PRODUCT NEWS

Product Discontinuation Notices

Fiber Sensors

OMRON

Issue Date
March 2, 2015

No. 2015035CE

Discontinuation Notice of E3X-DA-S series (partially).

Product Discontinuation	Recommended Replacement
Digital Fiber Amplifier Unit / Advance Digital Fiber Amplifier Unit	Smart Fiber Amplifier Unit
Model E3X-DA0/1/2/4/5/6/7/8/9[]-S **Model E3X-DA1/4/6/8[]AT-S** **Model E3X-DA1/4/6/8[]SE-S** **Model E3X-DA1/4[]TG-S**	**Model E3X-HD series** **When External input and 2 output are needed.** **(Model E3NX-FA series)**
Model E3X-DA1/4/6/8[]RM-S **Model E3X-DA1/4/6/8[]TW-S** **Model E3X-DA2/5/7/9[]R-S** **Model E3X-DA2/5/7/9[]F-S**	**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) Instead of ATC function, DPC is available for E3X-HD series as an upwardly compatible function. Please refer to characteristics and operation ratings for details.
2) There are no counter functions.
3) Mobile console E3X-MC11-SV2 is not available.
4) The Communication Unit E3X-DRT21-S VER.3 cannot be connected.
   Only E3X-HD0 can be connected to Communication Unit E3X-CRT, E3X-ECT.
   E3NX-FA0 doesn't work when combined with Communication Unit E3X-CRT or E3X-ECT .
5) Optical communication, to E3X-DA-S series is not available for E3NX-FA. Notice that channel recognition and Mutual interference prevention is not available at communication status
6) External input, alarm output, area output are not available for E3X-HD。If necessary, E3NX-FA series is recommended.
7) Differential function is not available for E3NX-FA series. E3X-HD series is recommended if necessary.
8) The power supply voltage and load current are different with E3X-DA-S series and E3NX-FA series.

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

[Difference from discontinued product]

Recommended replacement Model	Body Color	Dimen-sions	Wire connection	Mounting Dimensions	Charac-teristics	Operation ratings	Operation methods
Model E3X-HD series	*	*	**	**	*	*	*
Model E3NX-FA series	*	*	**	**	*	*	*

** : Compatible
* : The change is a little/Almost compatible
-- : Not compatible
- : No corresponding specification

[Product Discontinuation and recommended replacement]

