

Discontinuation Notice of Digital Fiber Amplifier Units of E3X-HD Series.

Product Discontinuation

Digital Fiber Amplifier Units

Model E3X-HD11 2M

Model E3X-HD11 5M

Model E3X-HD41 2M

Model E3X-HD41 5M

Model E3X-HD6

Model E3X-HD8

Model E3X-HD14

Model E3X-HD44

Model E3X-HD0



Recommended Replacement

Digital Fiber Amplifier Units

Model E3X-ZV11 2M

Model E3X-ZV11 5M

Model E3X-ZV41 2M

Model E3X-ZV41 5M

Model E3X-ZV6

Model E3X-ZV8

Model E3NX-FA24

Model E3NX-FA54

Model E3NX-FA0

[Final order entry date]

The end of March, 2024

[Date of The Last Shipping]

The end of June, 2024

[Difference from discontinued product]

Recommended replacement Model	Body Color	Dimensions	Wire connection	Mounting Dimensions	Characteristics	Operation ratings	Operation methods
E3X-ZV Series	**	*	**	**	**	**	**
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-HD11 2M	E3X-ZV11 2M
E3X-HD11 5M	E3X-ZV11 5M
E3X-HD41 2M	E3X-ZV41 2M
E3X-HD41 5M	E3X-ZV41 5M
E3X-HD6	E3X-ZV6
E3X-HD8	E3X-ZV8
E3X-HD14	E3NX-FA24
E3X-HD44	E3NX-FA54
E3X-HD0	E3NX-FA0

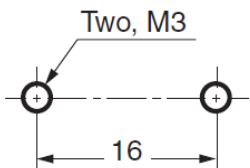
[Body color]

Product discontinuation Model E3X-HD Series	Recommendable replacement Model E3X-ZV Series
Body 	
Operation panel  Double display: green + red	 Double display: green + red
Product discontinuation Model E3X-HD Series	Recommendable replacement Model E3NX-FA Series
Body 	
Operation panel  Double display: green + red	 Double display: green + white

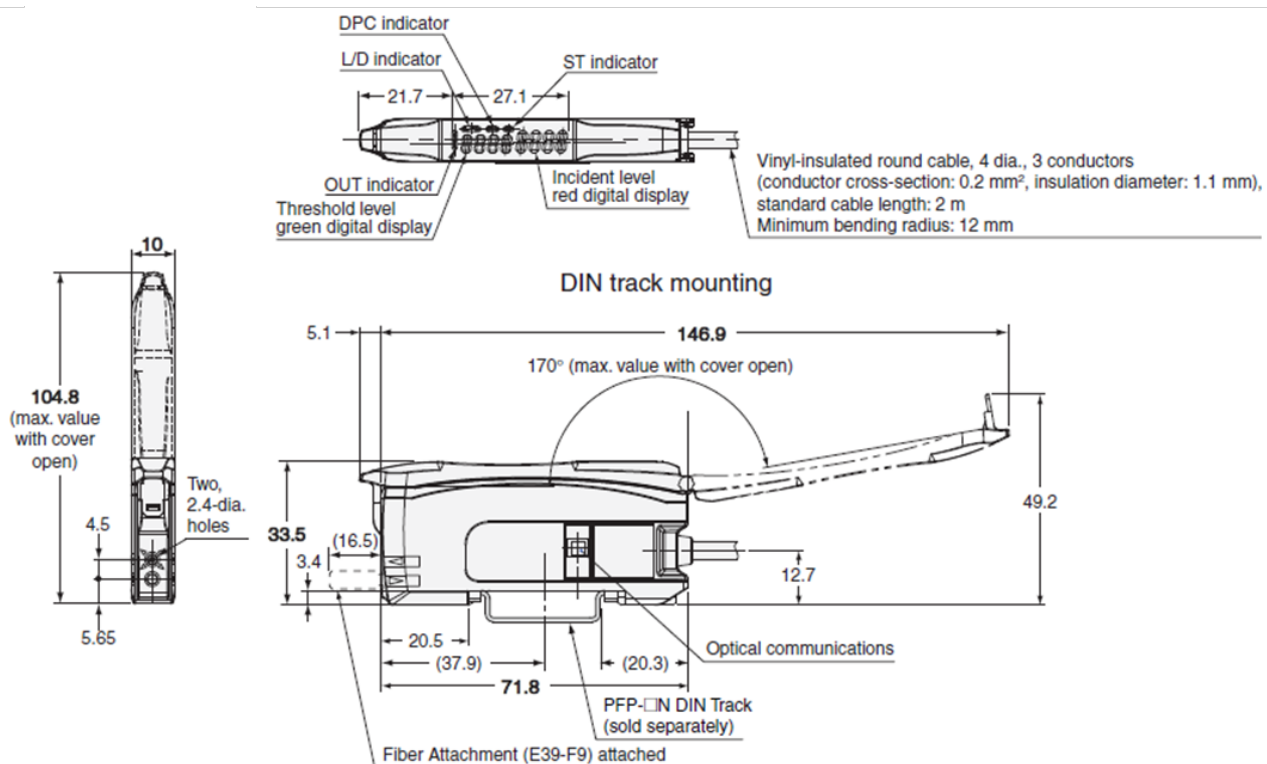
[Wire connection]

