

R1-EC-60X2

User Guide

操作手冊

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-EC60X2: 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.

1.2 Model Explanation

R 1 - EC 6 0 X 2
(1) (2) (3) (4) (5) (6) (7)

(1) Product Type	Remote
(2) Product Category	1: Type 1 - Slim
(3) Product Name	EC: EtherCAT
(4) Module Type	6: Gateway Digital Input Module
(5) Module Subtype 1	0: 3.50 mm Terminal Connector
(6) Module Subtype 2	0: General / 24 VDC / 100 μ s 1: General / 24 VDC / 1 ms 2: General / 24 VDC / 2 ms 3: General / 24 VDC / 3 ms
(7) Port Number	2: 16 sets

1.3 Using R1-EC60X2

This product has to be used with R1-EC5500 of Delta Electronics.

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Chapter 2 Specifications

2.1 Product Figure



Figure 2.1 Front View

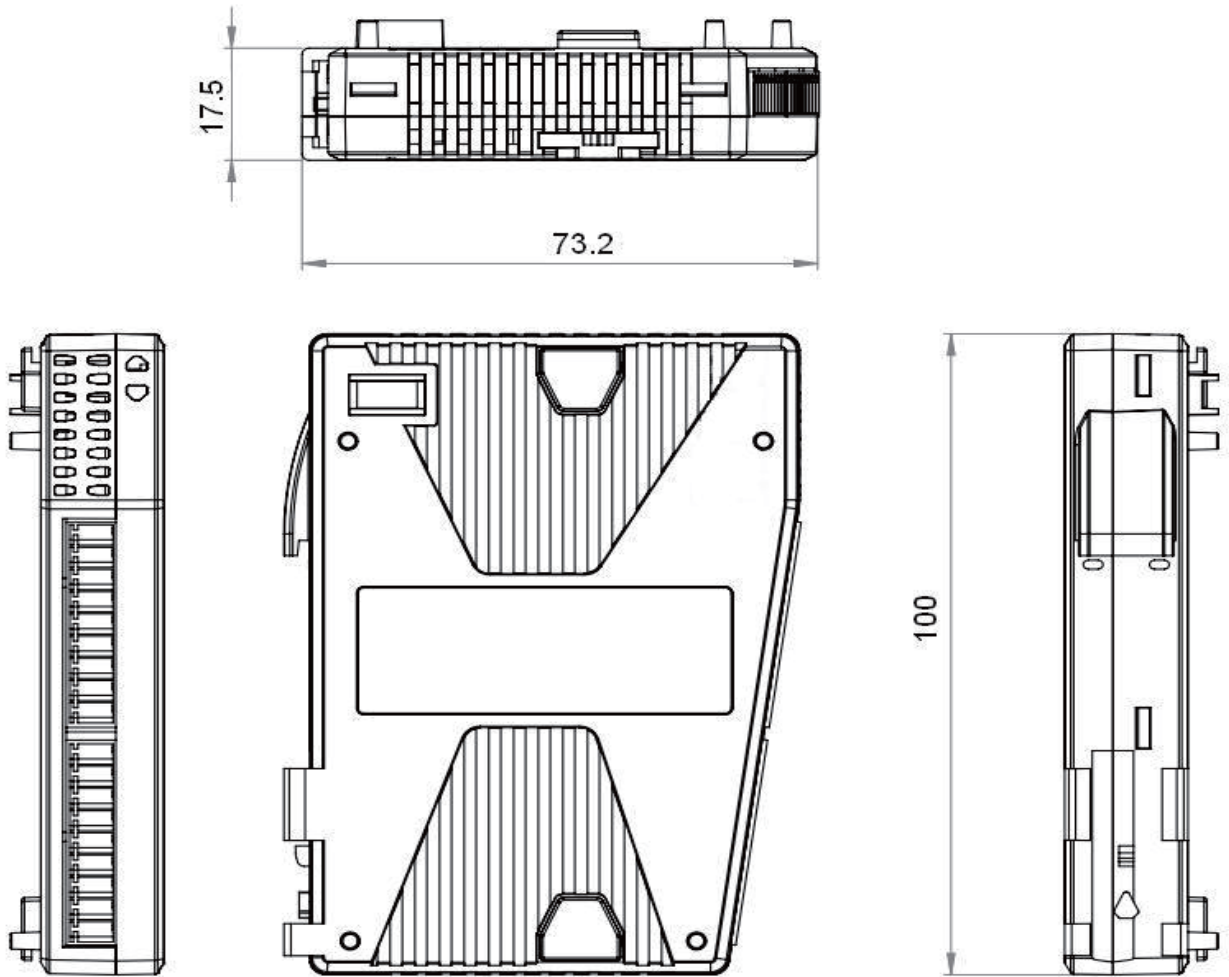
2.2 Specifications and Dimensions of R1-EC60X2