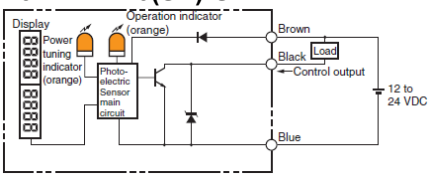
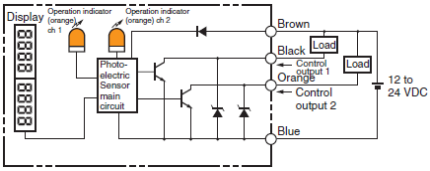
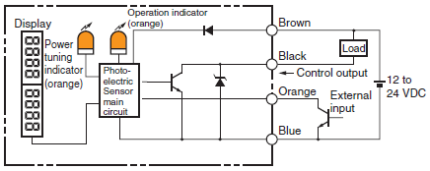
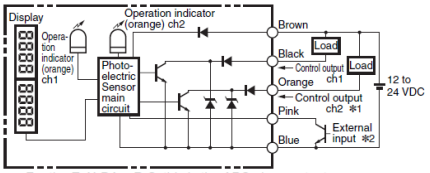
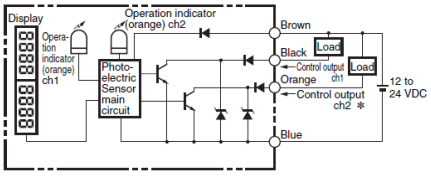
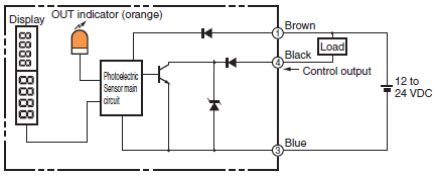
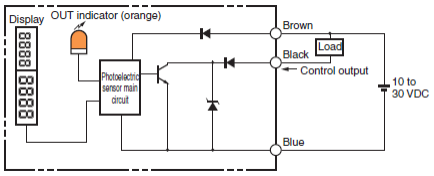
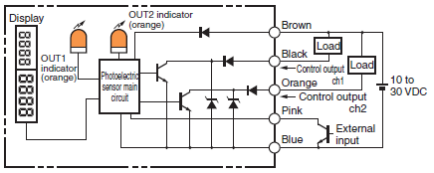
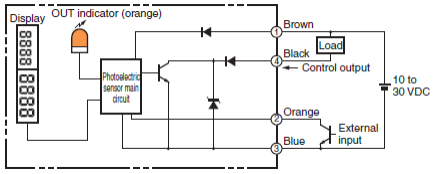
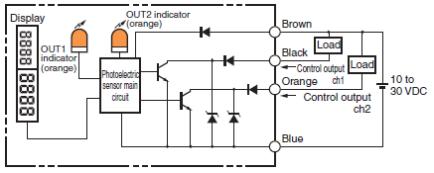
Product discontinuation	Recommended replacement
E3X-DA0-S	E3X-HD0
	E3NX-FA0
E3X-DA11AT-S 2M	E3X-HD11 2M
	E3NX-FA21 2M
E3X-DA11RM-S 2M	E3NX-FA21 2M
E3X-DA11-S 2M	E3X-HD11 2M
	E3NX-FA11 2M
E3X-DA11-S 5M	E3X-HD11 5M
	E3NX-FA11 5M
E3X-DA11SE-S 2M	E3X-HD11 2M
	E3NX-FA11 2M
E3X-DA11TG-S 2M	E3X-HD11 2M
	E3NX-FA11 2M
E3X-DA11TW-S 2M	E3NX-FA21 2M
E3X-DA11TW-S 5M	E3NX-FA21 2M
E3X-DA21F-S 2M	E3NX-FA11 2M
E3X-DA21R-S 2M	E3NX-FA21 2M
E3X-DA21-S 2M	E3X-HD11 2M
	E3NX-FA21 2M
E3X-DA21-S 5M	E3X-HD11 5M
	E3NX-FA21 5M
E3X-DA41AT-S 2M	E3X-HD41 2M
	E3NX-FA51 2M
E3X-DA41RM-S 2M	E3NX-FA51 2M
E3X-DA41-S 2M	E3X-HD41 2M
	E3NX-FA41 2M
E3X-DA41-S 5M	E3X-HD41 5M
	E3NX-FA41 5M
E3X-DA41SE-S 2M	E3X-HD41 2M
	E3NX-FA41 2M
E3X-DA41TG-S 2M	E3X-HD41 2M
	E3NX-FA41 2M
E3X-DA41TW-S 2M	E3NX-FA51 2M
E3X-DA41TW-S 5M	E3NX-FA51 5M
E3X-DA51F-S 2M	E3NX-FA41 5M
E3X-DA51R-S 2M	E3NX-FA51 2M
E3X-DA51-S 2M	E3X-HD41 2M
	E3NX-FA51 2M
E3X-DA6AT-S	E3X-HD6
	E3NX-FA7TW
E3X-DA6RM-S	E3NX-FA7
E3X-DA6-S	E3X-HD6
	E3NX-FA6
E3X-DA6SE-S	E3X-HD6
	E3NX-FA6
E3X-DA6TW-S	E3NX-FA7TW
E3X-DA7F-S	E3NX-FA7TW
E3X-DA7R-S	E3NX-FA7TW

