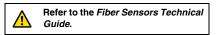
Sensor Communications Unit (CompoNet)

CompoNet Sensor Communications Unit that Simplifies Sensor Setting Management

- Transmit ON/OFF signals to a PLC without a program (CompoNet communication slave function).
- Supports operations such as reading, writing, and teaching detection amounts, threshold values, and function settings (by way of the explicit message function).
- Supports wire saving by requiring only the wiring necessary to connect the communication cable to the amplifier placed next to the E3X-CRT.
- Supports connection 16 pcs amplifier (max).*
- * Change by operation mode





For the most recent information on models that have been certified for safety standards, refer to your OMRON website.

Ordering Information

CompoNet Sensor Communications Unit

I/O Classification	Allocated bits	Internal circuit power supply	Power Supply Voltage	Model
Change by operation mode *1		Supplied along with communications power	nunications power 24 VDC	

Applicable Sensor Amplifier Units

Unit	Characteristic	Connection Method	Power Supply	Model
Standard fiber amplifier unit	General-purpose fiber amplifier unit with simple settings and operation		Supplied along with a power supply connector.	E3X-HD0
2CH fiber amplifier unit	Two-channel fiber amplifier unit to which two fibers can be connected	Connect to a communications unit Only by connector		E3X-MDA0
Laser sensor amplifier unit	Laser sensor amplifier unit to which three types of beam laser sensors can be connected			E3C-LDA0
Proximity sensor amplifier unit	Proximity sensor amplifier unit on which highly accurate sensitivity settings can be made easily			E2C-EDA0

Note: Limitation about amplifier setting: See the E3X-ECT User's manual (Man No.E413).

Ratings and Specifications

Communications power	14 to 26.4 VDC (supply from communication connector)			
Power supply wattage and current	2.4 W (max) (Not include sensors current) 100 mA (max) 24 VDC (Not include sensors current)			
Communication method	CompoNet			
Functions	I/O communication, explicit message, Sensor Error Out			
Indicators	MS (green/red), NS (green/red),SS (Sensor Status) (green/red)			
Vibration resistance	10 to 150 Hz with double-amplitude of 0.7 mm or 50 $\mbox{m/s}^2$ 80 minutes			
Shock resistance	150 m/s ² 3 directions each 3 times			
Dielectric strength	500 VAC 50/60 Hz 1 min			
Insulation resistance	20 MΩ min.			
Ambient operating temperature	0 to 55°C *2			
Ambient operating humidity	25% to 85% (with no condensation)			
Storage temperature	temperature -30 to +70°C (No icing or condensation)			
Storage humidity	25% to 85% (No icing or condensation)			
Installation Mounted on 35-mm DIN Track				
Accessories	Connector Cover, End Plates for DIN Track			
Weight (packed state/unit only) Approx. 220 g/Approx. 95 g				
*1 The E2V CDT	bas two operating modes: I/O mode 1 and I/O mode 2			

*1. The E3X-CRT has two operating modes; I/O mode 1 and I/O mode 2. The following table gives the differences between these modes.

CompoNet is a registered trademark of ODVA.

		I/O classification	Number of allocated points	Maximum number of interconnected
I/O r	node 1	Input Unit	Input: 32	15
I/O r	node 2	I/O Unit	Input: 64 Output: 64	16

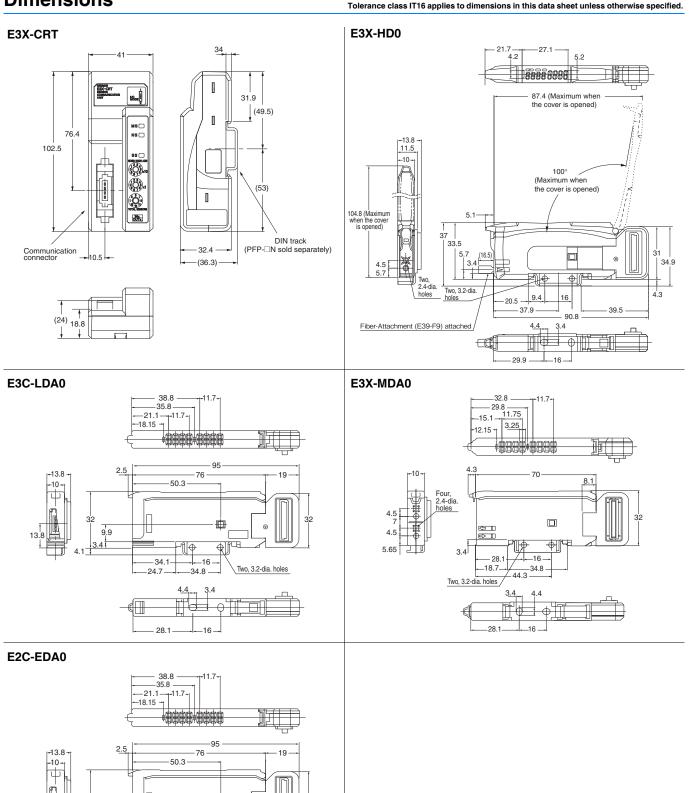
*2. Limitation of the temperature by connection amplifiers number below.

1 to 2 : 0 to 55°C, 3 to 10: 0 to 50°C, 11 to 16: 0 to 45°C

E3X-CRT

Dimensions

(Unit: mm) Tolerance class IT16 applies to dimensions in this data sheet unless otherwise specified.



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Read and understand this catalog.

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