<p>Product discontinuation Model E3X-HD Series</p>	<p>Recommendable replacement Model E3X-ZV Series</p>
<p>NPN Type E3X-HD11/6</p>	<p>NPN Type E3X-ZV11/6</p>
<p>PNP Type E3X-HD41/8</p>	<p>PNP Type E3X-ZV41/8</p>
<p>NPN Type E3X-HD14</p> <p>• M8 Connector Pin Arrangement</p> <p>Note: Pin 2 is not used.</p>	<p>NPN Type E3NX-FA24</p> <p>• M8 Connector Pin Arrangement</p>
<p>PNP Type E3X-HD44</p> <p>• M8 Connector Pin Arrangement</p> <p>Note: Pin 2 is not used.</p>	<p>PNP Type E3NX-FA54</p> <p>• M8 Connector Pin Arrangement</p>

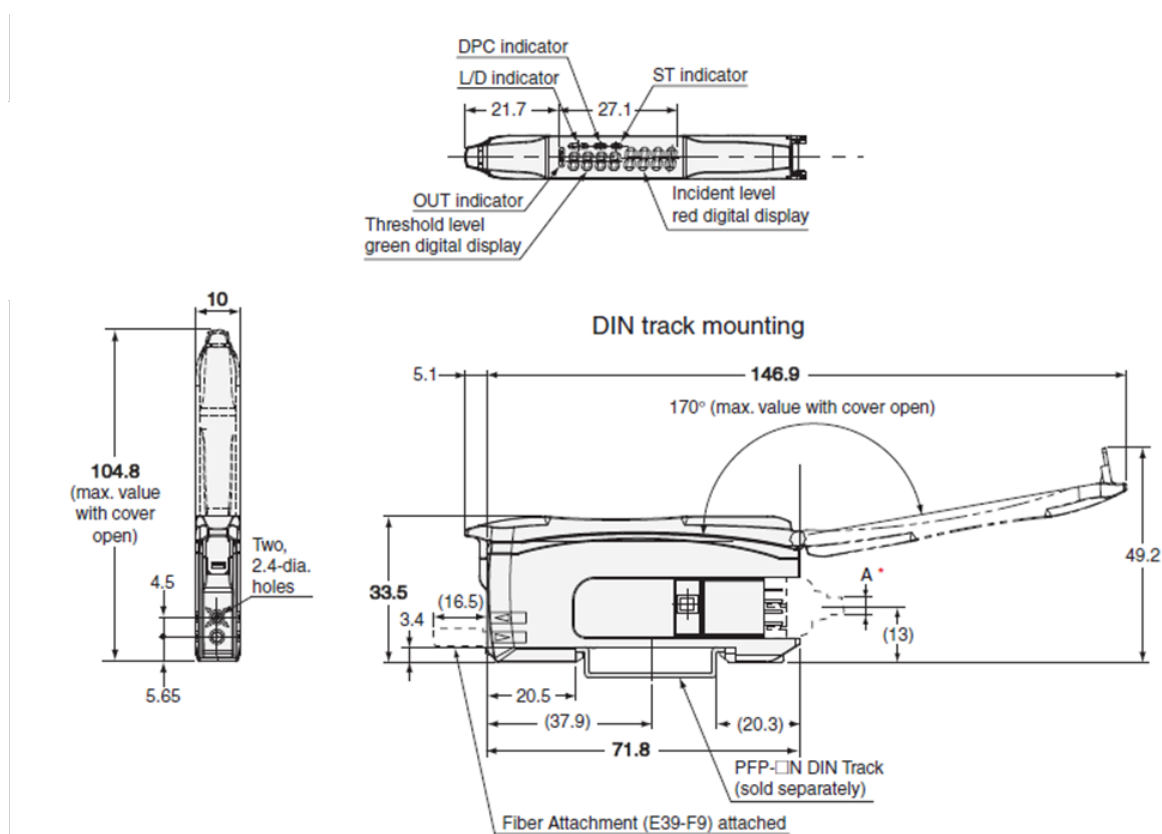
[Mounting dimensions]