2.2.1 Electrical Specifications of R1-EC60X2

Item	R1-EC6002	R1-EC6012	R1-EC6022	R1-EC6032
Circuit Type	Single Common Port Input			
Signal Type	SINK / SOURCE			
Power Supply	24 VDC			
Current for Digital Input	3 mA			
Current for Digital Output	-			
E-bus Current Loss	150 mA			
Response Time	100 μ s	1 ms	2 ms	3 ms
Active Level (OFF > ON)	> 16.5 VDC			
Active Level (ON > OFF)	< 8 VDC			
Noise Immunity	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: 1KV RS (IEC 61131-2, IEC 61000-4-3): 80 MHz ~ 1 GHz, 10 V/m			
Operating / Storage Temperature	Operating: 0°C ~ 50°C; Storage: -20°C ~ 70°C			

2.2.2 Dimensions of R1-EC60X2

Dimensions of R1-EC60X2: 100 mm x 73.2 mm x 17.5 mm



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Chapter 3 Product Description

3.1 Description of Each Part

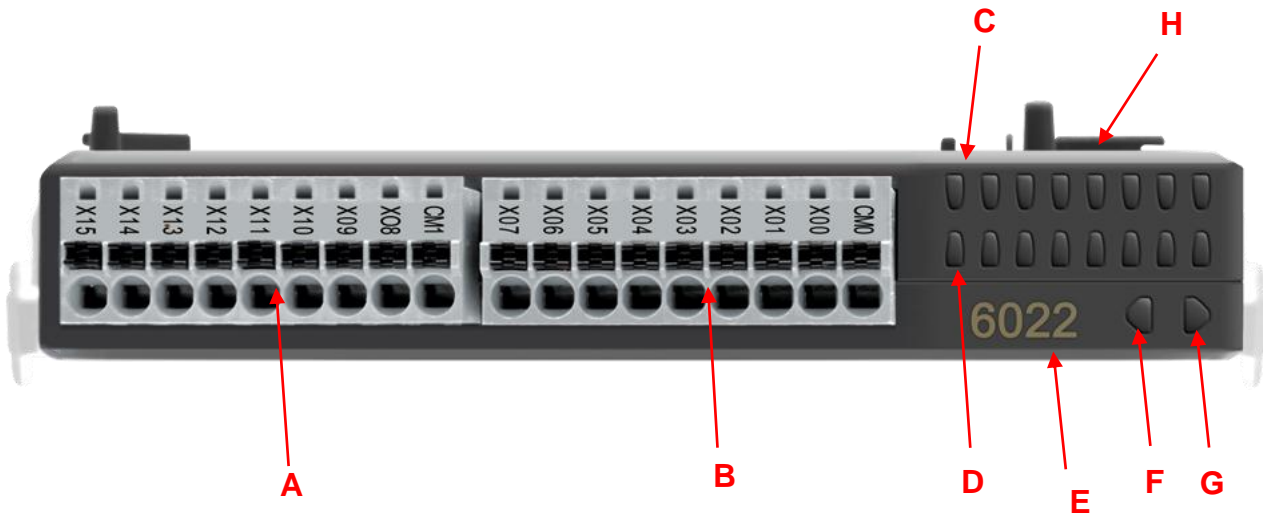


Figure 3.1 Identification of Each Part

No.	Description
A	Port 1
B	Port 0
C	(Part B) Port0 IO Signal X07~X00 Display (from Left to Right)
D	(Part A) Port1 IO Signal X15~X08 Display (from Left to Right)
E	Product ID Number
F	Status Indicator
G	Power Indicator
H	E-BUS Input Port

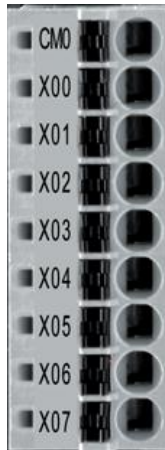


Figure 3.2 Pin Definition of Part B

Label	Description
CM0	Port 0 24V Input
X00	P0 GPIO 1 Input
X01	P0 GPIO 2 Input
X02	P0 GPIO 3 Input
X03	P0 GPIO 4 Input
X04	P0 GPIO 5 Input
X05	P0 GPIO 6 Input
X06	P0 GPIO 7 Input
X07	P0 GPIO 8 Input



Figure 3.3 Pin Definition of Part A

Label	Description
CM1	Port 1 24V Input
X08	P1 GPIO 1 Input
X09	P1 GPIO 2 Input
X10	P1 GPIO 3 Input
X11	P1 GPIO 4 Input
X12	P1 GPIO 5 Input
X13	P1 GPIO 6 Input
X14	P1 GPIO 7 Input
X15	P1 GPIO 8 Input



