max.		10 to 30 VDC±10%, ripple (p-p) 10% max.
Power consumption (at power supply voltage of 24 VDC)	Normally mode	960 mW max. (Current consumption: 40 mA max.)	720 mW max. (Current consumption: 30 mA max.)	960 mW max. (Current consumption: 40 mA max.)
	Eco mode (Digital display not lit)	600 mW max. (Current consumption: 25 mA max.)	530 mW max. (Current consumption: 22 mA max.)	720 mW max. (Current consumption: 30 mA max.)
	Eco Lo mode (Luminance change of digital display)	720 mW max. (Current consumption: 30 mA max.)	640 mW max. (Current consumption: 26 mA max.)	840 mW max. (Current consumption: 35 mA max.)
Control output		Load power supply voltage: 26.4V DC max. open-collector output Load current: 50 mA Residual voltage: At load current of less than 50 mA: 1 V max.	Load power supply voltage: 26.4 V DC max. open-collector output Load current: Groups of 1 to 3 Amplifier Units: 100 mA max. Groups of more than 4 Amplifier Units: 20 mA max. Residual voltage: At load current of less than 10 mA: 1 V max. At load current of 10 to 100 mA: 2 V max.	Load power supply voltage: 30 V DC max open-collector output Load current: Groups of 1 to 3 Amplifier Units: 100 mA max. Groups of more than 4 Amplifier Units: 20 mA max. Residual voltage: At load current of less than 10 mA: 1 V max. At load current of 10 to 100 mA: 2 V max.
Protection circuits	Power supply reverse polarity protection	Provided		
	Output short-circuit protection	Provided		
	Out reverse polarity protection	Not Provided	Provided	
	Mutual interference prevention (supported for up to 10 Units)	Provided		
Response time		Super-high-speed mode; Operate/reset: 0.25 ms Standard mode Operate/reset: 1 ms Super-long-distance mode Operate/reset: 4ms The communications function and mutual interference prevention function are disabled when the detection mode is set to Super-high-speed mode.	Super-high-speed mode Operate/reset: 0.05 ms High-speed mode Operate/reset: 0.25 ms Standard mode Operate/reset: 1 ms Giga power mode Operate/reset: 16 ms The communications function and mutual interference prevention function are disabled when the detection mode is set to Super-high-speed mode.	Super-high-speed mode Operate/reset: 0.03 ms High-speed mode Operate/reset: 0.25 ms Standard mode Operate/reset: 1 ms Giga power mode Operate/reset: 16 ms The communications function and mutual interference prevention function are disabled when the detection mode is set to Super-high-speed mode.
Sensitivity setting		Teaching or manual method		
Functions	OFF delay timer: 0 to 200 ms Using Mobile Console: OFF delay, ON delay or one shot (selectable)	OFF delay timer: 0 to 200 ms Using Mobile Console: OFF delay, ON delay or one shot (selectable)	Timer disable/OFF delay/ON delay/One shot (selectable)	Timer disable/OFF delay/ON delay/one shot, or ON delay + OFF delay (selectable)
	Automatic power control (APC)	Always enabled		
	Zero-reset	Negative values can be displayed	Negative values can be displayed (Threshold value is shifted)	
	Initial-reset	Provided	Initial reset/user reset (selectable)	

