

Product Discontinuation

Photoelectric Sensor with Built-in Amplifier

E3T-CT12 2M



Recommended Replacement

Fiber Amplifier

E3X-ZV11 2M

+

Fiber Units

E32-T11 2M

Photoelectric Sensor with Built-in Amplifier

E3T-CT14 2M



Fiber Amplifier

E3X-ZV41 2M

+

Fiber Units

E32-T11 2M

Photoelectric Sensor with Built-in Amplifier

E3T-CT22S 2M



Fiber Amplifier

E3X-ZV11 2M

+

Fiber Units

E32-T11 2M

Photoelectric Sensor with Built-in Amplifier

E3T-CT24S 2M



Lens Units

E39-F2

Fiber Amplifier

E3X-ZV41 2M

+

Fiber Units

E32-T11 2M

Lens Units

E39-F2

[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-T11 2M

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

[Difference from discontinued product]

Recommended replacement Model	Body Color	Dimensions	Wire connection	Mounting Dimensions	Characteristics	Operation ratings	Operation methods
E3X-ZV11/41 2M E32-T11 2M E39-F2	--	--	--	--	--	--	--

** : Compatible

* : The change is a little/Almost compatible

-- : Not compatible

- : No corresponding specification

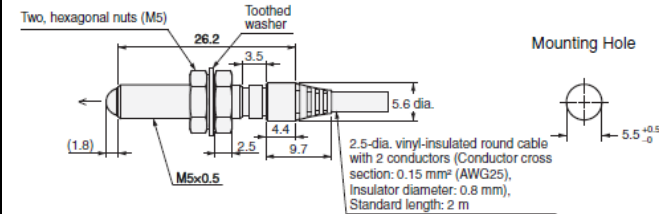
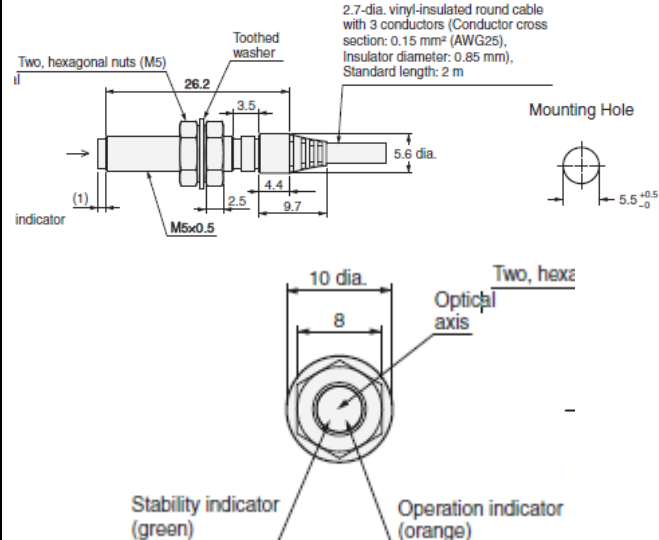
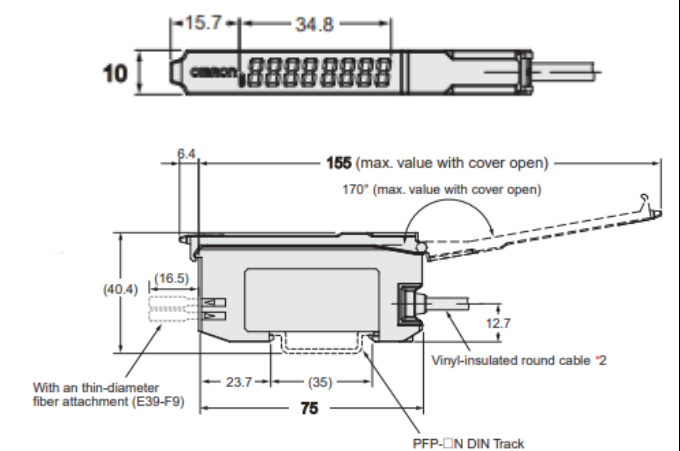
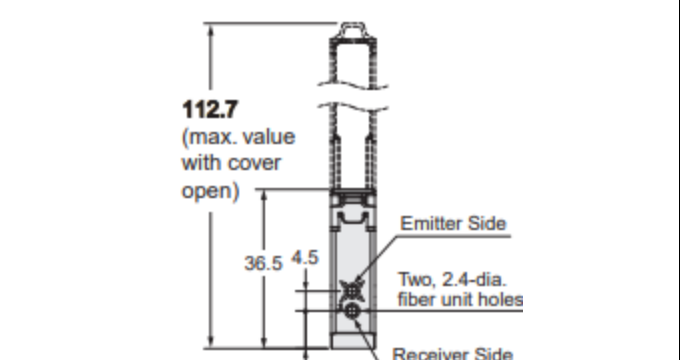
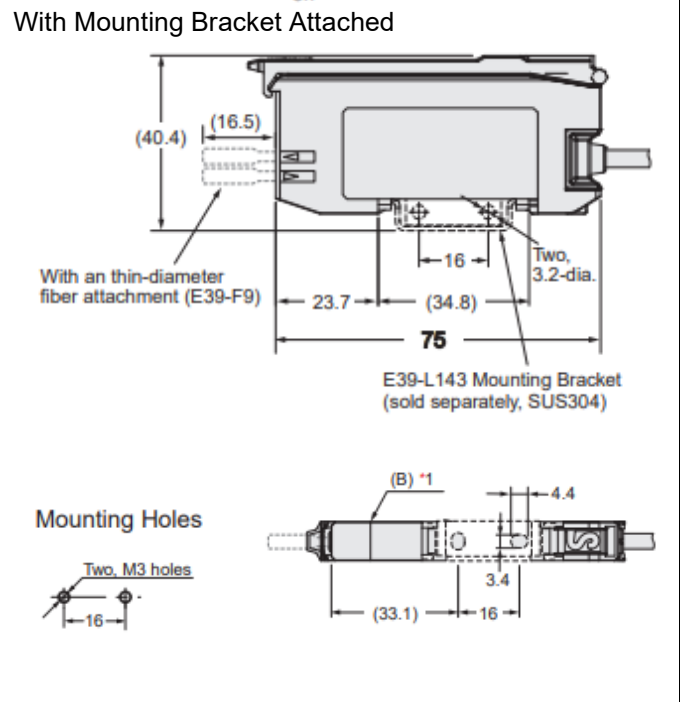
[Product Discontinuation and recommended replacement]