Product discontinuation Model E3X-HD Series		Recommendable replacement Model E3X-ZV & E3NX-FA Series
<p style="text-align: center;">Mounting Holes</p> 		

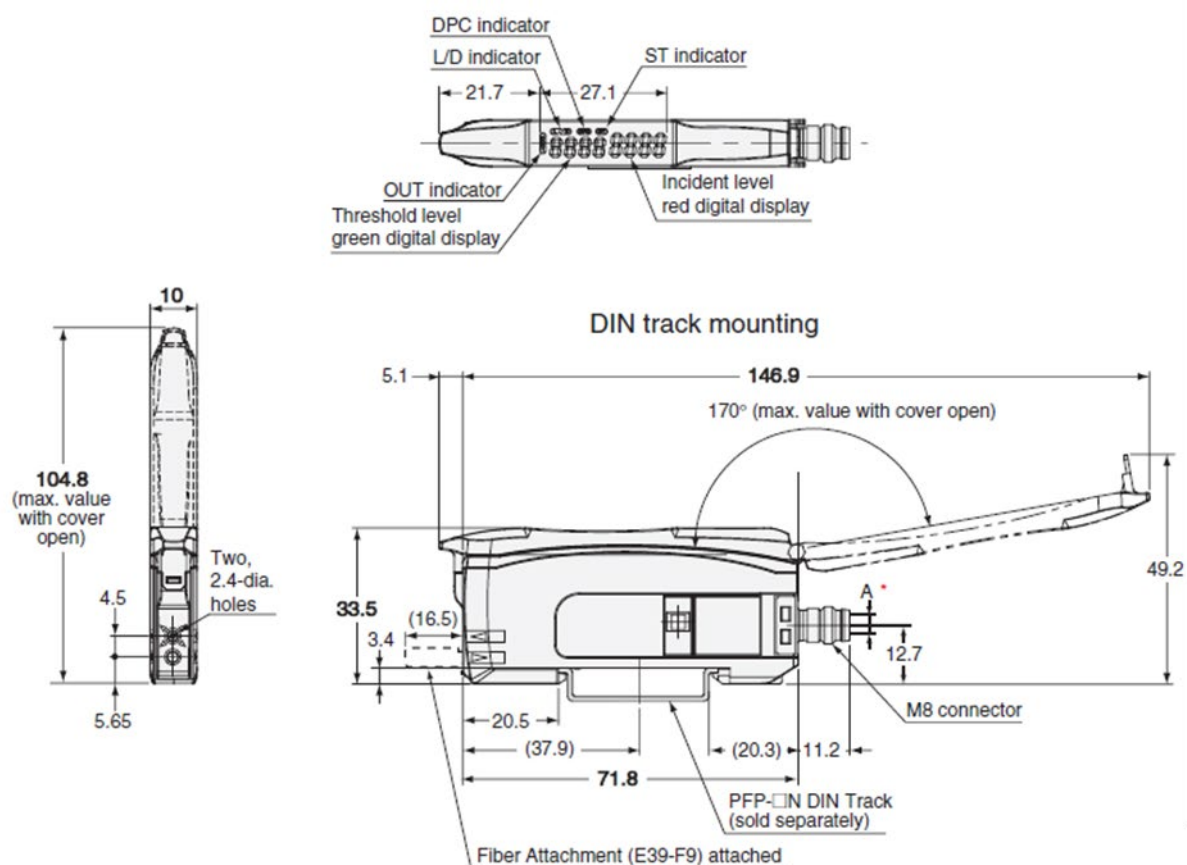
[Dimensions]

Product discontinuation Model E3X-HD Series		
<p>Model E3X-HD11/41</p>  <p>DIN track mounting</p> <p>170° (max. value with cover open)</p> <p>Optical communications</p> <p>PFP-□IN DIN Track (sold separately)</p> <p>Fiber Attachment (E39-F9) attached</p>		