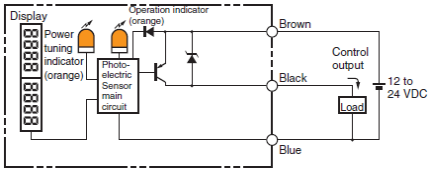
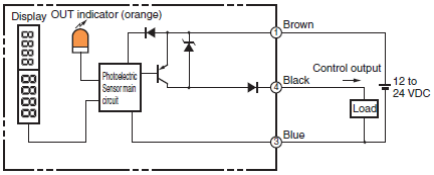
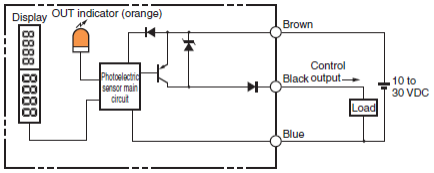
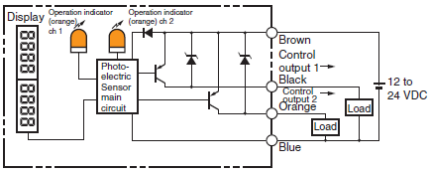
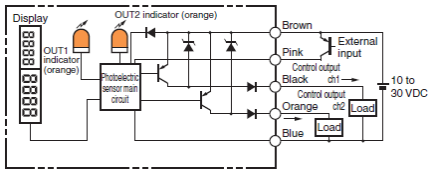
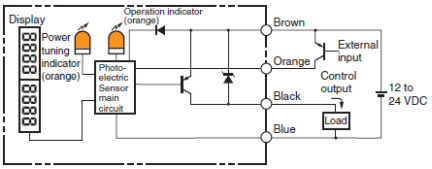
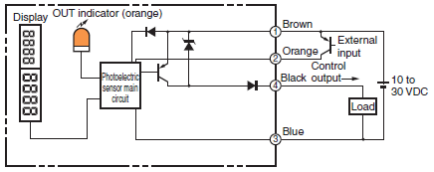
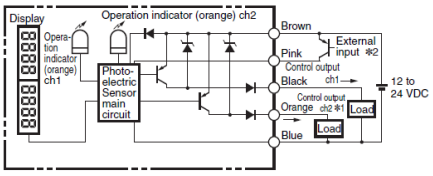
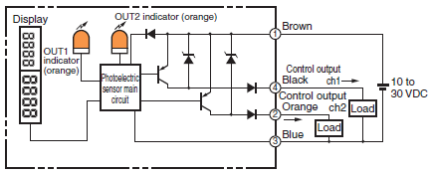
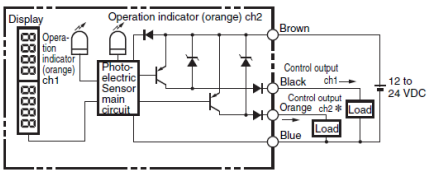
Product discontinuation	Recommended replacement
E3X-DA7-S	E3X-HD6
	E3NX-FA7TW
E3X-DA8AT-S	E3X-HD8
	E3NX-FA9TW
E3X-DA8RM-S	E3NX-FA9
E3X-DA8-S	E3X-HD8
	E3NX-FA8
E3X-DA8SE-S	E3X-HD8
	E3NX-FA8
E3X-DA8TW-S	E3NX-FA9TW
E3X-DA9F-S	E3NX-FA9TW
E3X-DA9R-S	E3NX-FA9TW
E3X-DA9-S	E3X-HD8
	E3NX-FA9TW
E3X-DA11RM-S-15 2M	No recommended replacement
E3X-DA11RM-S-21	No recommended replacement
E3X-DA11-S-25 2M	E3X-HD11 2M
	E3NX-FA11 2M
E3X-DA11-S-3 2M	No recommended replacement
E3X-DA11-S-4 2M	No recommended replacement
E3X-DA11-S-6 2M	E3X-HD11 2M
	E3NX-FA11 2M
E3X-DA11-S-C1 2M	No recommended replacement
E3X-DA11SE-S-C1 2M	No recommended replacement
E3X-DA13-S	No recommended replacement
E3X-DA14-S	E3X-HD14
	E3NX-FA24
E3X-DA21-S-25	E3X-HD11 2M
	E3NX-FA21 2M
E3X-DA21-S-M3J 0.3M	No recommended replacement
E3X-DA41-S-M1J 0.3M	No recommended replacement
E3X-DA41-S-M5J 0.15M	No recommended replacement
E3X-DA43-S	No recommended replacement
E3X-DA44-S	E3X-HD44
	E3NX-FA54
E3X-DA51-S-M1TJ 0.3M	E3X-HD41-M1TJ 0.3M
E3X-DA54-S	E3X-HD14
	E3NX-FA54
E3X-DA6AT-S-11	No recommended replacement
E3X-DA6-S-12	No recommended replacement
E3X-DA6-S-19	E3X-HD6
	E3NX-FA6
E3X-DA6-S-6	No recommended replacement
E3X-DA6TW-S-1	No recommended replacement
E3X-DA11-S-19	E3X-HD11 2M
	E3NX-FA11 2M

[Body color]

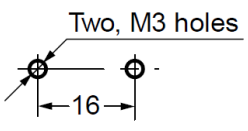
Product discontinuation Model E3X-DA-S series	Recommendable replacement 1 Model E3X-HD series	Recommendable replacement 2 Model E3NX-FA series
 Sensor: black Cover printing: orange Case side: No printing **E3X-DA2/5/7/9[]-S**  Sensor: black Cover printing: Gold Case side: White printing	 Sensor: black Cover printing: silver Case side: black name plate with white printing	 Sensor: black Cover printing: silver Case side: black name plate with white printing
Operation panel  7-seg display: red + green Operation button: orange Operation panel printing: white	 7-seg display: green + orange Operation button: black Operation panel printing: white	 7-seg display: green + orange Operation button: black Operation panel printing: white
Cable  Dark grey	 Black	

[Wire connection]

Product discontinuation Model E3X-DA-S series	Recommendable replacement 1 Model E3X-HD series	Recommendable replacement 2 Model E3NX-FA series
NPN Type **E3X-DA11/6(SE)-S**  **E3X-DA11/6TW-S** **E3X-DA11/6AT-S**  **E3X-DA11/6RM-S**  **E3X-DA21-S** **E3X-DA21R/F-S**  ✻1. For the E3X-DA21R-S, this is the APC alarm output. This output does not exist on the E3X-DA21F-S. ✻2. This input does not exist the E3X-DA21F-S. **E3X-DA7-S** **E3X-DA7R/F-S**  ✻ For the E3X-DA7R-S, this is the APC alarm output. This output does not exist on the E3X-DA7F-S.	**E3X-HD11/6**  	**E3NX-FA11/6**  **E3NX-FA21**  **E3NX-FA7**  **E3NX-FA7TW** 

