R1-EC-5500

User Guide

操 作 手 冊

Smarter. Greener. Together.

User Information

Be sure to store this guide at a safe place.

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Chapter 1 Preface

1.1 Inspection

Please inspect the following items carefully.
1. Package: Make sure the package is complete.
2. Bubble wrap: It can protect the product. Please make sure the sticker is firmly stuck on it.
3. R1-EC5500: Please make sure no damage is shown on its appearance and the accessories are all attached.
4. Installation Guide: Check if there is an installation guide.

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1.2 Model Explanation

R	1	-	EC	5	5	0	0
(1)	(2)		(3)	(4)	(5)		

(1) Product Type	R: Remote
(2) Product Category	1: Type 1 – Slim
(3) Product Name	EC: EtherCAT
(4) Module Type	5: Gateway Special Module
(5) Module Subtype	500: EtherCAT to E-Bus Interface

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Chapter 2 Specifications

2.1 Product Figure

Figure 2.1 Front View

2.2 Electrical Specifications and Dimensions of R1-EC5500

2.2.1 Electrical Specifications of R1-EC5500

Item	R1-EC5500
Communication Protocol / Max. Distance	EtherCAT / Max. 100 M (100 BASE-TX)
Data Transmission Speed	100 Mbaud
Power Requirements	24 VDC (-10% ~ 10%)
Input Current	50 mA + (E-Bus Total Current) / 4
E-bus Power Supply	2A
Vibration/Shock Resistance	Conforms to EN 60068-2-6 / EN 60068-2-27/29
ESD (IEC 61131-2, IEC 61000-4-2)	8 KV Air Discharge
EFT (IEC 61131-2, IEC 61000-4-4)	Power Line-2 KV
Communication I/O	1 KV
RS (IEC 61131-2, IEC 61000-4-3)	80 MHz ~ 1 GHz, 10 V/m
Operation Temperature	0 ^{o}C ~ 50 ^{o}C

