JUNCTION SLAVE (EtherCAT)	MODEL	**JC-ECT**

BEFORE USE ....

Thank you for choosing us. Before use, please check contents of the package you received as outlined below.
If you have any problems or questions with the product, please contact our sales office or representatives.

■PACKAGE INCLUDES:

Junction slave...(1)
Mounter slider..(1)

■MODEL NO.

Confirm Model No. marking on the product to be exactly what you ordered.

■INSTRUCTION MANUAL

This manual describes necessary points of caution when you use this product, including installation, connection and basic maintenance procedures.

POINTS OF CAUTION

■ POWER INPUT RATING & OPERATIONAL RANGE

• Locate the power input rating marked on the product and confirm its operational range as indicated below:
24V DC rating: 24V ±10%
Power consumption:
JC-ECT-4: approx. 2.0W,   JC-ECT-8: approx. 4.3W

■ GENERAL PRECAUTIONS

• Before you remove the unit or mount it, turn off the power supply and input signal for safety.

■ ENVIRONMENT

• Indoor use
• When heavy dust or metal particles are present in the air, install the unit inside proper housing with sufficient ventilation.
• Do not install the unit where it is subjected to continuous vibration. Do not subject the unit to physical impact.
• Environmental temperature must be within -10 to +55°C (14 to 131°F) with relative humidity within 10 to 90% RH in order to ensure adequate life span and operation.

■ WIRING

• Do not install cables close to noise sources (relay drive cable, high frequency line, etc.).
• Do not bind these cables together with those in which noises are present. Do not install them in the same duct.
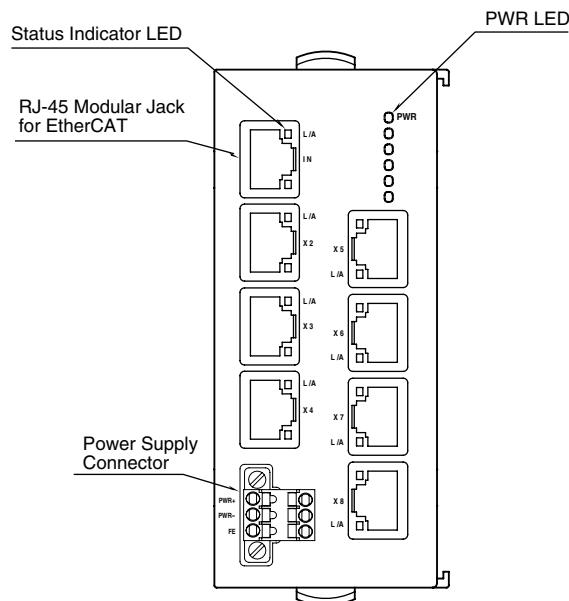
■ AND ....

• The unit is designed to function as soon as power is supplied, however, a warm up for 10 minutes is required for satisfying complete performance described in the data sheet.

COMPONENT IDENTIFICATION

■ **MODULE TYPE: 4 (4 ports)**

Status Indicator LED

PWR LED

RJ-45 Modular Jack
for EtherCAT

Power Supply
Connector
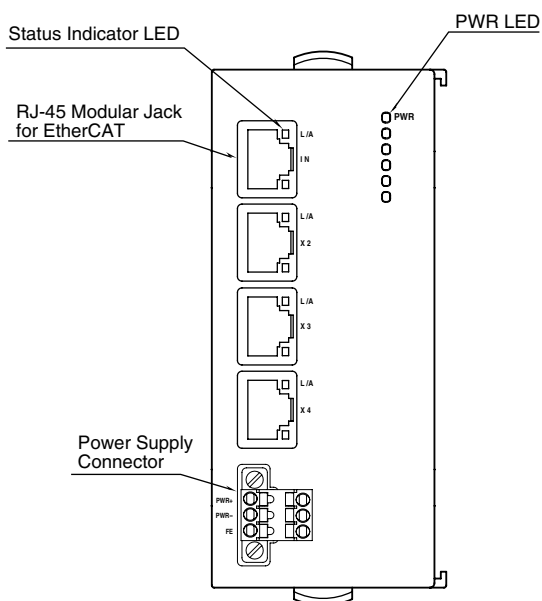
■ **MODULE TYPE: 8 (8 ports)**

