PRODUCT NEWS

Product Discontinuation Notices

OMRON

Issue Date
March 31st, 2023

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Product Discontinuation	Recommended Replacement
Photoelectric Sensor with Built-in Amplifier **E3T-CD11 2M**	Fiber Amplifier **E3X-ZV11 2M** **+** Fiber Units **E32-D11 2M**
Photoelectric Sensor with Built-in Amplifier **E3T-CD13 2M**	Fiber Amplifier **E3X-ZV41 2M** **+** Fiber Units **E32-D11 2M**

[Final order entry date]

The end of December, 2023

[Date of The Last Shipping]

The end of March, 2024

[Caution on recommended replacement]

E3X-ZV11/41 2M + E32-D11 2M

Body Color, Dimensions, Mounting Dimensions, Characteristics, and Operation methods differ.

[Difference from discontinued product]

Recommended replacement Model	Body Color	Dimen-sions	Wire connection	Mounting Dimensions	Charac-teristics	Operation ratings	Operation methods
E3X-ZV11/41 2M E32-D11 2M	--	--	**	--	--	*	--

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

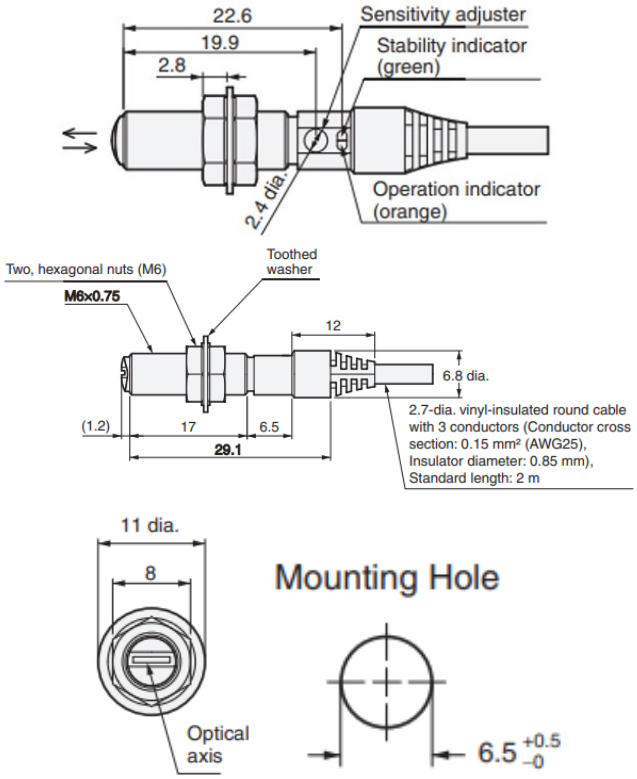
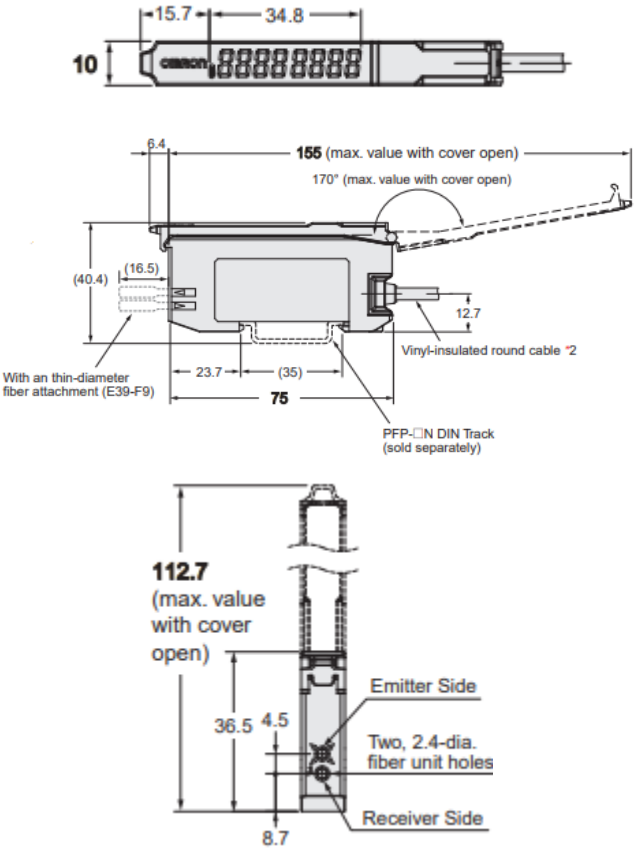
[Product Discontinuation and recommended replacement]