2.2.2 Dimensions of R1-EC5500

Dimensions of R1-EC5500: 100 mm x 73.15 mm x 25 mm

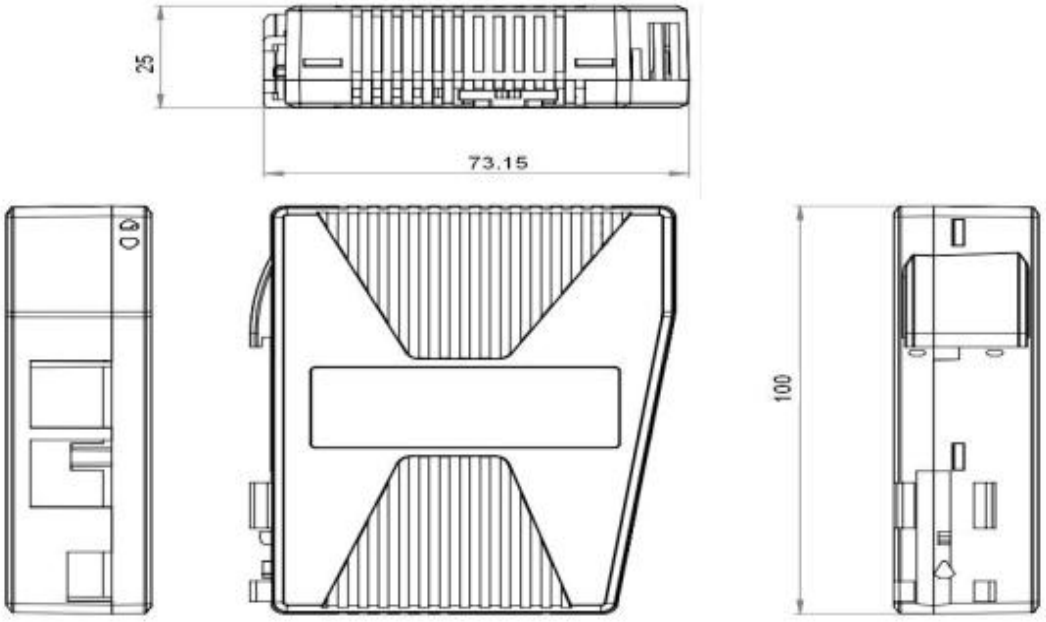

Figure 2.2 Dimensions of R1-EC5500

Chapter 3 Product Description

3.1 Description of Each Part

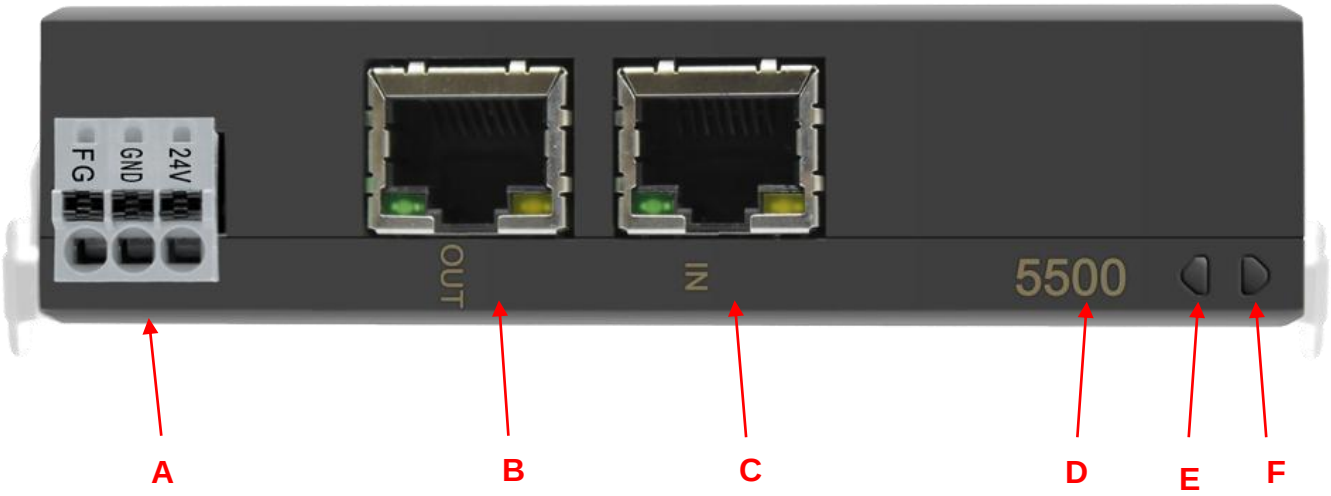

Figure 3.1 Identification of Each Part

No.	Description
A	24V Power Port
B	EtherCAT Communications Protocol Output Port
C	EtherCAT Communications Protocol Input Port
D	Product ID Number
E	Status Indicator
F	Power Indicator

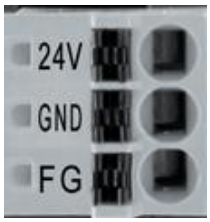

Figure 3.2 Pin Definition of 5500 A

Pin	Label	Description
3	24V	24V Input Voltage
2	GND	Power Ground
1	FG	Case Ground (Earth)

Figure 3.3 Pin Definition of 5500 B

Pin	Label	Description
1	RS485T_1 (+)	1st RS485 Transmitted Data (+)
2	RS485T_1 (-)	1st RS485 Transmitted Data (-)
3	RS485T_2 (+)	2nd RS485 Transmitted Data (+)
6	RS485T_2 (-)	2nd RS485 Transmitted Data (-)
7	EGND	RS485 Ground Signal
8	EGND	RS485 Ground Signal

Figure 3.4 Pin Definition of 5500 C

Pin	Label	Description
1	RS485T_1 (+)	1st RS485 Transmitted Data (+)
2	RS485T_1 (-)	1st RS485 Transmitted Data (-)
3	RS485T_2 (+)	2nd RS485 Transmitted Data (+)
6	RS485T_2 (-)	2nd RS485 Transmitted Data (-)
7	EGND	RS485 Ground Signal
8	EGND	RS485Ground Signal

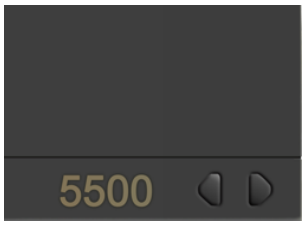

Figure 3.5 Definition of R1-EC5500 D、E、F

No.	Description
D	Product ID Number
E	Status Indicator
F	Power Indicator


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