

Product Discontinuation

Fiber Sensor



E3X-HD0
E3X-ECT
E3X-CRT



Recommended Replacement

Fiber Sensor

E3NX-FA0
E3NW-ECT
No recommended replacement

[Final order entry date]

The end of March, 2024.

[Date of The Last Shipping]

The end of June, 2024.

[Caution on recommended replacement]

The fiber amplifier and sensor communication unit connections are not compatible between the discontinued product and the recommended replacement product.

Change the fiber amplifier and sensor communication unit together.

[Difference from discontinued product]

Recommended replacement Model	Body Color	Dimensions	Wire connection	Mounting Dimensions	Characteristics	Operation ratings	Operation methods
E3NX-FA0	**	*	**	**	**	*	**
E3NW-ECT	**	*	**	**	**	**	**

** : Compatible

* : The change is a little/Almost compatible

-- : Not compatible

- : No corresponding specification

[Product Discontinuation and recommended replacement]

Product discontinuation	Recommended replacement
E3X-HD0	E3NX-FA0 OMS
E3X-ECT OMS	E3NW-ECT OMS
E3X-CRT OMS	No recommended replacement

[Body color]

Product discontinuation Model E3X-HD0/E3X-ECT	Recommendable replacement Model E3NX-FA0/E3NW-ECT
Black	

[Dimensions]

Product discontinuation Model E3X-HD0/E3X-ECT	Recommendable replacement Model E3NX-FA0/E3NW-ECT
E3X-HD0 E3X-ECT	E3NX-FA0 E3NW-ECT

[Mounting dimensions]

Product discontinuation Model E3X-HD0/E3X-ECT	Recommendable replacement Model E3NX-FA0/E3NW-ECT
E3X-HD0 35-mm DIN track-mounting E3X-ECT 35-mm DIN track-mounting	E3NX-FA0 35-mm DIN track-mounting E3NW-ECT 35-mm DIN track-mounting

[Characteristics]