Product discontinuation Model E3X-DA-S series	Recommendable replacement 1 Model E3X-HD series	Recommendable replacement 2 Model E3NX-FA series
PNP Type **E3X-DA41/8(SE)-S**  	**E3X-HD41/8**  	**E3NX-FA41/8** 
E3X-DA41/8TW-S **E3X-DA41/8AT-S**  		**E3NX-FA51** 
E3X-DA41/8RM-S  		**E3NX-FA9** 
E3X-DA51-S **E3X-DA51R/F-S**  *1. For the E3X-DA51R-S, this is the APC alarm output. This output does not exist on the E3X-DA51F-S. *2. This input does not exist the E3X-DA51F-S.		**E3NX-FA9TW** 
E3X-DA9-S **E3X-DA9R/F-S**  		

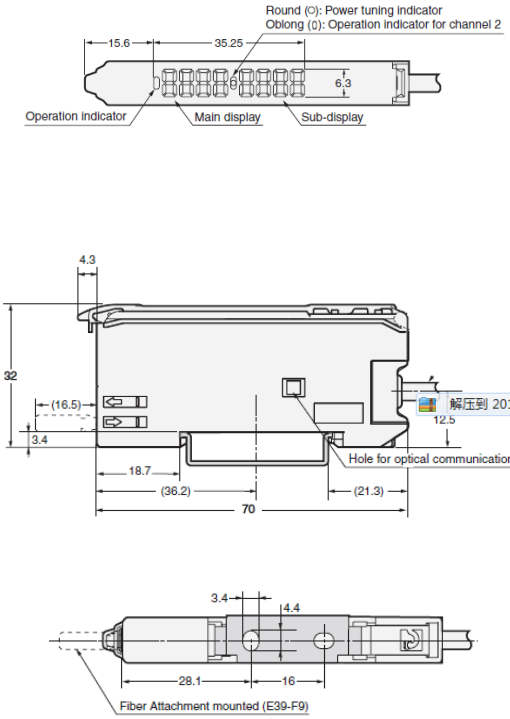
[Mounting dimensions]

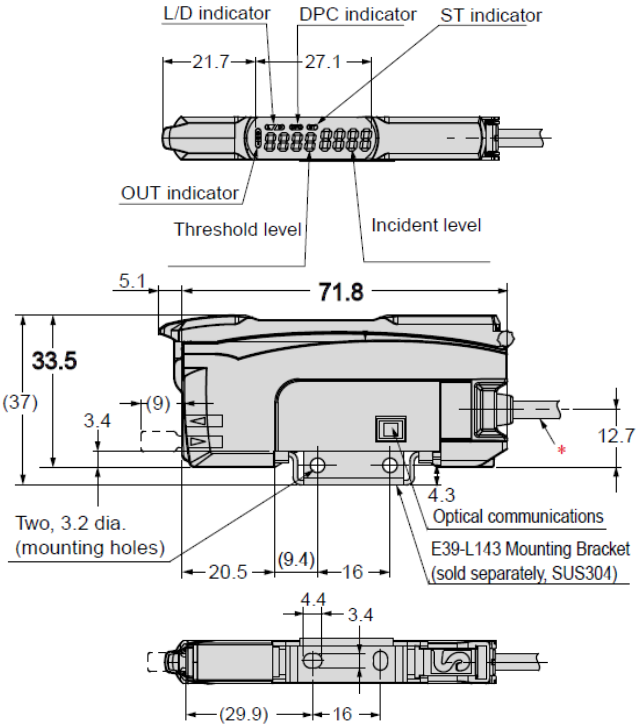
Product discontinuation Model E3X-DA-S series	Recommendable replacement 1 Model E3X-HD series	Recommendable replacement 2 Model E3NX-FA series
Mounting Holes  		

[Dimensions]

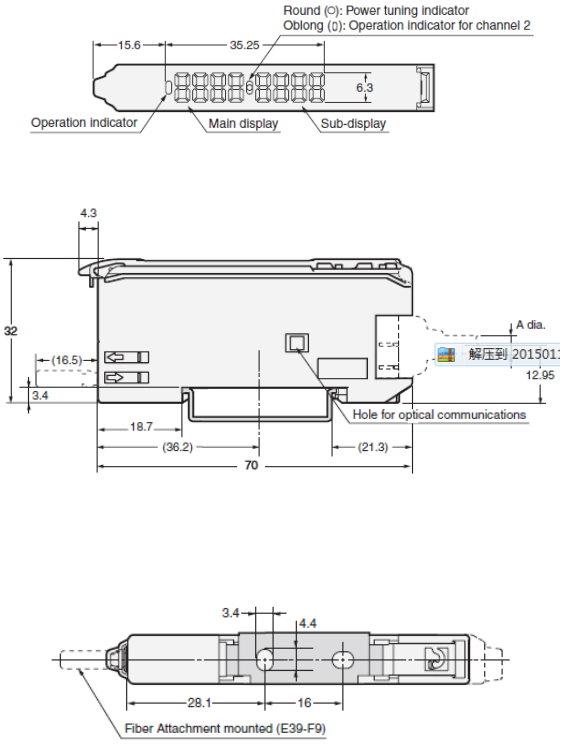
Product discontinuation Model E3X-DA-S series	Recommendable replacement 1 Model E3X-HD series	Recommendable replacement 2 Model E3NX-FA series