Product discontinuation	Recommended replacement
E3T-CT12/14 2M	E3X-ZV11/41 2M
	E32-T11 2M
E3T-CT22S/24S 2M	E3X-ZV11/41 2M
	E32-T11 2M
	E39-F2

[Body color]

Product discontinuation E3T-CT12/14 2M	Recommendable replacement E3X-ZV11/41 2M + E32-T11 2M
E3T-CT12/14 2M: Silver 	E3X-ZV11/41 2M: Black  E32-T11 2M: Black 
Product discontinuation E3T-CT22S/24S 2M	Recommendable replacement E3X-ZV11/41 2M + E32-T11 2M + E39-F2
E3T-CT22S/24S 2M: Silver 	E3X-ZV11/41 2M: Black  E32-T11 2M: Black  E39-F2 

[Dimensions / Mounting dimensions]

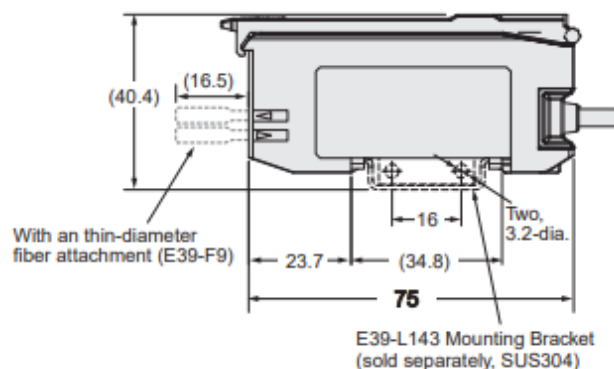
Product discontinuation E3T-CT12/14 2M	Recommendable replacement E3X-ZV11/41 2M + E32-T11 2M
Emitter  Two, hexagonal nuts (M5) Toothed washer Mounting Hole 5.6 dia. 4.4 9.7 2.5 1.8 M5x0.5 2.5-dia. vinyl-insulated round cable with 2 conductors (Conductor cross section: 0.15 mm² (AWG25), Insulator diameter: 0.8 mm), Standard length: 2 m 10 dia. 8 Optical axis Receiver  Two, hexagonal nuts (M5) Toothed washer Mounting Hole 5.6 dia. 4.4 9.7 2.5 1 M5x0.5 2.7-dia. vinyl-insulated round cable with 3 conductors (Conductor cross section: 0.15 mm² (AWG25), Insulator diameter: 0.85 mm), Standard length: 2 m 10 dia. 8 Optical axis Two, hexa Stability indicator (green) Operation indicator (orange)	E3X-ZV11/41 2M  15.7 34.8 10 6.4 155 (max. value with cover open) 170° (max. value with cover open) 12.7 75 35 23.7 40.4 16.5 6.4 Vinyl-insulated round cable *2 PFP-□N DIN Track (sold separately)  112.7 (max. value with cover open) 36.5 4.5 8.7 75 34.8 16 23.7 40.4 16.5 6.4 Emitter Side Two, 2.4-dia. fiber unit holes Receiver Side E39-L143 Mounting Bracket (sold separately, SUS304) With Mounting Bracket Attached  4.4 3.4 16 33.1 16 Two, M3 holes Mounting Holes