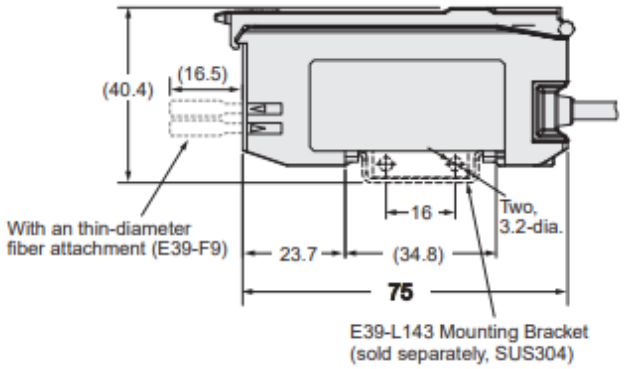
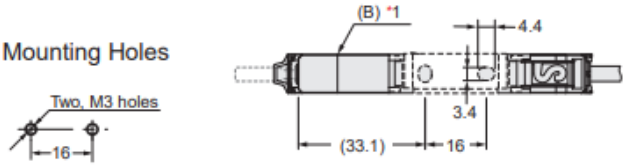
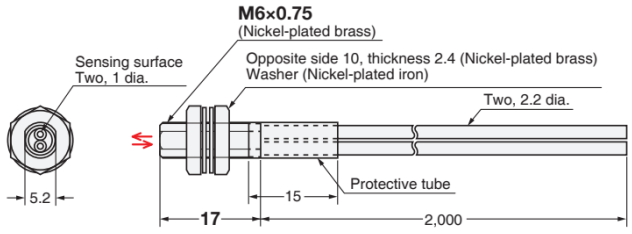
Product discontinuation	Recommended replacement
E3T-CD11/13 2M	E3X-ZV11/41 2M
	E32-D11 2M

[Body color]

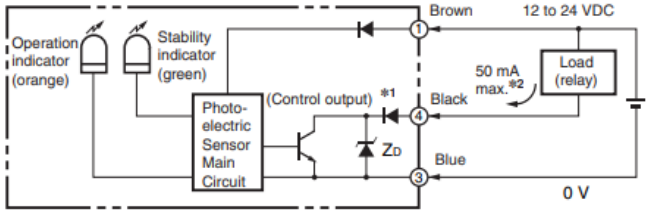
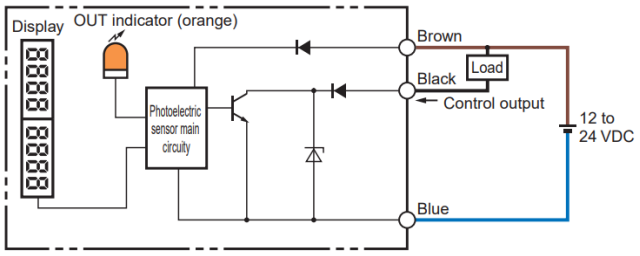
Product discontinuation E3T-CD11/13 2M	Recommendable replacement E3X-ZV11/41 2M + E32-D11 2M
E3T-CD11/13 2M: Silver 	E3X-ZV11/41 2M: Black  E32-D11 2M: Black 

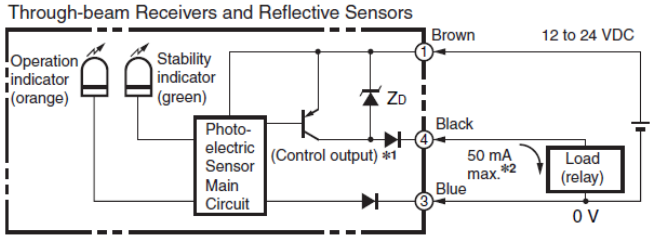
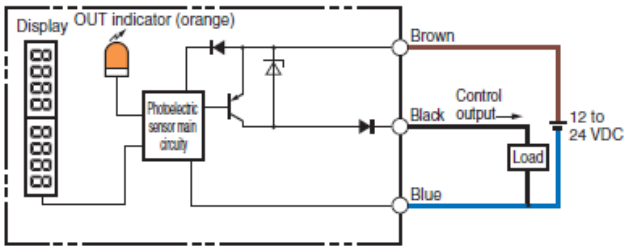
[Dimensions / Mounting dimensions]