Item	Product discontinuation Model E3X-DA-N series	Recommendable replacement 1 Model E3X-HD series	Recommendable replacement 2 Model E3NX-FA series	
Indicators	Operation indicator (orange) 7-segment digital incident level display (red), 7-segment digital incident level percentage display (red), threshold and excess gain 2-color double bar indicators (green and red), 7-segment digital threshold display (red)	Operation indicator (orange) 7-segment digital incident level display (Sub digital incident level display: green + Main digital incident level display: red), L/D indicator (orange), ST indicator (blue), DPC indicator (green)	7-segment displays (Sub digital display: green + Main digital display: white) OUT indicator (orange), L/D indicator (orange), ST indicator (blue), DPC indicator (green), OUT selection indicator (orange, only on models with 2 outputs)	
Display timing	normal/peak-hold/bottom-hold possible	normal/peak-hold/peak-bottom-hold/percent display/bar display/channel number possible	normal/peak-hold/peak-bottom-hold/percent display/bar display/channel number /change finder possible	
Display orientation	Switching between normal/reverse possible			
Optical axis adjustment (hyper-flashing function)	Provided	Not provided		
Ambient illumination (receiver side)	Incandescent lamp	10,000 lx max.	20,000 lx max.	
	Sunlight	20,000 lx max.	30,000 lx max.	
Ambient temperature	Operating	Groups of 1 to 3 Amplifiers: -25 to +55°C, Groups of 4 to 11 Amplifiers: -25 to +50°C, Groups of 12 to 16 Amplifiers: -25 to +45°C	Groups of 1 to 2 Amplifiers: -25 to +55°C, Groups of 3 to 10 Amplifiers: -25 to +50°C, Groups of 11 to 16 Amplifiers: -25 to +45°C, Groups of 17 to 30 Amplifiers: -25 to +40°C	
	Storage	-30 to +70°C (with no condensation)		
Weight (Packed state)	Pre-wired (standard cable length: 2 m)	Approx. 100 g	Approx. 105 g	Approx. 115 g
	Standard connector	Approx. 55 g	Approx. 60 g	
Material	Case	Polybutylene terephthalate (PBT)	Polycarbonate	
	Cover	Polycarbonate		

[ Operation ratings ]

Product discontinuation Model E3X-DA-N series	Recommendable replacement 1 Model E3X-HD series	Recommendable replacement 2 Model E3NX-FA series																																																					
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Please refer to the catalog about combination of other fiber heads.

[ Operation methods ]

Product discontinuation Model E3X-DA-N series	Recommendable replacement 1 Model E3X-HD series	Recommendable replacement 2 Model E3NX-FA series
<b>Operation with slide switch and button</b>	<b>Operation with button</b>	<b>Operation with button</b>
<p>Lock Button</p> <p>Level Display</p> <p>Setting Buttons TEACH MODE</p> <p>Operating Mode Selector Use to switch between Light ON and Dark ON modes.</p> <p>Mode Selector Use to select SET, ADJ, or RUN mode.</p> <p>Operation Indicator ON when output is ON. OFF when output is OFF.</p>	<p>[I/D] Indicator] Indicates the setting status: Light-ON (L) or Dark-ON (D).</p> <p>[DPC] Indicator] Turns ON when Dynamic Power Control is effective.</p> <p>[L/D] Button] Use to switch between Light-ON (L) and Dark-ON (D).</p> <p>[OUT] Indicator] Turns ON when the output is ON.</p> <p>[ST] Indicator] Turns ON when Smart Tuning is in progress.</p> <p>[MODE] Button] Use to switch between Detection Mode and Setting Mode.</p> <p>[TUNE] Button] Automatically sets the emitter power and set values.</p> <p>[ ] UP/DOWN Button] Used to fine-tune the threshold or change set values.</p>	<p>[I/D] Indicator] Indicates the setting status: Light-ON or Dark-ON.</p> <p>[DPC] Indicator] Turns ON when Dynamic Power Control is effective.</p> <p>[L/D] Button] Use to switch between Light-ON and Dark-ON.</p> <p>[OUT] Indicator] Turns ON when the output is ON.</p> <p>[ST] Indicator] Turns ON when Smart Tuning is in progress.</p> <p>[MODE] Button] Use to switch between Detection Mode and Setting Mode.</p> <p>[TUNE] Button] Excludes Smart Tuning.</p> <p>[ ] UP/DOWN Button] Used to fine-tune the threshold or change set values.</p>

Please refer to the instruction sheet about in-depth operating method.

Specifications and prices in this product news are as of the issue date and are subject to change without notice. Only main changes in specifications are described in this document. Please be sure to read the relevant catalogs, datasheets, product specifications, instructions, and manuals for precautions and necessary information when using products.