Model E3X-HD6/8

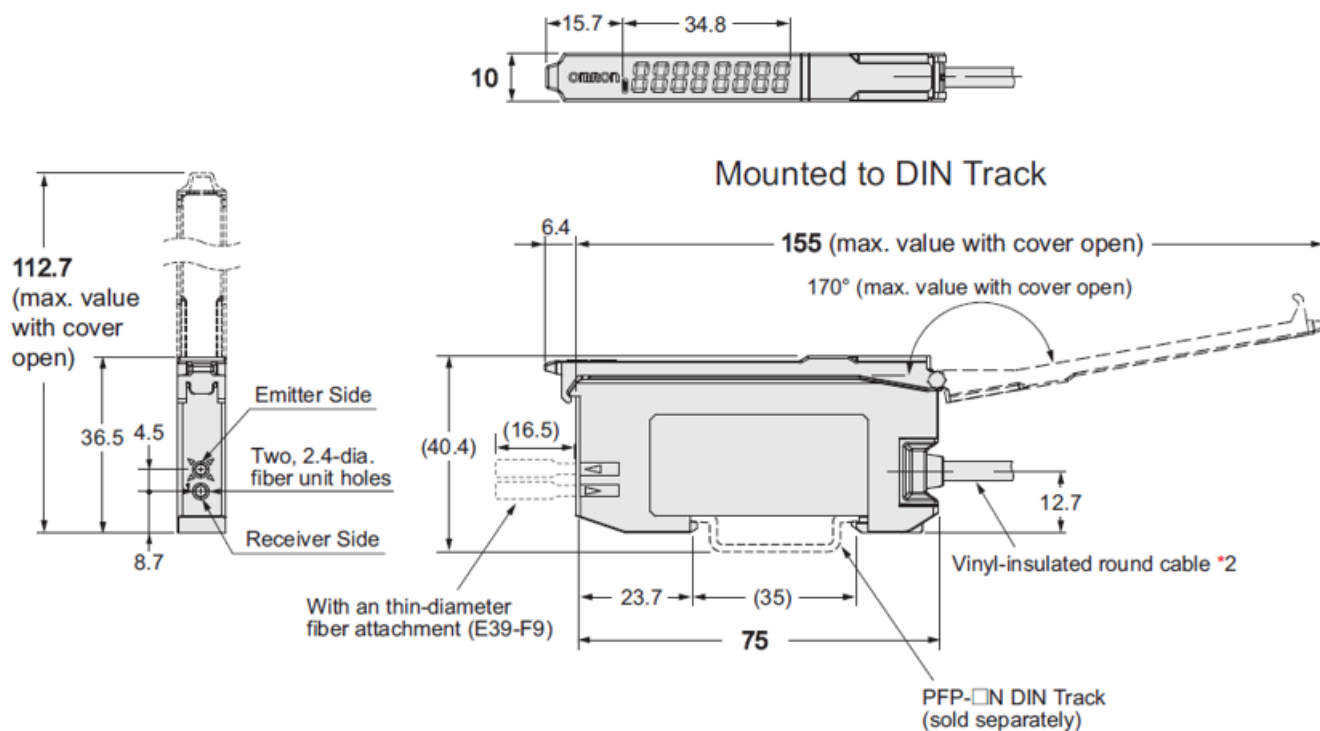


Model E3X-HD14/44

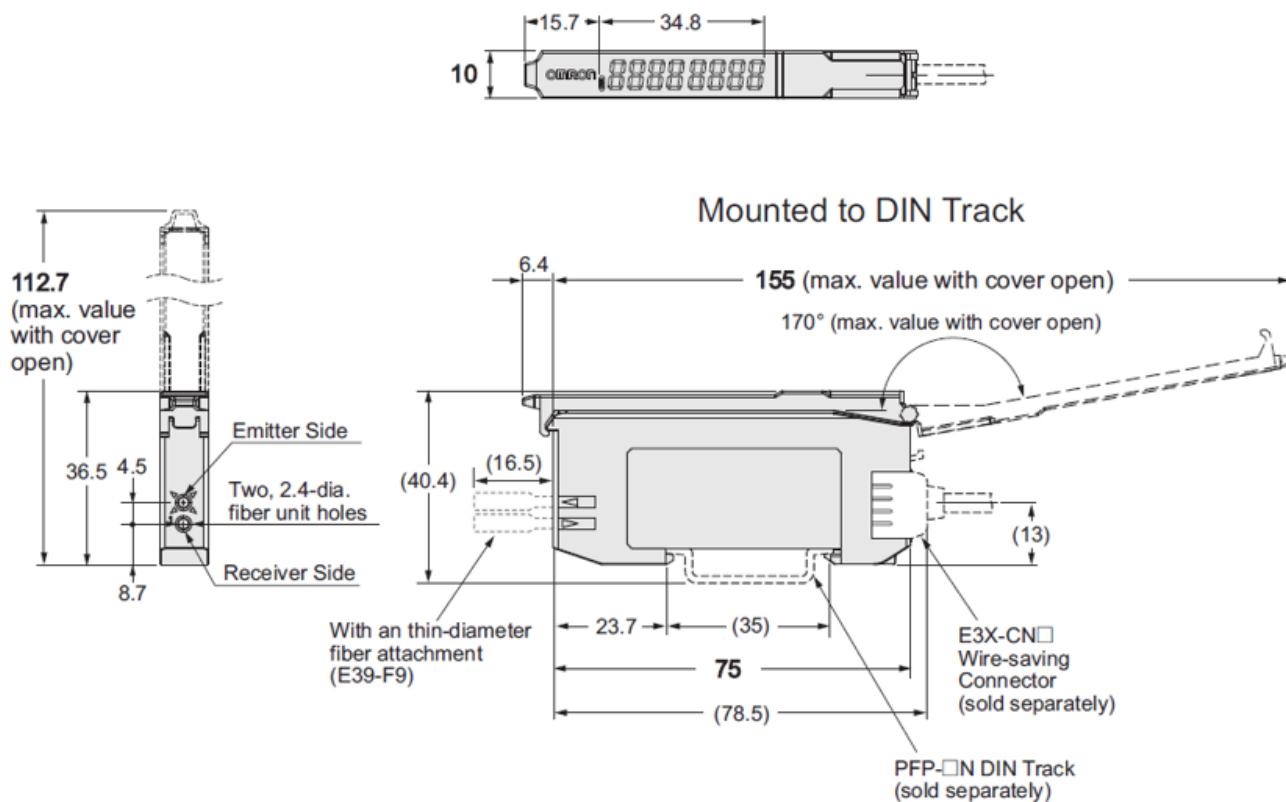


Recommendable replacement
Model E3X-ZV Series

Model E3X-ZV11/41

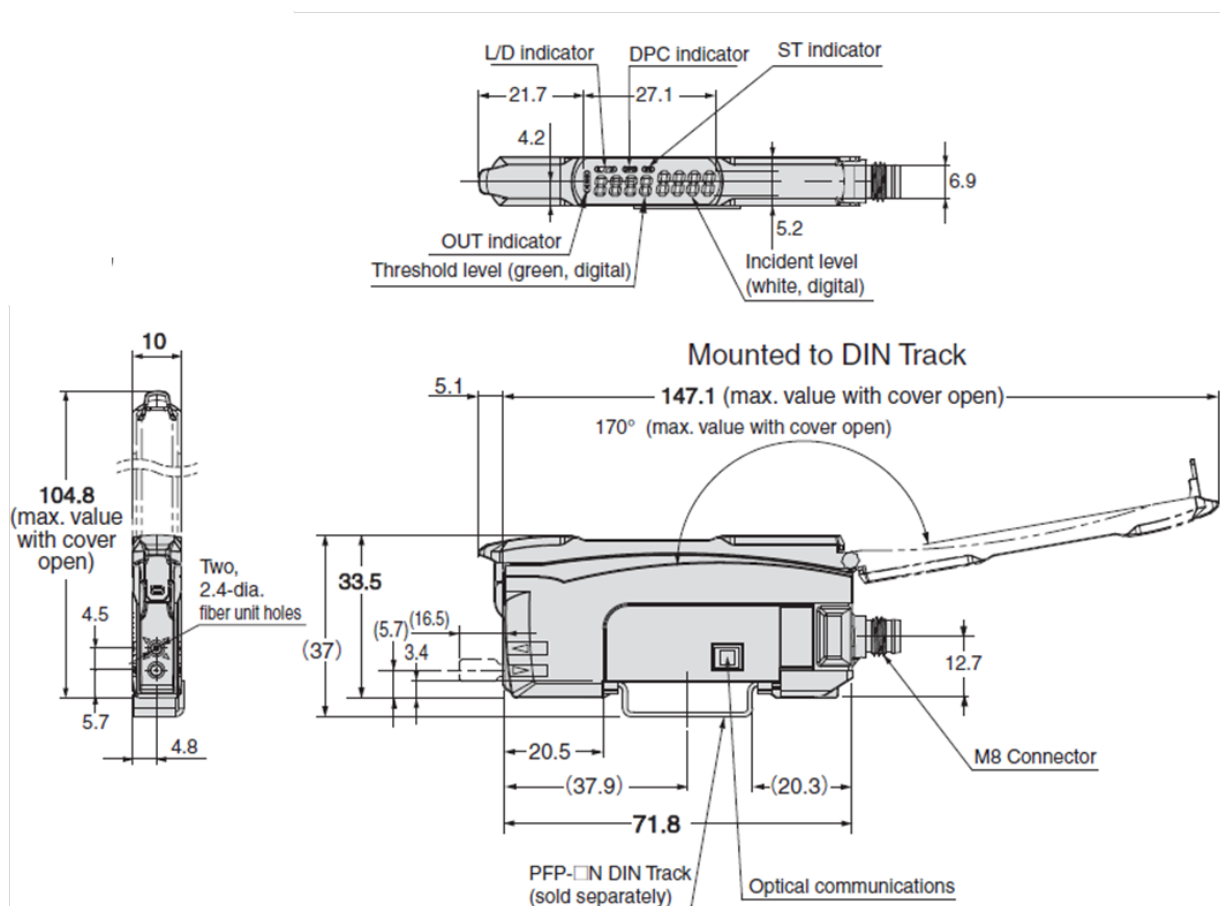


Model E3X-ZV6/8



**Recommendable replacement
Model E3NX-FA Series**

Model E3NX-24/54



[Characteristics]

Item		Product discontinuation Model E3X-HD Series	Recommendable replacement Model E3X-ZV Series
Light source (wavelength)		Red, 4-element LED (625 nm)	
Power supply voltage		12 to 24VDC $\pm 10\%$, ripple (p-p) 10% max.	
Power consumption	Normal mode	At Power Supply Voltage of 24 VDC 720 mW max./30 mA max. At Power Supply Voltage of 12 VDC 720 mW max./60 mA max.	At Power Supply Voltage of 24 VDC 720 mW max./30 mA max. At Power Supply Voltage of 12 VDC 720 mW max./60 mA max.
	Eco function	At Power Supply Voltage of 24 VDC 530 mW max./22 mA max. At Power Supply Voltage of 12 VDC 530 mW max./44 mA max.	At Power Supply Voltage of 24 VDC 530 mW max./22 mA max. At Power Supply Voltage of 12 VDC 530 mW max./44 mA max.