Product discontinuation E3T-CT12/14 2M	Recommendable replacement E3X-ZV11/41 2M + E32-T11 2M									
	*1. The Mounting Bracket can also be used on side B. *2. Cable Specifications <table><tr><th>Outer diameter</th><th>No. of conductors</th><th>Others</th></tr><tr><td rowspan="4">4.0 dia.</td><td rowspan="4">3</td><td>Conductor cross-section: 0.12 mm²</td></tr><tr><td>Insulator dia.: 0.9 mm</td></tr><tr><td>Standard cable length: 2 m</td></tr><tr><td>Minimum bending radius: 12 mm (Reference value)</td></tr></table>	Outer diameter	No. of conductors	Others	4.0 dia.	3	Conductor cross-section: 0.12 mm ²	Insulator dia.: 0.9 mm	Standard cable length: 2 m	Minimum bending radius: 12 mm (Reference value)
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		Insulator dia.: 0.9 mm								
		Standard cable length: 2 m								
		Minimum bending radius: 12 mm (Reference value)								
	E32-T11 2M M4x0.7 (Nickel-plated brass) M2.6x0.45 Opposite side 7, thickness 2.4 (Nickel-plated brass) Washer (Nickel-plated iron) Protective tube 2.2 dia. 3.2 3.3 14 15 2,000 Sensing surface: 1 dia.									

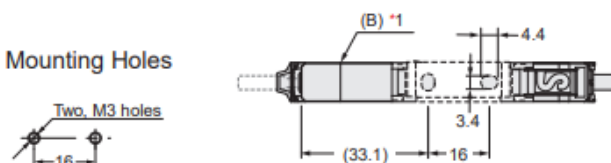
Product discontinuation E3T-CT22S/24S 2M	Recommendable replacement E3X-ZV11/41 2M + E32-T11 2M + E39-F2
Emitter Receiver	E3X-ZV11/41 2M With Mounting Bracket Attached

Product discontinuation
E3T-CT22S/24S 2M

Recommendable replacement
E3X-ZV11/41 2M + E32-T11 2M + E39-F2



Mounting Holes

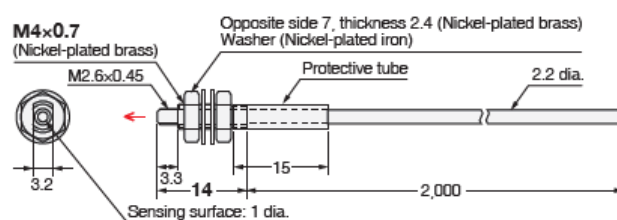


*1. The Mounting Bracket can also be used on side B.

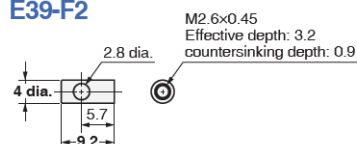
*2. Cable Specifications

Outer diameter	No. of conductors	Others
4.0 dia.	3	Conductor cross-section: 0.12 mm ² Insulator dia.: 0.9 mm Standard cable length: 2 m Minimum bending radius: 12 mm (Reference value)

E32-T11 2M



E39-F2



Material:
Brass for the body and optical glass for the lens itself.