Product discontinuation E3T-CD11/13 2M	Recommendable replacement E3X-ZV11/41 2M + E32-D11 2M
 “Same as P5. Please refer to P5”	E3X-ZV11/41 2M  With Mounting Bracket Attached

Product discontinuation E3T-CD11/13 2M	Recommendable replacement E3X-ZV11/41 2M + E32-D11 2M
	  *1. The Mounting Bracket can also be used on side B. *2. Cable Specifications **Outer diameter**: 4.0 dia. **No. of conductors**: 3 **Others**: Conductor cross-section: 0.12 mm²; Insulator dia.: 0.9 mm; Standard cable length: 2 m; Minimum bending radius: 12 mm (Reference value) E32-D11 2M 

[Wire connection]

Product discontinuation E3T-CD11 2M	Recommendable replacement E3X-ZV11 2M / E32-D11 2M
	E3X-ZV11 2M 

Product discontinuation E3T-CD13 2M	Recommendable replacement E3X-ZV41 2M / E32-D11 2M
Through-beam Receivers and Reflective Sensors 	E3X-ZV41 2M 

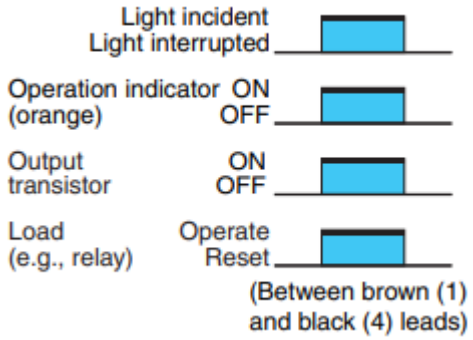
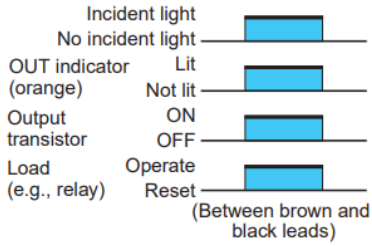
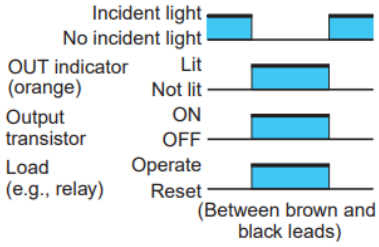
[Characteristics]

Item	Product discontinuation E3T-CD11/13 2M	Recommendable replacement E3X-ZV11/41 2M + E32-D11 2M
Appearance	Cylindrical type (Top-view)	—
Sensing method	Diffuse-reflective	Reflective
Output method	E3T-CD11 : NPN output (Light-ON) E3T-CD13 : PNP output (Light-ON)	E3X-ZV11 : NPN output E3X-ZV41 : PNP output
Sensing distance	3 to 50 mm (100 × 100 mm white paper)	・Super-highspeed mode: 100 mm ・High-speed mode: 240 mm ・Standard mode: 350 mm ・Giga-power mode: 840 mm
Hysteresis (white paper)	15% or less of the sensing distance	—
Light source (wavelength)	Infrared LED (870 nm)	Red, 4-element LED (625 nm)
Power supply voltage	12 to 24 VDC ±10%, ripple (p-p) 10% max.	
Current consumption	20 mA max.	—
Power consumption	—	Normal mode: 720 mW max. (Power supply voltage 24 V: Current consumption 30 mA max. / Power supply voltage 12 V: Current consumption 60 mA max.) Eco function ON: 530 mW max. (Power supply voltage 24 V: Current consumption 22 mA max. / Power supply voltage 12 V: Current consumption 44 mA max.)
Control output	Load power supply voltage: 30 VDC max. Load current: 80 mA max. (residual voltage: 1 V max.) Open-collector output	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.
Indicators	Operation indicator (orange), Stability indicator (green)	7-segment displays (Threshold Level display: green, Incident Light Level display: red) Display direction: Switchable between normal and reversed. Smart Tuning Indicator (green) Standard models only: OUT indicator (orange)
Protection circuits	Power supply reverse polarity protection, Output short-circuit protection	Power supply reverse polarity protection, output short-circuit protection and output reverse polarity protection
Response time	Operate or reset: 0.5 ms max.	・Super-highspeed mode (SHS): Operate or reset: 50 μs ・High-speed mode (HS): Operate or reset: 250 μs *1 ・Standard mode (Stnd): Operate or reset: 1 ms *2 ・Giga-power mode (GIGA): Operate or reset: 16 ms
Sensitivity adjustment	—	Smart Tuning (2-point tuning, power tuning, percentage tuning (−99% to 99%), maximum sensitivity tuning, full auto tuning, position tuning) or manual adjustment

