

E3X-DRT21/SRT21/CIF11

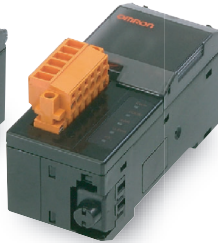
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Three New Communications Units for Fiber Amplifiers

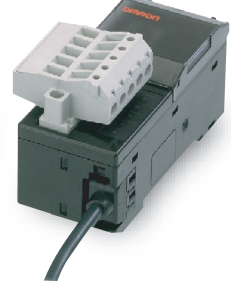
DeviceNet Communications Unit
E3X-DRT21



CompoBus/S Communications Unit
E3X-SRT21



RS-422 Communications Unit
E3X-CIF11



Features

Reduced Wiring
New connectors enable wiring and space reductions, as well as easier maintenance.

Create the Required Number of Channels by Connecting Up To 16 Units (14 Units for CompoBus/S).

A New Amplifier That Monitors the ON/OFF Incident Level. **E3X-DA6-P**
The peak data and bottom data are updated according to the ON/OFF timing of the Sensor. This feature enables monitoring of aging and remote setting of thresholds, even in applications with a high ON/OFF frequency. (One is updated when the Sensor turns ON, and the other when the Sensor turns OFF, depending on whether the Sensor is light-ON or dark-ON.)

Wiring-reduction Connector **E3X-CN02**

Terminal-block Unit **E39-TM1**
Using a Terminal-block Unit allows input from Basic Switches.

Mobile Console
Connecting a hand-held Mobile Console enables easy setting and monitoring.

Programmable Controller

DeviceNet

RS422

Optical Communications

Fibers

Basic Switch

Incident level data

Threshold value

Bottom data

Peak data

Ordering Information

Communications Units

Communications method	Model
DeviceNet	E3X-DRT21
CompoBus/S	E3X-SRT21
RS-422	E3X-CIF11

Terminal-block Unit

Communications method	Model
All communications methods	E39-TM1

Fiber Amplifier with Incident Level Monitoring Function*

Communications method	Model
All communications methods	E3X-DA6-P

Wiring-reduction Connector*

Communications method	Model
---	E3X-CN02

*Order Fiber Amplifiers and Wiring-reduction Connectors as sets.

Ratings and Specifications

Communications Units

Item	Model	E3X-DRT21	E3X-SRT21	E3X-CIF11
Communications method		DeviceNet	CompoBus/S	RS-422
Connectable Fiber Amplifiers *1		*2 E3X-DA6, E3X-DA8, E3X-DAB6, E3X-DAB8, E3X-DAG6, E3X-DAG8 E3X-DA6TW, E3X-DA8TW, E3X-DA6-P, E39-TM1		
Number of connectable Fiber Amplifiers		16 max.	14 max.	16 max.
Power supply voltage		11 to 25 VDC	14 to 26.4 VDC	11.4 to 26.4 VDC (12 VDC -5% to 24 VDC +10%)
Internal current consumption *3		70 mA max.	30 mA max.	40 mA max.
Ambient temperature		Operating: -20 to 55°C, Storage: -30 to 70°C (with no icing or condensation)		
Ambient humidity		35% to 85% (with no condensation)		
Weight (packed state)		Approx. 150 g		Approx. 200 g

*1. Connection is not supported for Pre-wired Amplifiers (e.g., E3X-DA11-N) and water-resistant Amplifiers (e.g., E3X-DA11V).

*2. Connection is supported for products manufactured on or after the date shown below (indicated with the lot number).

Connection is also supported for models with "MADE IN JAPAN" on the cover underlined.

Lot No. 1 8 6 0 1 — Manufactured on 18 June 2001.

↑ ↑ ↑ Last two digits of the year of manufacture.

↑ ↑ ↑ Month of manufacture. October, November, and December are represented with X, Y, and Z respectively.

↑ Day of manufacture.

*3. Does not include the current supplied to the Fiber Amplifier.

Terminal-block Unit

Item	Model	E39-TM1
Power supply voltage*1		12 to 24 VDC ±10%, ripple (p-p) 10% max.
Sensor power supply		11 to 23 VDC (power supply voltage -1 V)
Current consumption		40 mA max. + Sensor current consumption (total: 100 mA max.)
Response speed		1.2 ms max.
Number of inputs		1 point
Input signals		NPN/PNP no-voltage input (contact and non-contact), switchable
Input operating configuration		N.O./ N.C., switchable
Indicators		Input signal display (orange)
Ambient temperature*2		Operating: Groups of 1 to 3 Units: -25 to 55°C (with no icing or condensation) Groups of 4 to 8 Units: -25 to 45°C (with no icing or condensation) Groups of 9 to 16 Units: -25 to 40°C (with no icing or condensation) Storage: -30 to 70°C

*1. The power supply for the E39-TM1 is provided from the Communications Unit (order separately). Use an E3X-CN02 (order separately) Connector.