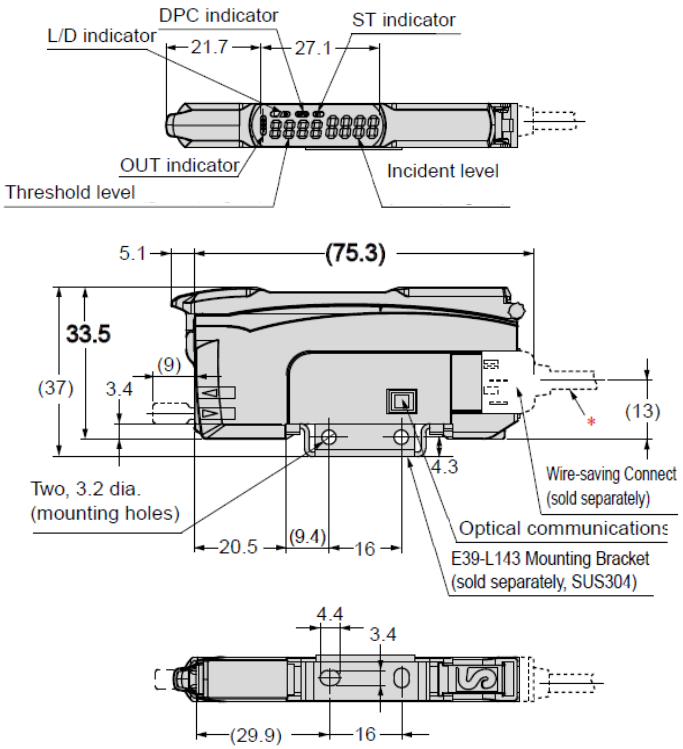
Pre-wired type

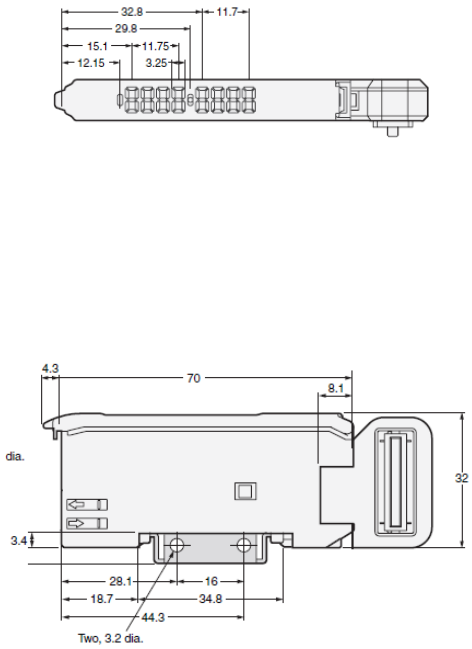
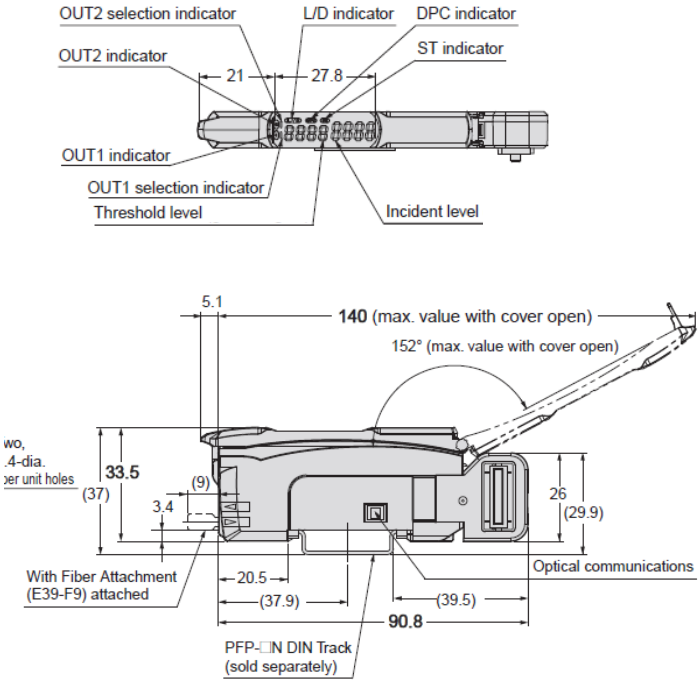




Wire-saving connector





Product discontinuation Model E3X-DA-S series	Recommendable replacement 1 Model E3X-HD series	Recommendable replacement 2 Model E3NX-FA series
E3X-DA0-S  	**E3X-HD0/FA0**  	

