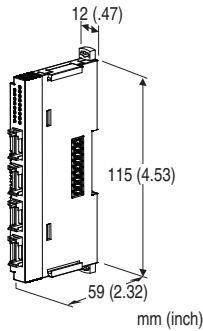# MODEL: R8-DC4C

Remote I/O R8 Series

PHOTO MOSFET RELAY OUTPUT MODULE

Functions & Features

• 4-channel photo MOSFET relay output, compact size remote I/O module

12 (.47)

115 (4.53)

59 (2.32)

mm (inch)

MODEL: R8–DC4C

ORDERING INFORMATION

• Code number: R8-DC4C

RELATED PRODUCTS

• PC configurator software (model: R8CFG)
Downloadable at M-System's web site.
A dedicated cable is required to connect the module to the PC. Please refer to the internet software download site or the users manual for the PC configurator for applicable cable types.

GENERAL SPECIFICATIONS

Connection

•**Output**: 4-pin e-CON connector
PWB connector XN2D-1474-S002 (Omron)
Recommended cable connector XN2A-1470 (Omron)
Applicable wire size 0.08 mm^2 (AWG28) - 0.5 mm^2 (AWG20)
Outer sheath diameter: max. 1.5 dia
(The cable connector is not included in the package. Refer to the specifications of the product.)

•**Excitatin supply, internal bus**: Connected to internal bus connector

•**Internal power**: Supplied from internal bus connector

Isolation: Output or exc. supply to internal bus or internal power

Module address: With rotary switch

Terminating resistor: Built-in (DIP Switch, default: disable)

Status indicator: Bi-color (red/green) LED; Refer to the instruction manual.

Discrete output status indicators: Green LED; Refer to the instruction manual.

OUTPUT SPECIFICATIONS

Number of outputs: 4
Rated load voltage: 48 V peak AC/DC
Rated output current: 0.2 A per point
Output ON resistance: ≤ 1 Ω
Leakage current at open circuit: ≤ 0.1 mA
ON delay: ≤ 5 msec.
OFF delay: ≤ 3 msec.
(When driving an inductive load, external contact protection and noise quenching recommended.)

INSTALLATION

Max. current consumption: 120 mA
Operating temperature: -10 to +55°C (14 to 131°F)
Operating humidity: 30 to 90 %RH (non-condensing)
Atmosphere: No corrosive gas or heavy dust
Mounting: DIN rail
Weight: 60 g (2.12 oz)

PERFORMANCE

Data allocation: 1
Module addresses in use: 1
Insulation resistance: ≥ 100 MΩ with 500 V DC
Dielectric strength: 1500V AC @1 minute
(output or exc. supply to internal bus or internal power to ground)
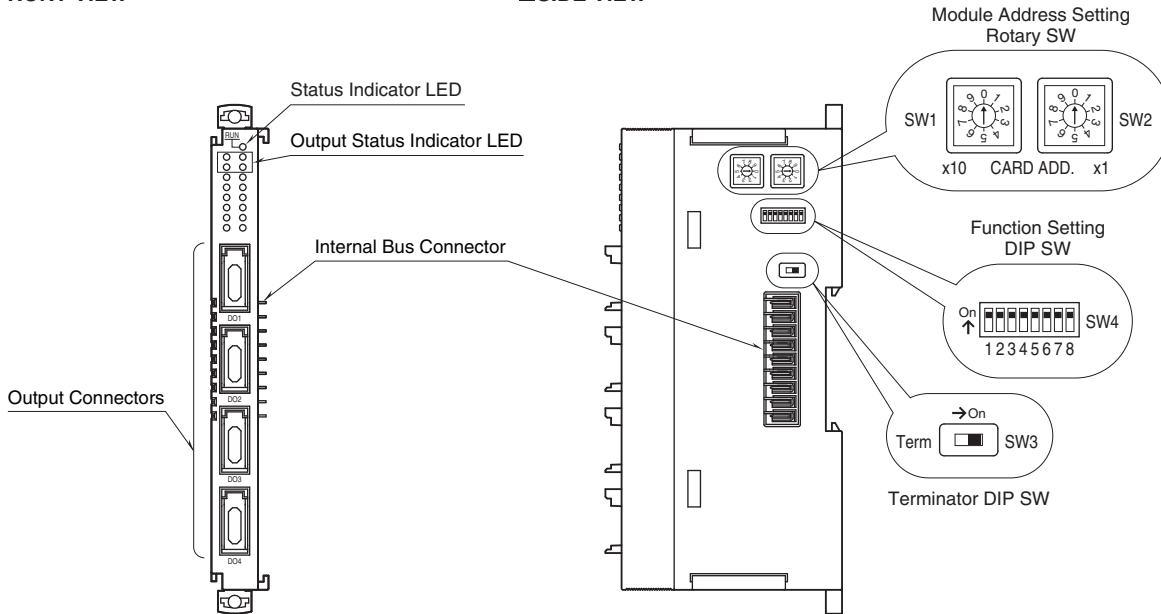
STANDARDS & APPROVALS

CE conformity:
EMC Directive (2004/108/EC)
  EMI EN 61000-6-4: 2007
  EMS EN 61000-6-2: 2005

EXTERNAL VIEW

■**FRONT VIEW**   ■**SIDE VIEW**
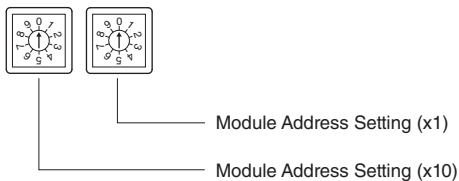

OPERATING MODE SETTING

(*) Factory setting

Caution ! - SW4-1 through 4-6 are unused. Be sure to turn off unused ones.