Status Indicator LED

PWR LED

RJ-45 Modular Jack
for EtherCAT

Power Supply
Connector

■ **STATUS INDICATOR LED**

ID	FUNCTION	COLOR	STATUS	
PWR	Main unit internal power	Green	OFF	Error
			ON	Normal
L/A	Port link / activity status	Green	OFF	No Link
			Flickering	Link and activity
			ON	Link without activity

| Flickering	50ms-On, 50ms-Off

WIRING INSTRUCTIONS

■ **POWER SUPPLY**

Cable connector: TFMC1,5 / 5–STF–3,5
(Phoenix Contact) (included in the package)
Applicable wire size: 0.2 – 1.5 mm²; stripped length 10 mm
Recommended solderless terminal
• AI0,25–10YE   0.25 mm² (Phoenix Contact)
• AI0,34–10TQ   0.34 mm² (Phoenix Contact)
• AI0,5–10WH   0.5 mm² (Phoenix Contact)
• AI0,75–10GY   0.75 mm² (Phoenix Contact)
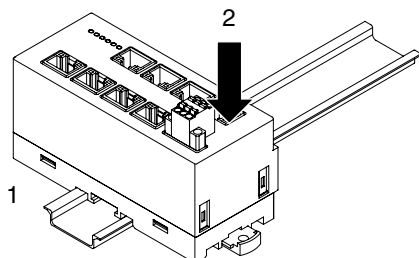• A1–10   1.0 mm² (Phoenix Contact)
• A1,5–10   1.5 mm² (Phoenix Contact)
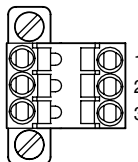
1. PWR +   Power Supply
2. PWR –   Power Supply
3. FE   Functional earth

MOUNTING INSTRUCTIONS

■ **DIN RAIL MOUNTING**

• Mounting

1) Hook the upper hook at the rear side of the base onto the DIN rail.
2) Push the lower part of the unit in the direction of the arrow until the base is firmly fixed to the DIN rail.

• Dismounting

1) Push down the slider using the tip of a minus screwdriver.
2) Pull out the lower part of the unit.
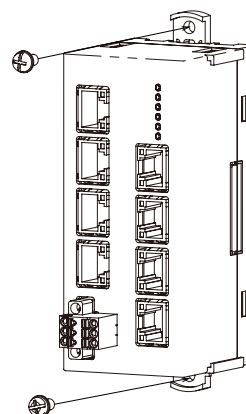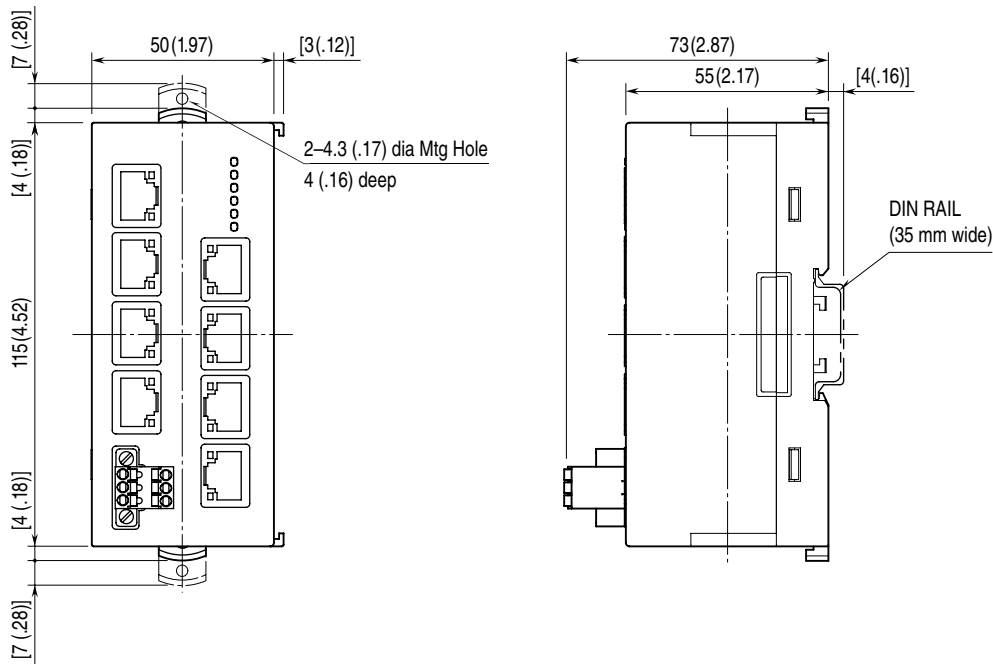3) Remove the upper part of the unit from the DIN rail.
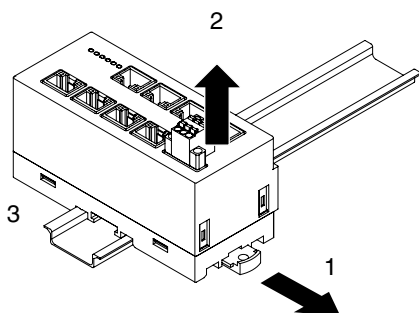
■ **SURFACE MOUNTING**