[Characteristics]
Digital Fiber Amplifier (E3X-DA1/4/6/8[]-S/RM-S/TW-SAT-S/SE-S)

Item			Product discontinuation Model E3X-DA-S series	Recommendable replacement 1 Model E3X-HD series	Recommendable replacement 2 Model E3NX-FA series
Light source (wavelength)			Red LED (635 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.) * E3X-DA[]RM/TW/AT-S 1080 mW max. (Current consumption: 45 mA max.)	720 mW max. (Current consumption: 30 mA max.)	960mW max. (Current consumption: 40 mA max.)
	Eco mode (Digital display light off)		None	530mW max. (Current consumption: 22 mA max.)	720mW max. (Current consumption: 30 mA max.)
	Eco Lo mode (Luminance change of digital display)		None	640mW max. (Current consumption: 26 mA max.)	840mW max. (Current consumption: 35 mA max.)
Control output			Load power supply voltage: 26.4 V 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.3 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	Not Provided	
Response time	**Super-high-speed mode**	**DA[]SE-S**	None	NPN output Operate/reset: 50 µs PNP output Operate/reset: 55 µs	Operate/reset: 1 output type 30 µs 2 output type 32 µs
		DA[]-S	Operate: 48 µs, reset: 50 µs		
		DA[]RM-S			
		DA[]TW-S	Operate/reset: 80 µs		
		DA[]AT-S	Operate/reset: 130 µs		
	High-speed mode		Operate/reset: 250 µs * Except for E3X-DA[]SE-S	Operate/reset: 250 µs	
	Standard mode		Operate/reset: 1 ms * Except for E3X-DA[]SE-S	Operate/reset: 1 ms	
	Giga power mode		None	Operate/reset: 16 ms	
Sensitivity setting			Teaching or manual method		
Functions	**Power tuning**		Provided		
	Timer		Select from OFF-delay, ON-delay, One-shot	Select from disabled, OFF-delay, ON-delay, One-shot	Select from disabled, OFF-delay, ON-delay, One-shot, ON/OFF-delay
	Automatic power control (APC)		Always enabled		
	Zero-reset		Negative values can be displayed. (Threshold value is shifted.) * Except for E3X-DA[]SE-S		
	Initial-reset		Initial -reset	Select from initial reset/User reset	
	Mutual interference prevention (supported for up to 10 Units)		Provided		
Individual functions	**Counter * Only E3X-DA[]RM-S**		Switchable between up counter and down counter. Set counter:0 to 9999999	None	
	ATC * Only E3X-DA[]AT-S		Provided	None * Dynamic power control function (DPC) provided	

Item			Product discontinuation Model E3X-DA-S series	Recommendable replacement 1 Model E3X-HD series	Recommendable replacement 2 Model E3NX-FA series
Individual functions	**Differential detection * onlyE3X-DA[]RM-S only E3X-DA[]TW-S only E3X-DA[]AT-S**		Provided Switchable between single edge and double edge detection mode Single edge: Can be set to: 250 µs, 500 µs, 1 ms, 10 ms, or 100 ms Double mode: Can be set to 500 µs, 1 ms, 2 ms, 20 ms, or 200 ms	Provided	None
	I/O setting	**DA[]RM-S**	External input (Select from teaching, power tuning, zero reset, light OFF or counter reset.)	External input function not provided 2 ch output not provided	Output 1 setting (Select from normal detection mode/area detection mode) Output 2 setting * Only FA21, 51, 7TW, 9TW (Select from normal detection mode/alarm output mode/error detection mode) External input * Only FA21, 51, FA7, FA9, FA24, FA54 (Select from input OFF/tuning, power tuning/emission OFF/zero reset, or bank switching.
		DA[]TW-S	output setting (Select from channel 2 output/area output, or self-diagnosis.)		
		DA[]AT-S	output setting (Select from channel 2 output/area output/or self-diagnosis, or ATC error output)		
Indicator		**DA[]SE-S**	Operation indicator (orange)	Operation indicator (orange) 7-segment digital indicator (sub digital display: green + main digital 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)
		DA[]-S DA[]RM-S	Operation indicator (orange) power tuning indicator (orange)		
		DA[]TW-S DA[]AT-S	Operation indicator 1 ch (orange) Operation indicator 2 ch (orange)		
Display timing			Select from incident level + threshold or other 7 patterns	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 * Except for E3X-DA[]SE-S		
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 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 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		

Advanced Digital Fiber Amplifier (E3X-DA2/5/7/9[]-S/R-S/F-S)