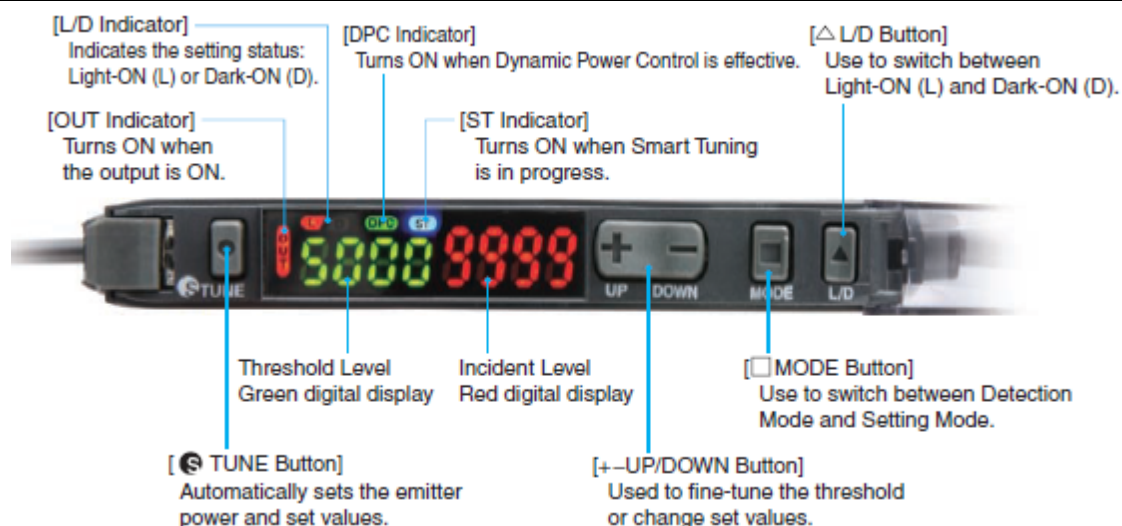
Item	Product discontinuation Model E3X-HD0	Recommendable replacement Model E3NX-FA0
Light source (wavelength)	Red, 4-element LED (625 nm)	
Power supply voltage	Supplied from the connector through the Sensor Communications Unit	
Power consumption	At 24 VDC Normal mode 720 mW max. (Current consumption: 30 mA max.) Eco ON 530 mW max. (Current consumption: 22 mA max.)	At 24 VDC Normal mode 1080 mW max. (Current consumption: 45 mA max.) Eco ON 920 mW max. (Current consumption: 38 mA max.) Eco LO 1020 mW max. (Current consumption: 42 mA max.)
Protection circuits	Power supply reverse polarity protection and output short-circuit protection	
Response time	High-speed mode (HS) Operate or reset: 250 μ s (default setting) Standard mode (Std) Operate or reset: 1 ms Giga-power mode (GIGA) Operate or reset: 16 ms	Super-high-speed mode (SHS) Operate or reset: 32 μ s High-speed mode (HS) Operate or reset: 250 μ s (default setting) Standard mode (Std) Operate or reset: 1 ms Giga-power mode (GIGA) Operate or reset: 16 ms
Maximum connectable Units	with E3X-ECT: 30 units	with E3NW-ECT: 30 units
Mutual interference prevention	Possible for up to 10 units	Possible for up to 10 units 0 (The mutual interference prevention function is disabled if the detection mode is set to super-high-speed mode.)
Auto power control (APC)	Always ON	
Other functions	Power tuning, differential detection, DPC, timer (OFF-delay, ON-delay, or one-shot), zero reset, resetting settings, and Eco mode	
Ambient illumination (Receiver side)	Incandescent lamp: 20,000 lx max., Sunlight: 30,000 lx max.	
Ambient temperature range	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)	
Ambient humidity range	Operating and storage: 35% to 85% (with no condensation)	
Insulation resistance	20 M Ω min. (at 500 VDC)	
Dielectric strength	1,000 VAC at 50/60 Hz for 1 minute	
Vibration resistance (destruction)	10 to 150 Hz with a 0.7-mm double amplitude for 80 minutes each in X, Y, and Z directions	10 to 55 Hz with a 1.5-mm double amplitude for 2 hours each in X, Y, and Z directions
Shock resistance (destruction)	150 m/s ² for 3 times each in X, Y, and Z directions	
Weight (packed state/unit only)	Approx. 65 g/Approx. 25 g	
Materials	Case: Polycarbonate (PC), Cove: Polycarbonate (PC), Cable: PVC	
Accessories	Instruction Manual	
Sensing Distances	Standard mode Through-beam E32-T11R 2M: 1,000mm Reflective E32-D11R 2M: 350mm	Standard mode Through-beam E32-T11R 2M: 1,500mm Reflective E32-D11R 2M: 520mm