Control output		Load power supply voltage: 26.4 VDC max., open-collector output Load current: Groups of 1 to 3 Amplifier Units: 100mA 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. OFF current: 0.1 mA max.	Load power supply voltage: 26.4 VDC, open collector output type (NPN or PNP output differs depending on the type.) Load current: 100 mA max. (Residual voltage: Load current less than 10 mA: 1 V max., load current 10 to 100 mA: 2 V max.) OFF current: 0.1 mA max.
Protection circuits	Power supply reverse polarity protection	Provided	

Item		Product discontinuation Model E3X-HD Series	Recommendable replacement Model E3X-ZV Series
	Output short-circuit protection	Provided	
	Output reverse polarity protection	Provided	
Response time	Super-high-speed mode	Operate or reset: 50µs (NPN) Operate or reset: 55µs (PNP)	Operate or reset: 50µs
	High-speed mode	Operate or reset: 250µs	Operate or reset: 250µs
	Standard mode	Operate or reset: 1ms	Operate or reset: 1ms
	High-resolution mode	Operate or reset: 16ms	Operate or reset: 16ms
Sensitivity setting		Automatic teaching or manual method	
Functions	Active Threshold Control (ATC)	Yes	Yes
	Dynamic power control (DPC)	Yes	Yes
	Timmer	Select from timer disabled, OFF-delay, ON-delay or one-shot timer	Select from timer disabled, OFF-delay, ON-delay or one-shot timer: 1 to 9,999 ms
	Zero-reset	Yes	Negative values can be displayed. (Threshold value is shifted.)
	Resetting settings	Yes	Select from initial reset (factory defaults) or user reset (saved settings).
	Eco mode	Yes	Select from OFF (digital display lit) and Eco ON (digital display not lit).
	Power tuning	Yes	Select from ON or OFF.
Mutual interference prevention		Optically synchronized (Up to 10 units)	Emission cycle setting switching (up to 4 units)
Ambient illumination (Receiver side)	Incandescent lamp	20,000 lx max.	20,000 lx max.
	Sunlight	30,000 lx max.	30,000 lx max.
Ambient temperature range	Operating	1 to 3 Amplifiers: -25°C to 55°C 4 to 11 Amplifiers: -25°C to 50°C 12 to 16 Amplifiers: -25°C to 45°C	-25°C to 55°C
	Storage	-30°C to 70°C (with no icing or condensation)	
Weight (packed state)	Pre-wired model Connector model	Pre-wired model: Approx. 105 g, Model with connector: Approx. 65 g	Pre-wired model: Approx. 95 g, Model with connector: Approx. 45 g
Materials	Case	Polycarbonate	
	Cover	Polycarbonate	