Item		Product discontinuation E3T-CD11/13 2M	Recommendable replacement E3X-ZV11/41 2M + E32-D11 2M
Mutual interference prevention function		—	Emission cycle setting switching type (up to 4 units)
Functions		—	・DPC (Dynamic Power Control): Yes ・ATC (Active Threshold Control): Yes ・Timer: Select from timer disabled, OFF-delay, ON-delay or one-shot timer: 1 to 9,999 ms ・Zero reset: Negative values can be displayed. (Threshold value is shifted.) ・Resetting settings: Select from initial reset (factory defaults) or user reset (saved settings). ・Eco mode: Select from OFF (digital display lit) and Eco ON (digital display not lit). ・Power turning: Select from ON or OFF.
Ambient illumination		Incandescent lamp: 3,000 lx max.	Incandescent lamp: 20,000 lx max., Sunlight: 30,000 lx max.
Ambient temperature range		Operating: −25 to 55°C, Storage: −30 to 70°C (with no icing or condensation)	
Ambient humidity range		Operating or Storage: 35% to 85% (with no condensation)	
Insulation resistance		20 MΩ min. at 500 VDC	
Dielectric strength		500 VAC, 50/60 Hz for 1 min.	1,000 VAC at 50/60 Hz for 1 min
Vibration resistance (destruction)		10 to 55Hz, 1.5-mm double amplitude for 2 hours each in X, Y, and Z directions	
Shock resistance (destruction)		500 m/s^2 3 times each in X, Y, and Z directions	
Degree of protection		IEC 60529 IP65	・E3X-ZV11: Equivalent to IEC standard IP50 (IP40) ・E32-D11: IP67
Connection method		Pre-wired（5 m）	Pre-wired（2 m）
Weight (packed state)		—	Approx. 95 g
Materials	**Case**	SUS303	Polycarbonate (PC).
	Display window	Epoxy	—
	Lens	Polysulfone	—
	Hexagonal nuts	SUS303	—
	Toothed washers	SUS303	—
	Cover	—	Polycarbonate (PC).
	Cable	—	PVC
Accessories		Instruction manual, Hexagonal nuts, Toothed washers, Adjustment driver	Instruction manual, Compliance sheet

*1. Mutual interference prevention function in the Response Time Priority Mode: 2 units: 350 μs; 3 units: 400 μs / In the Unit Number Priority Mode: 4 units: 700 μs
*2. Mutual interference prevention function in the Unit Number Priority Mode: 4 units: 1.6 ms

[Operation ratings]

Product discontinuation E3T-CD11/13 2M	Recommendable replacement E3X-ZV11/41 2M + E32-D11 2M
Timing Chart  	Timing Chart **Operation mode** / **Timing chart** Light-ON  Dark-ON 

[Operation methods]

Product discontinuation E3T-CD11/13 2M	Recommendable replacement E3X-ZV11/41 2M + E32-D11 2M
・Sensitivity adjuster	・+ / - Button: Used to tune the threshold. ・MODE Button: Use to switch between Detection Mode and Setting Mode. ・Tuning button: Executes Smart Tuning.