■ MODULE ADDRESS

The left switch determines the tenth place digit, while the right switch does the ones place digit of the address.
Address is selected between 0 to 31.
(Factory setting: 0)

Module Address Setting (x1)

Module Address Setting (x10)

■ Output at The Loss of Communication

OUTPUT AT THE LOSS OF COMMUNICATION	SW4-7
Output Hold (*) (last data correctly rerceived is hold)	OFF
Stop output (Output fixed at OFF)	ON

■ Configuration Mode

CONFIGURATION MODE	SW4 8
DIP switch setting (*)	OFF
PC Configurator and communication	ON

■ Terminator DIP SW

Terminator switch	SW3
Without (*)	OFF
With	ON

DIMENSIONS unit: mm (inch)

12 (.47)   [3 (.12)]   59 (2.32)   [4 (.16)]

7 (.28)

6 (.24)

55 (2.17)

115 (4.53)

DIN RAIL
(35 mm wide)

6 (.24)

7 (.28)
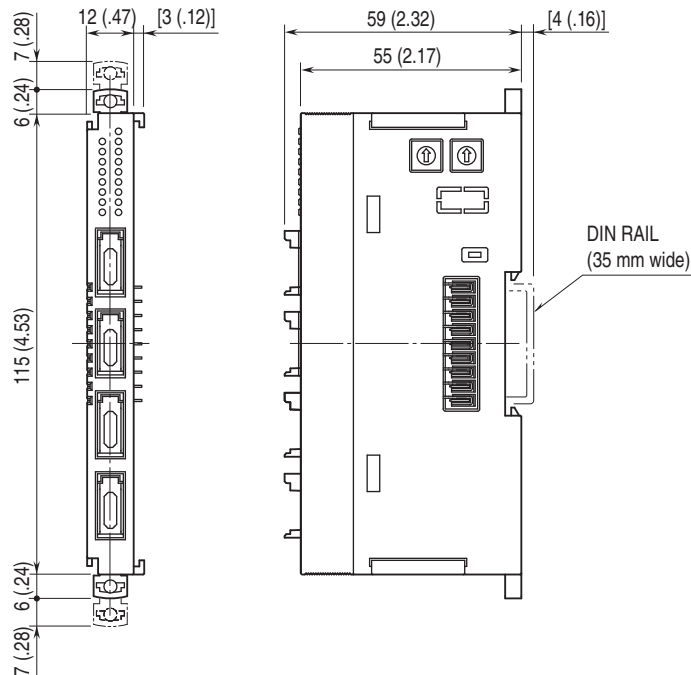
SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM

STATUS   OUTPUT
LED   STATUS LED

OUTPUT
CONNECTOR 1

INTERNAL
BUS

Communication
Circuit

Control
Circuit

Output
Circuit

1

2   NC

Do1

3   NC

4

INTERNAL
POWER

EXC.*1
SUPPLY

+24V

0V

ROTARY SW
DIP SW

BUS CONNECTOR

OUTPUT
CONNECTOR 4

1

2   NC

Do4

3   NC

4
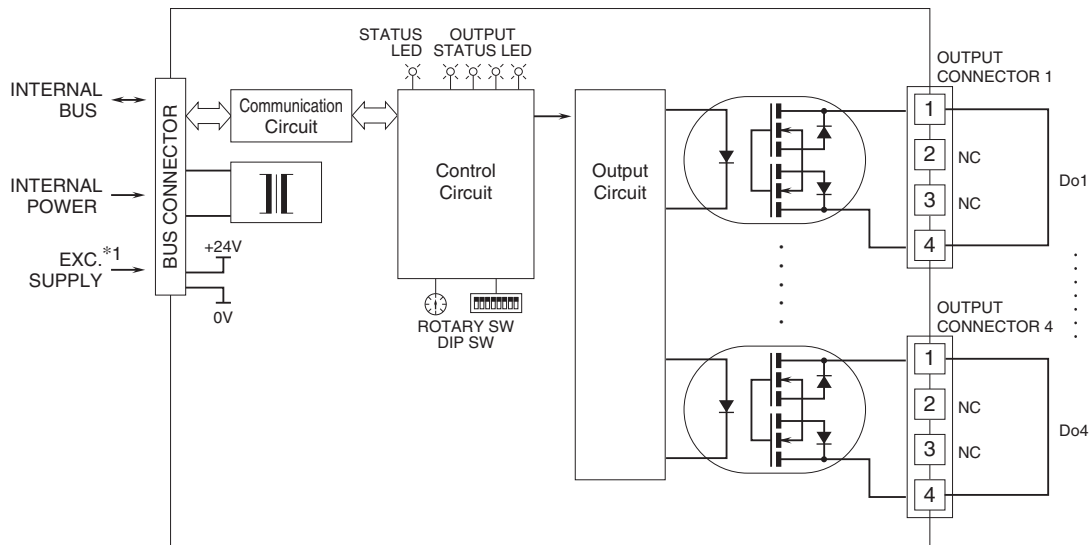
*1. Not used.

■ **Refer to the figure below for Photo MOSFET Relay discrete protection and noise removal.**
•**AC Powered**   •**DC Powered**

Coil, etc.
Inductive loads

Load

Varistor/CR Circuit

Coil, etc.
Inductive loads

Load

Varistor/CR Circuit

⚠ Specifications are subject to change without notice.

幸託有限公司   TEL : (02)2598-1199   E-mail : info@xintop.com
XIN TOP CORPORATION   FAX : (02)2596-2331   Website : www.xintop.com