Item			Product discontinuation Model E3X-DA-S series	Recommendable replacement 1 Model E3X-HD series	Recommendable replacement 2 Model E3NX-FA series
Light source (wavelength)			Red, 4-element LED (625 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 light off)		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: 26.4 V 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		Provided		
Response time	**Super-high-speed mode**	**DA[]-S**	Operate/reset: 80 µs	NPN output Operate/reset: 50 µs PNP output Operate/reset: 55 µs	Operate/reset: 1 output type: 30 µs 2 output type: 32 µs
		DA[]R-S			
		DA[]F-S	NPN output Operate: 46 µs, reset: 48 µs PNP output Operate: 51 µs, reset: 53 µs		
	High-speed mode		Operate/reset: 250 µs Except for E3X-DA[]F-S	Operate/reset: 250 µs	
	Standard mode		Operate/reset: 1 ms * Except for E3X-DA[]F-S	Operate/reset: 1 ms	
	High-resolution mode		Operate/reset: 4 ms * Except for E3X-DA[]F-S	None	
	Tough mode		Operate/reset: 16 ms * Except for E3X-DA[]F-S	None	
	Giga power mode		None	Operate/reset: 16 ms	
Sensitivity setting			Teaching or manual method		
Functions	**power tuning**		Provided		
	Timer		Select from disabled, OFF-delay, ON-delay, One-shot, ON/OFF-delay	Select from disabled, OFF-delay, ON-delay, One-shot	Select from disabled, OFF-delay, ON-delay, One-shot, ON/OFF-delay
	Automatic power control (APC)		Always enabled		
	Zero-reset		Negative values can be displayed. (Threshold value is shifted.) * Except for E3X-DA[]SE-S		
	Initial-reset		Select from initial reset/User reset		
	Mutual interference prevention (supported for up to 10 Units)		Provided		
	ATC		Provided	None * Dynamic power control function (DPC) provided	

Item			Product discontinuation Model E3X-DA-S series	Recommendable replacement 1 Model E3X-HD series	Recommendable replacement 2 Model E3NX-FA series
Individual functions	Differential detection * Only for E3X-DA[]-S, DA[]R-S		Provided Switchable between single edge and double edge detection mode Single edge: Can be set to: 250 µs, 500 µs, 1 ms, 10 ms, or 100 ms Double mode: Can be set to 500 µs, 1 ms, 2 ms, 20 ms, or 200 ms	Provided	None
	Slow-motion display * Only for E3X-DA[]F-S		Provided	None	
	APC margin display * Only for E3X-DA[]R-S		Provided	None	
	I/O setting	DA[]-S DA[]R-S	External input (Select from teaching, power tuning, zero reset, light OFF or counter reset.)	External input function not provided 2 ch output not provided	Output 1 setting (Select from normal detection mode/area detection mode) Output 2 setting * Only FA21, 51, 7TW, 9TW (Select from normal detection mode/alarm output mode/error detection mode) External input * Only FA21, 51, FA7, FA9, FA24, FA54 (Select from input OFF/tuning, power tuning/emission OFF/zero reset, or bank switching.
		DA[]-S	Output setting Select from output for each channel, area output, or self-diagnosis.		
Indicator		DA[]-S	Operation indicator 1 ch (orange) Operation indicator 2 ch (orange)	Operation indicator(orange) 7-segment digital indicator (sub digital display: green + main digital 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)
		DA[]R-S	Operation indicator (orange) APC alarm indicator (orange)		
		DA[]F-S	Operation indicator 1 ch (orange) power tuning output indicator (orange)		
Display timing			Select from incident level + threshold or other 7 patterns	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		
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 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 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		

Sensor Communications Unit (E3X-DA0-S)

Item		Product discontinuation Model E3X-DA0-S	Recommendable replacement 1 Model E3X-HD0
Light source (wavelength)		Red, 4-element LED (625 nm)	Red, 4-element LED (625 nm)
Power supply voltage		Supplied from the connector through the Sensor Communication Unit	
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.)
	Eco mode (Digital display light off)	600 mW max. (Current consumption: 25 mA max.)	530 mW max. (Current consumption: 22 mA max.)
	Eco Lo mode (Luminance change of digital display)	720 mW max. (Current consumption: 30 mA max.)	None
Control output		None	
Protection circuits	**Power supply reverse polarity protection**	Provided	
	Output short-circuit protection	Provided	
	Out reverse polarity protection	Provided	None
Response time	**Super-high-speed mode**	None	
	High-speed mode	Operate/reset: 250 µs	
	Standard mode	Operate/reset: 1 ms	
	High-resolution mode	Operate/reset: 4 ms	None
	Tough mode	Operate/reset: 16 ms	None
	Giga power mode	None	Operate/reset: 16ms
Sensitivity setting		Teaching or manual method	
Maximum connectable Units		with E3X-CRT: 16 units, with E3X-ECT: 30 units	
Functions	**power tuning**	Provided	
	Timer	Select from disabled, OFF-delay, ON-delay, One-shot, ON/OFF-delay	Select from disabled, OFF-delay, ON-delay, One-shot.
	Automatic power control (APC)	Always enabled	
	Zero-reset	Negative values can be displayed. (Threshold value is shifted.)	
	Initial-reset	Select from initial reset/User reset	
	Mutual interference prevention (supported for up to 10 Units)	Provided	
	ATC	Provided	None * Dynamic power control function (DPC) provided
Individual functions	**Differential detection**	Switchable between single edge and double edge detection mode Single edge: Can be set to: 250 µs, 500 µs, 1 ms, 10 ms, or 100 ms Double mode: Can be set to: 500 µs, 1 ms, 2 ms, 20 ms, or 200 ms	Provided
	I/O setting	Output setting Select from output for each channel, area output, or self-diagnosis.	External input function not provided. 2 ch output provided.
Display timing		Select from incident level + threshold or other 6 patterns	normal/peak-hold/peak·bottom-hold/percent display/bar display/channel number possible
Display orientation		Switching between normal/reverse possible	
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 2 Amplifiers: 0 to 55°C Groups of 3 to 10 Amplifiers: 0 to 50°C Groups of 11 to 16 Amplifiers: 0 to 45°C Groups of 17 to 30 Amplifiers: 0 to 40°C	
	Storage	-30 to +70°C (with no icing or condensation)	
Weight (Packed state)		Approx.55 g	Approx.65 g
Material	**Case**	Polybutylene terephthalate (PBT)	Heat-resistant ABS
	Cover	Polycarbonate (PC)	