Figure 3.4 Definition of C, D, E, F, and G

No.	Description
C	(Part B) Port0 Signal X07~X00 Display
D	(Part A) Port1 Signal X15~X08 Display
E	Product ID Number
F	Status Signal
G	Power Signal

Chapter 4 Wiring

4.1 Wiring of R1-EC60X2 Input Point

SINK

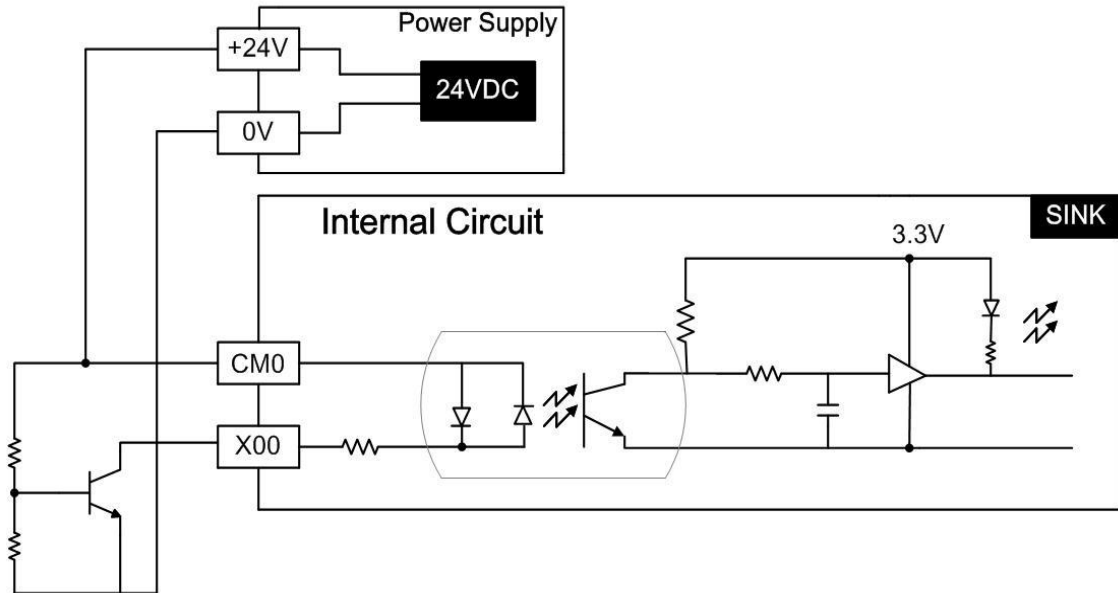


Figure 4.1 Wiring Example of SINK

SOURCE

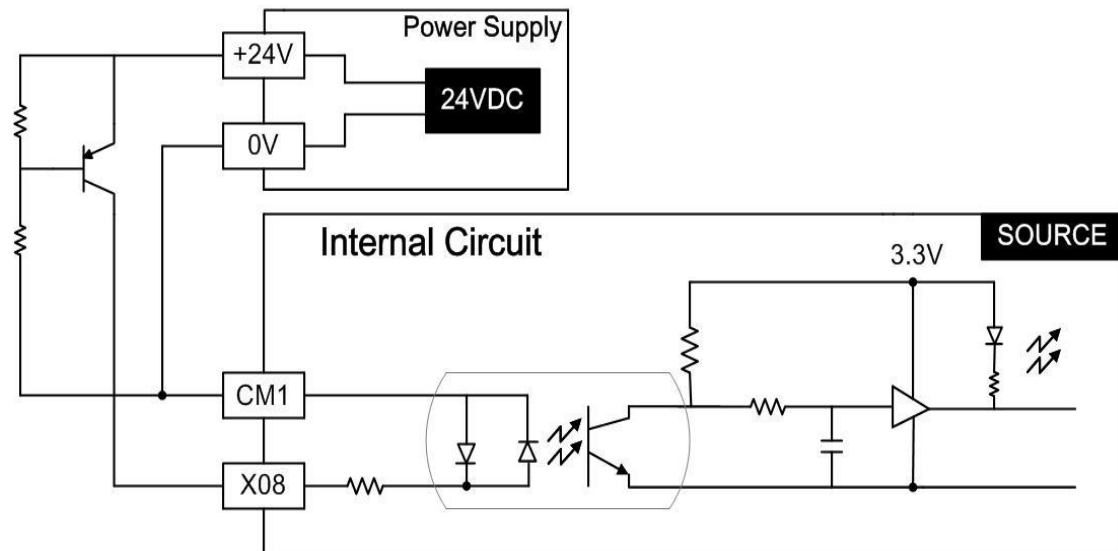


Figure 4.2 Wiring Example of SOURCE

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