*2. When 4 or more Units are grouped together, the current consumption per Unit must not exceed 75 mA. When using together with the E3X-DA-N Fiber Amplifiers, connect the E39-TM1 Units at the end of the group. In this case, the upper limit for the ambient temperature for the E3X-DA-N Amplifiers is the rated upper limit -5°C.

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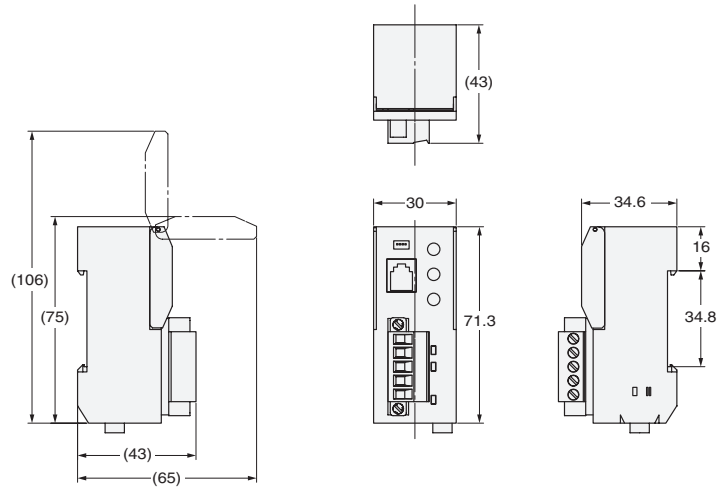
(Unit: mm)

Dimensions

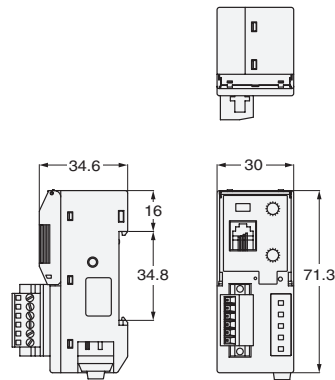
Unless otherwise specified, the tolerance class IT16 is used for dimensions in this data sheet.

Communications Units

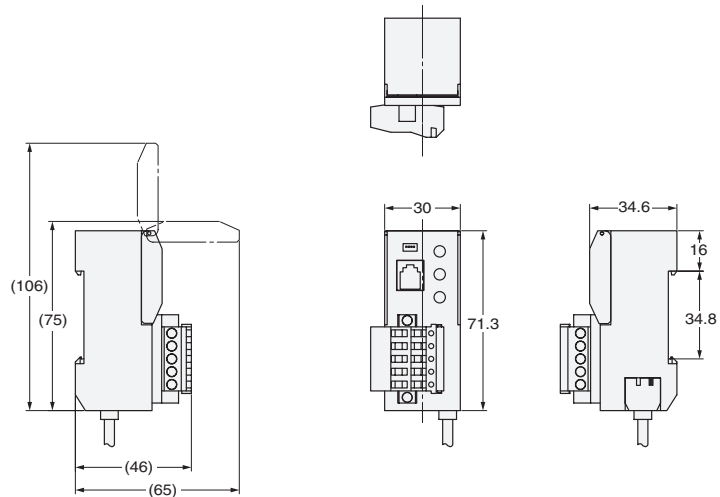
E3X-DRT21



E3X-SRT21

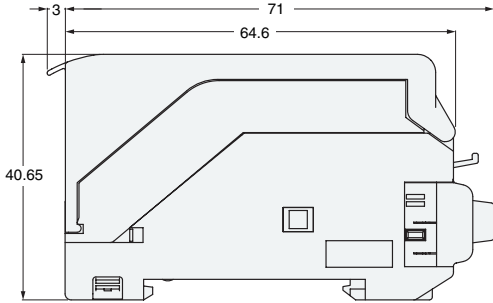
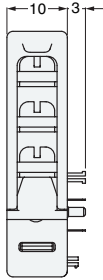


E3X-CIF11



Terminal-block Unit

E39-TM1



In the interest of product improvement, specifications are subject to change without notice.

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- Nuclear energy control systems, combustion systems, railroad systems, aviation systems, medical equipment, amusement machines, vehicles, safety equipment, and installations subject to separate industry or government regulations.
- Systems, machines, and equipment that could present a risk to life or property.

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Dimensions and weights are nominal and are not to be used for manufacturing purposes, even when tolerances are shown.

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2008.9

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Industrial Automation Company

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