

Available Models

Communications Units

Communications method	Model number
DeviceNet	E3X-DRT21
CompoBus/S	E3X-SRT21
RS422	E3X-CIF11

Terminal-block Unit

Communications method	Model number
All communications methods	E39-TM1

Fiber Amplifier with Incident Level Monitoring Function

Communications method	Model number
All communications methods	E3X-DA6-P

Wiring-reduction Connector

Communications method	Model number
—	E3X-CN02

Order Fiber Amplifiers and Wiring-reduction Connectors as sets.

Ratings/Performance Characteristics

Communications Units

Item	Model number	E3X-DRT21	E3X-SRT21	E3X-CIF11
Communications method		DeviceNet	CompoBus/S	RS422
Connectable Fiber Amplifiers (See note 1.)		(See note 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.
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 (See note 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

Note 1: Connection is not supported for Amplifier Units with cables (e.g., E3X-DA11-N) and water-resistant Amplifier Units (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 number 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.

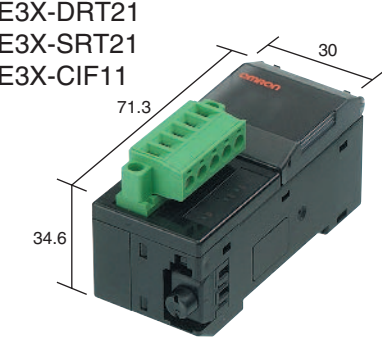
Terminal-block Unit

Item	Model number	E39-TM1
Supply voltage (See note 1.)		12 to 24 VDC ±10%, ripple (p-p) 10% max.
Sensor power supply		11 to 23 VDC (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 (See note 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

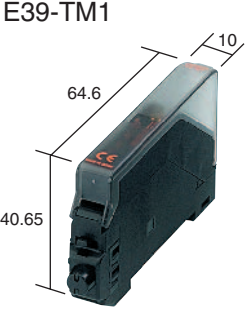
Note 1: The power supply for the E39-TM1 is provided from the Communications Unit (order separately). Use an E3X-CN02 (order separately) Connector.
2: When 4 or more Units are grouped together, the current consumption per Unit must not exceed 75 mA.
When using together with the E3X-DA-N Fiber Amplifiers, 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 Amplifier Units is the rated upper limit -5°C.

Dimensions (Units: mm)

Communications Units



Terminal-block Unit



This document provides information mainly for selecting suitable models. Please read the document Z152 carefully for information that the user must understand and accept before purchase, including information on warranty, limitations of liability, and precautions.



Fiber Amplifier Communications Unit

Three New Communications Units for Fiber Amplifiers



For multi-vendor DeviceNet networks.
DeviceNet Communications Unit
E3X-DRT21



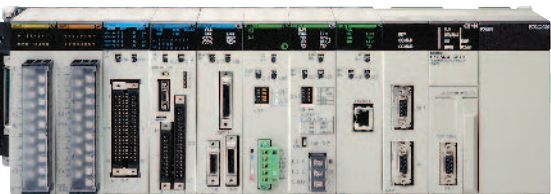
For high-speed (0.5 ms) wiring-reduction buses.
CompoBus/S Communications Unit
E3X-SRT21



RS422 Communications Unit
E3X-CIF11

Expand the scope of fiber sensor applications with these 3 Communications Units.

The E3X-DA-N, a Fiber Amplifier that represents the ultimate in ease of use and high performance, has advanced to a new level. With the arrival of these Communications Interface Units, E3X-DA-N Fiber Amplifiers can now be used with DeviceNet, which allows the creation of multi-vendor networks, CompoBus, which enables communications via high-speed, wiring-reduction buses, and RS-422. Setting, monitoring, and teaching operations that previously were only possible using a Mobile Console, can now be performed via Communications Units (E3X-DRT21 and E3X-CIF11 only).



Programmable Controller

DeviceNet

RS422

Fibers



Mobile Console

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

Terminal-block Unit E39-TM1

Using a Terminal-block Unit allows input from microswitches.

Optical Communications

Wiring-reduction Connector

E3X-CN02

Microswitch

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. (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.) This feature enables monitoring of aging and remote setting of thresholds, even in applications with a high ON/OFF frequency.