Item		Product discontinuation Model E3X-HD Series	Recommendable replacement Model E3NX-FA Series
Light source (wavelength)		Red, 4-element LED (625 nm)	
Power supply voltage		12 to 24VDC ±10%, ripple (p-p) 10% max.	10 to 30VDC ±10%, ripple (p-p) 10% max.
Power consumption	Normal mode	At Power Supply Voltage of 24 VDC 720 mW max./30 mA max. At Power Supply Voltage of 12 VDC 720 mW max./60 mA max.	At Power Supply Voltage of 24 VDC 920 mW max./38 mA max.
	Eco function	At Power Supply Voltage of 24 VDC 530 mW max./22 mA max. At Power Supply Voltage of 12 VDC 530 mW max./44 mA max.	At Power Supply Voltage of 24 VDC 680 mW max./28 mA max.
Control output		Load power supply voltage: 26.4 VDC max., open-collector output Load current: Groups of 1 to 3 Amplifier Units: 100mA 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.OFF current: 0.1 mA max.	Load power supply voltage: 30 VDC max., open-collector output (depends on the NPN/PNP output format) Load current: Groups of 1 to 3 Amplifier Units: 100 mA max., OFF current: 0.1 mA max. OFF current: 0.1 mA max.

Item		Product discontinuation Model E3X-HD Series	Recommendable replacement Model E3NX-FA Series
Protection circuits	Power supply reverse polarity protection	Provided	
	Output short-circuit protection	Provided	
	Output reverse polarity protection	Provided	
Response time	Super-high-speed mode	Operate or reset: 50µs (NPN) Operate or reset: 55µs (PNP)	Operate or reset: 30µs
	High-speed mode	Operate or reset: 250µs	Operate or reset: 250µs
	Standard mode	Operate or reset: 1ms	Operate or reset: 1ms
	High-resolution mode	Operate or reset: 16ms	Operate or reset: 16ms
Sensitivity setting		Automatic teaching or manual method	
Functions	Active Threshold Control (ATC)	Yes	Yes
	Dynamic power control (DPC)	Yes	Yes
	Timmer	Select from timer disabled, OFF-delay, ON-delay or one-shot timer	Select from timer disabled, OFF-delay, ON-delay or one-shot timer: 1 to 9,999 ms
	Zero-reset	Yes	Negative values can be displayed. (Threshold value is shifted.)
	Resetting settings	Yes	Select from initial reset (factory defaults) or user reset (saved settings).
	Bank switching	None	Select from banks 1 to 4.
	Eco mode	Yes	Select from OFF (digital display lit) and Eco ON (digital display not lit).
	Power tuning	Yes	Select from ON or OFF.
Mutual interference prevention		Optically synchronized (Up to 10 units)	Optically synchronized (Up to 10 units)
Ambient illumination (Receiver side)	Incandescent lamp	20,000 lx max.	20,000 lx max.
	Sunlight	30,000 lx max.	30,000 lx max.
Ambient temperature range	Operating	1 to 3 Amplifiers: -25°C to 55°C 4 to 11 Amplifiers: -25°C to 50°C 12 to 16 Amplifiers: -25°C to 45°C	1 to 2 Amplifiers: -25°C to 55°C 3 to 10 Amplifiers: -25°C to 50°C 11 to 16 Amplifiers: -25°C to 45°C
	Storage	-30°C to 70°C (with no icing or condensation)	
Weight (packed state)	Pre-wired model	Pre-wired model: Approx. 105 g	Pre-wired model: Approx. 95 g
	Connector model	Model with connector: Approx. 65 g	Model with connector: Approx. 45 g
Materials	Case	Polycarbonate	
	Cover	Polycarbonate	