1) Insert the mounter slider along the rail at the back of the unit as shown below, and push in the rail until it clicks once.
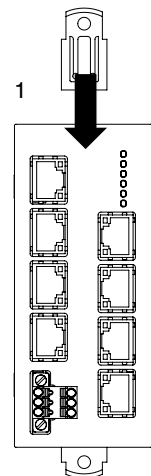
2) Fix the unit with M4 screws referring to "MOUNTING REQUIREMENTS unit: mm (inch)" on page 5.
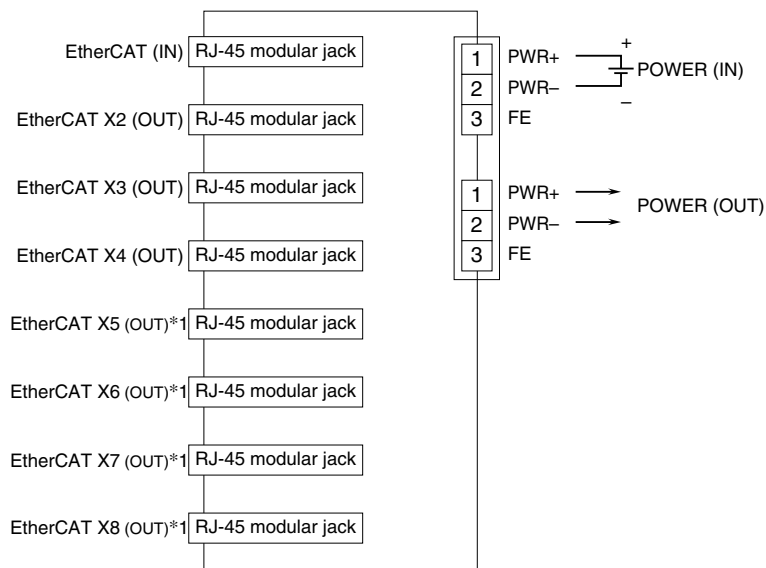(Torque: 1.4 N·m)
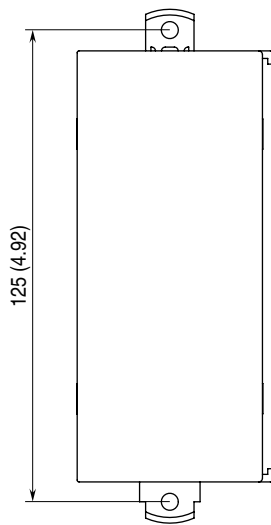
EXTERNAL DIMENSIONS unit: mm (inch)

50(1.97) [3(.12)]

[7 (.28)]

[4 (.18)]

115(4.52)

[4 (.18)]

[7 (.28)]

2–4.3 (.17) dia Mtg Hole
4 (.16) deep

73(2.87)

55(2.17) [4(.16)]

DIN RAIL
(35 mm wide)

CONNECTION DIAGRAM

Connect the unit as in the diagram below.

EtherCAT (IN)	RJ-45 modular jack
EtherCAT X2 (OUT)	RJ-45 modular jack
EtherCAT X3 (OUT)	RJ-45 modular jack
EtherCAT X4 (OUT)	RJ-45 modular jack
EtherCAT X5 (OUT)*1	RJ-45 modular jack
EtherCAT X6 (OUT)*1	RJ-45 modular jack
EtherCAT X7 (OUT)*1	RJ-45 modular jack
EtherCAT X8 (OUT)*1	RJ-45 modular jack

1	PWR+	+
2	PWR−	POWER (IN)
3	FE	−

1	PWR+	
2	PWR−	POWER (OUT)
3	FE	

*1. Available with JC-ECT-8 only.

MOUNTING REQUIREMENTS unit: mm (inch)

125 (4.92)

SYSTEM CONFIGURATION EXAMPLE

EtherCAT junction slave
(Model: JC-ECT)

R30NECT1

EtherCAT
master device

R8-NECT1
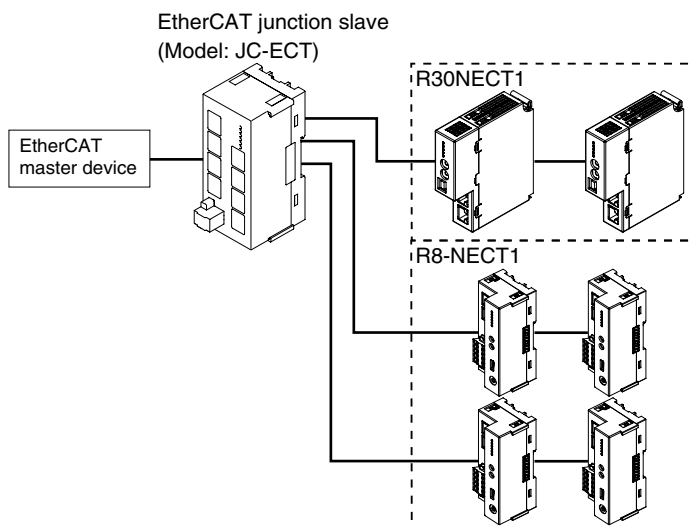
Note) Be sure to connect the EtherCAT master device to the EtherCAT (IN) port.