Note: Two per set.

[Wire connection]

Product discontinuation E3T-CT12 2M / E3T-CT22S 2M	Recommendable replacement E3X-ZV11 2M / E32-T11 2M E3X-ZV11 2M
Product discontinuation E3T-CT14 2M / E3T-CT24S 2M Through-beam Receivers and Reflective Sensors	Recommendable replacement E3X-ZV41 2M / E32-T11 2M E3X-ZV41 2M

[Characteristics]

Item	Product discontinuation E3T-CT12/14 2M E3T-CT22S/24S 2M	Recommendable replacement E3X-ZV11/41 2M + E32-T11 2M
Sensing method	Through-Beam	Reflective
Output method	E3T-CT12 : NPN output (Dark-ON) E3T-CT14 : PNP output (Dark-ON) E3T-CT22S : NPN output (Dark-ON) E3T-CT24S : PNP output (Dark-ON)	E3X-ZV11 : NPN output E3X-ZV41 : PNP output
Sensing distance	1 m	•Super-highspeed mode: 100 mm •High-speed mode: 240 mm •Standard mode: 350 mm •Giga-power mode: 840 mm
Hysteresis (white paper)	—	—
Light source (wavelength)	E3T-CT12/14 Red LED (630 nm) E3T-CT22S/24S Red LED (625 nm)	Red, 4-element LED (625 nm)
Power supply voltage	12 to 24 VDC $\pm 10\%$, ripple (p-p) 10% max.	
Current consumption	30 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.)

Item	Product discontinuation E3T-CT12/14 2M E3T-CT22S/24S 2M	Recommendable replacement E3X-ZV11/41 2M + E32-T11 2M
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 (Std): 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
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

Item		Product discontinuation E3T-CT12/14 2M E3T-CT22S/24S 2M	Recommendable replacement E3X-ZV11/41 2M + E32-T11 2M
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-T11: 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-CT12/14 2M E3T-CT22S/24S 2M	Recommendable replacement E3X-ZV11/41 2M + E32-T11 2M																						
Timing Chart (Between brown (1) and black (4) leads)	Timing Chart <table border="1"> <thead> <tr> <th>Operation mode</th><th>Timing chart</th></tr> </thead> <tbody> <tr> <td rowspan="6">Light-ON</td><td>Incident light (blue bar)</td></tr> <tr> <td>No incident light (blue bar)</td></tr> <tr> <td>OUT indicator (orange) Lit (blue bar)</td></tr> <tr> <td>Not lit (blue bar)</td></tr> <tr> <td>Output transistor ON (blue bar)</td></tr> <tr> <td>OFF (blue bar)</td></tr> <tr> <td rowspan="12">Dark-ON</td><td>Load (e.g., relay) Operate (blue bar)</td></tr> <tr> <td>Reset (blue bar)</td></tr> <tr> <td>(Between brown and black leads)</td></tr> <tr> <td>Incident light (blue bar)</td></tr> <tr> <td>No incident light (blue bar)</td></tr> <tr> <td>OUT indicator (orange) Lit (blue bar)</td></tr> <tr> <td>Not lit (blue bar)</td></tr> <tr> <td>Output transistor ON (blue bar)</td></tr> <tr> <td>OFF (blue bar)</td></tr> <tr> <td>Load (e.g., relay) Operate (blue bar)</td></tr> <tr> <td>Reset (blue bar)</td></tr> <tr> <td>(Between brown and black leads)</td></tr> </tbody> </table>	Operation mode	Timing chart	Light-ON	Incident light (blue bar)	No incident light (blue bar)	OUT indicator (orange) Lit (blue bar)	Not lit (blue bar)	Output transistor ON (blue bar)	OFF (blue bar)	Dark-ON	Load (e.g., relay) Operate (blue bar)	Reset (blue bar)	(Between brown and black leads)	Incident light (blue bar)	No incident light (blue bar)	OUT indicator (orange) Lit (blue bar)	Not lit (blue bar)	Output transistor ON (blue bar)	OFF (blue bar)	Load (e.g., relay) Operate (blue bar)	Reset (blue bar)	(Between brown and black leads)
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[Operation methods]

Product discontinuation E3T-CT12/14 2M E3T-CT22S/24S 2M	Recommendable replacement E3X-ZV11/41 2M + E32-T11 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.

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.