Item	Product discontinuation Model E3X-ECT	Recommendable replacement Model E3NW-ECT
Applicable Sensor Amplifier Units	E3X-HD0 E3X-MDA0 E2C-ED0	E3NX-FA0 E3NX-FAH0 E3NX-MA0 E3NX-CA0 E3NC-LA0 E3NC-SA0 E2NC-EA0 E2NC-EA10 E2NC-EA40 E9NC-TA0
Communications power	14 to 26.4 VDC (supply from communication connector)	
Communication method	EtherCAT	
Indicators	L/A IN indicator (yellow), L/A OUT indicator (yellow), PWR indicator (green), RUN indicator (green), ERROR indicator (red), and SS (Sensor Status) indicator (green/red)	L/A IN indicator (green), L/A OUT indicator (green), PWR indicator (green), RUN indicator (green), ERROR indicator (red), and SS (Sensor Status) indicator (green/red)
Vibration resistance	10 to 150 Hz with double amplitude of 0.7 mm, or 50 m/s ² 80 min each in X, Y, and Z directions	10 to 60 Hz with double amplitude of 0.7 mm, or 50 m/s ² 1.5 hours each in X, Y, and Z directions
Shock resistance	150 m/s ² , 3 times each in X, Y, and Z directions	
Dielectric strength	500 VAC 50/60 Hz 1 minute	
Insulation resistance	20MΩ min.	
Ambient operating temperature	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	
Ambient operating humidity	25% to 85% (with no condensation)	
Ambient temperature range	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)	
Ambient humidity range	25% to 85% (with no condensation)	
Storage temperature	-30 to 70°C (with no icing or condensation)	
Storage humidity	25% to 85% (with no condensation)	
Mounting method	35-mm DIN track-mounting	
Weight (packed state/unit only)	Approx. 220 g/Approx. 95 g	Approx. 185 g/Approx. 95 g
Accessories	Power supply connector, connector cover, End Plates for DIN track, and Instruction manual	Power supply connector, E3NW-DS Communications Connector, End Plates for DIN track(2), and Instruction manual
Communications protocol	Dedicated protocol for EtherCAT	
Modulation	Base band	
Baud rate	100Mbps	
Physical layer	100BASE-TX	
Topology	Daisy chain	
Communications media	Category 5 or higher (cable with double, aluminum tape and braided shielding is recommended.)	
Communications distance	Distance between nodes 100 m max.	
Noise immunity	IEC61000-4-4 Based. 1kV or higher	
Node address setting method	Set with decimal rotary switches or software.	
Node address range	1 to 999 Switch settings (Rotary switch 3 pieces) 1 to 65535 (0: Soft setting)	000 to 192 *2 0: Soft setting

[Operation methods]

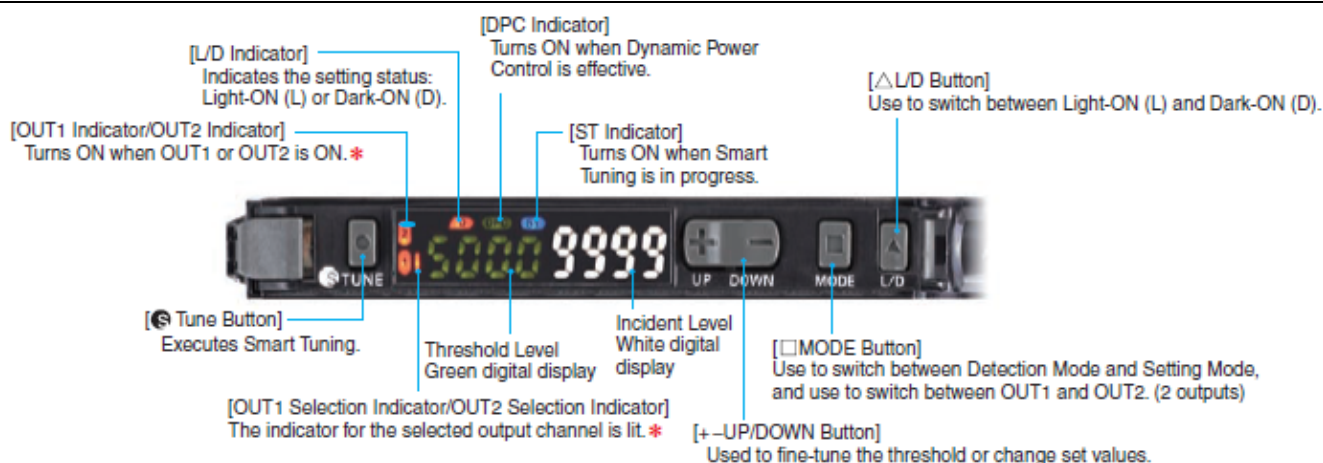
Product discontinuation

Model E3X-HD0



Recommendable replacement

Model E3NW-ECT



* Only OUT1 turns ON for output.

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.