[Operation ratings]

Product discontinuation Model E3X-DA-S series

Sensing distance (E3X-DA[]-S/RM-S/TW-S/AT-S/SE-S)

Model	E3X-DA□-S			
	High-resolution mode	Standard mode	High-speed mode	Super-high-speed mode
E32-T11R 2M	700	530	350	140
E32-D11R 2M	300	170	120	50

(E3X-DA[]-S/[]R-S/[]-S/DA0-S)

Model	Sensing distance (mm)				
	Tough mode	High-resolution mode	Standard mode	High-speed mode	Super-high-speed mode
E32-T11R 2M	2,000	1,400	1,000	700	280
E32-D11R 2M	840	600	350	240	100

Recommendable replacement 1 Model E3X-HD series

Sensing distance

Model	Sensing distance (mm)			
	Giga mode	Standard mode	High-speed mode	Super-high-speed mode
E32-T11R 2M	2,000	1,000	700	280
E32-D11R 2M	840	350	240	100

Recommendable replacement 2 Model E3NX-FA series

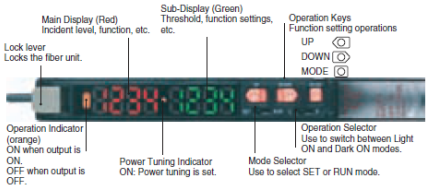
Sensing distance

Model	Sensing distance (mm)			
	Giga mode	Standard mode	High-speed mode	Super-high-speed mode
E32-T11R 2M	3,000	1,500	1,050	280
E32-D11R 2M	1,260	520	360	100

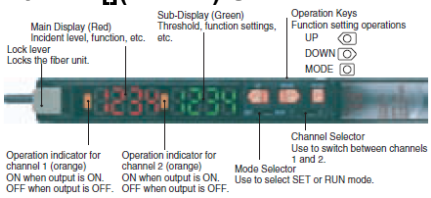
[Operation methods]

Product discontinuation Model E3X-DA-S series

E3X-DA[](RM/AN)-S



E3X-DA[](TW/AT)-S



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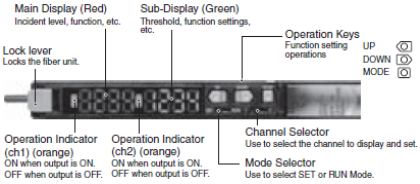

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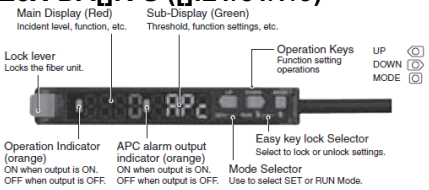

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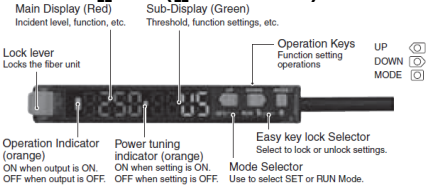
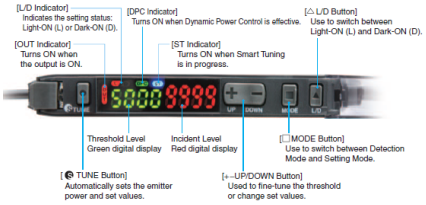


Recommendable replacement 1 Model E3X-HD series

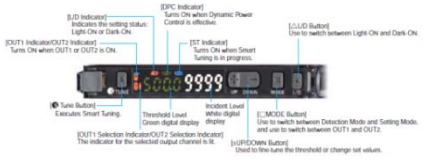
E3X-HD[]



Recommendable replacement 2 Model E3NX-FA series

E3NX-FA[]11/41/6/8/7/9/24/54

E3NX-FA21/51/7TW/9TW/54TW/0



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