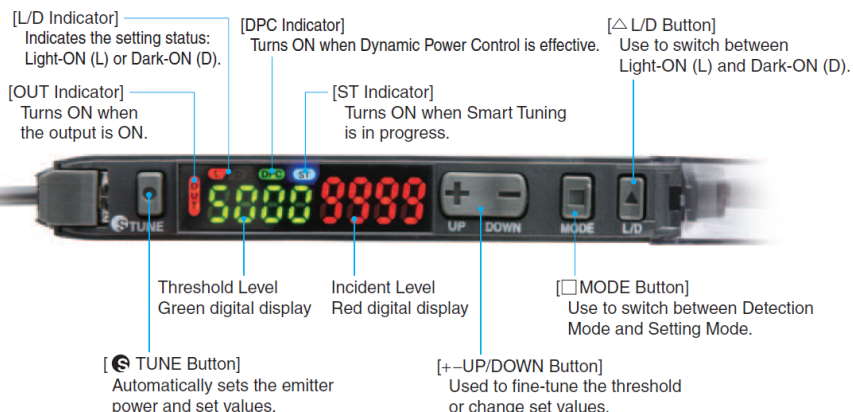
[Operation ratings]

Product discontinuation Model E3X-HD Series	Sensing distance (Unit: mm)				
	Model	Giga-power mode	Standard mode	High-speed mode	Super-high-Speed mode
	E32-T11R	2000	1000	700	280
	E32-CC200 2M	1400	600	400	180
Recommendable replacement Model E3X-ZV Series	Sensing distance (Unit: mm)				
	Model	Giga-power mode	Standard mode	High-speed mode	Super-high-speed mode
	E32-T11R	2000	1000	700	280
	E32-CC200 2M	1400	600	400	180
Recommendable replacement Model E3NX-FA Series	Sensing distance (Unit: mm)				
	Model	Giga-power mode	Standard mode	High-speed mode	Super-high-speed mode
	E32-T11R	3000	1500	1050	280
	E32-CC200 2M	2100	900	600	180

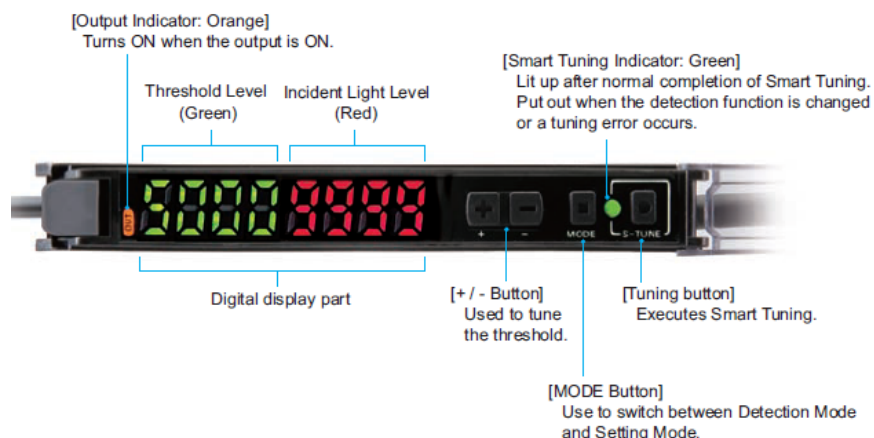
* For additional operating ratings comparison, please, check datasheets.

[Operation methods]

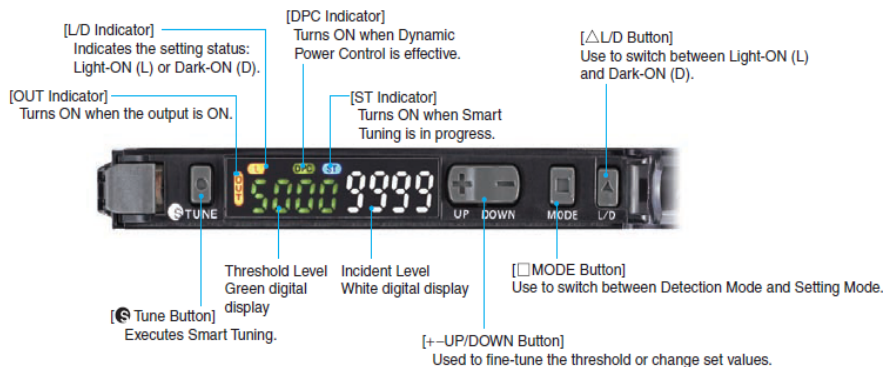
Product discontinuation Model E3X-HD Series



Recommendable replacement Model E3X-ZV Series



Recommendable replacement Model E3NX-FA Series



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