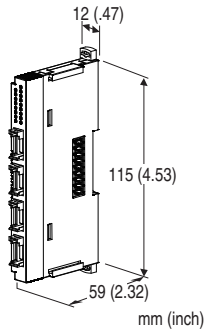
Remote I/O R8 Series

PHOTO MOSFET RELAY OUTPUT MODULE

Functions & Features

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



CE

MODEL: R8-DC4C[1]

ORDERING INFORMATION

• Code number: R8-DC4C[1]
Specify a code from below for [1].
(e.g. R8-DC4C/Q)
• Specify the specification for option code /Q
(e.g. /C01)

[1] OPTIONS

blank: none
/Q: With options (specify the specification)

SPECIFICATIONS OF OPTION: Q

COATING (For the detail, refer to M-System's web site.)
/C01: Silicone coating
/C02: Polyurethane coating

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
•**Input**: 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.)
•**Excitation 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
Output at the loss of communication: Selectable with the side DIP SW
Terminating resistor: Built-in (DIP Switch, default: disable)
Configuration mode: With DIP switches on the side panel
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)

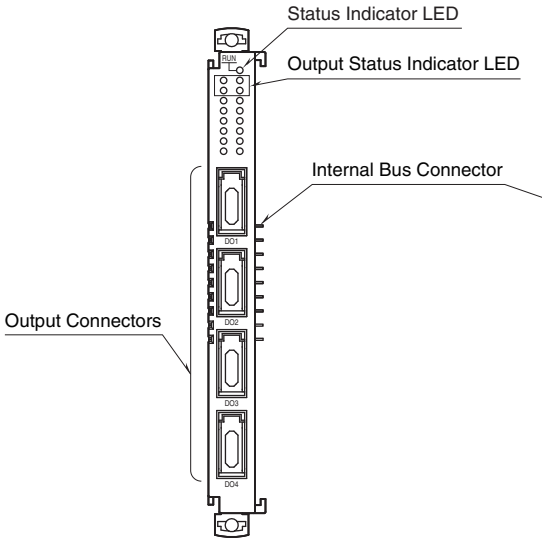
STANDARDS & APPROVALS

EU conformity:
EMC Directive

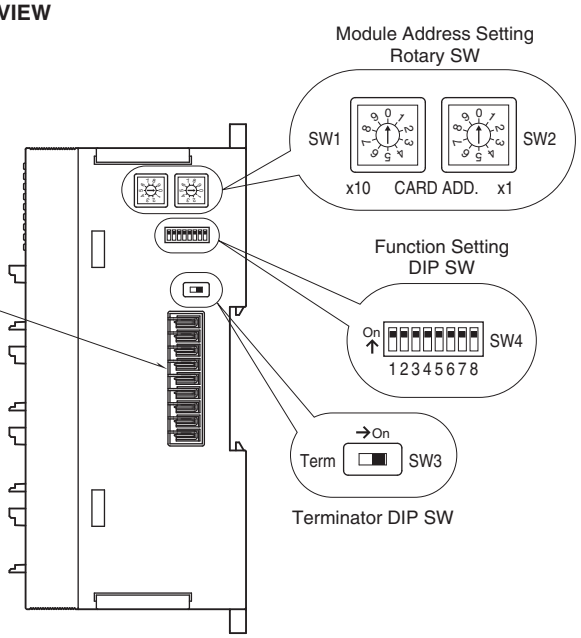
EMI EN 61000-6-4
EMS EN 61000-6-2
RoHS Directive
EN 50581

EXTERNAL VIEW

■FRONT VIEW



■SIDE VIEW



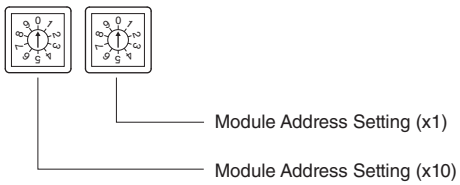
OPERATING MODE SETTING

(*) 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)



■ 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

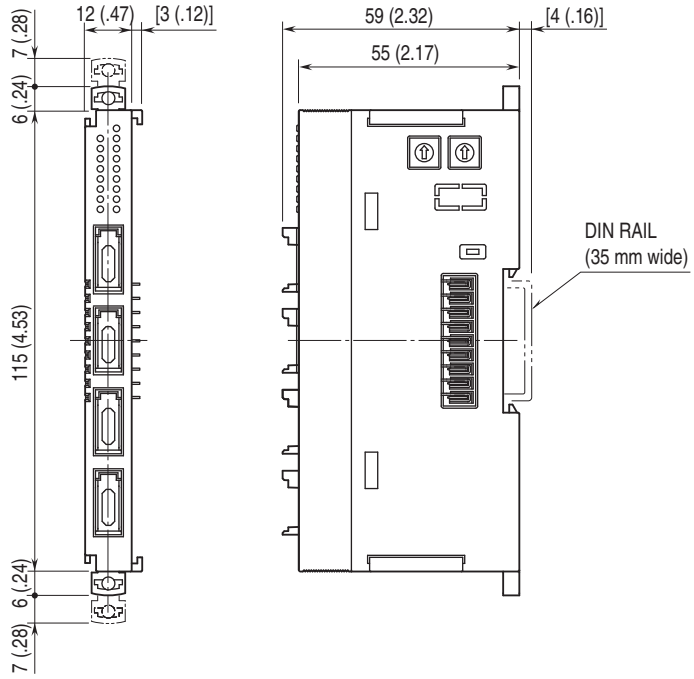
■ Configuration Mode

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

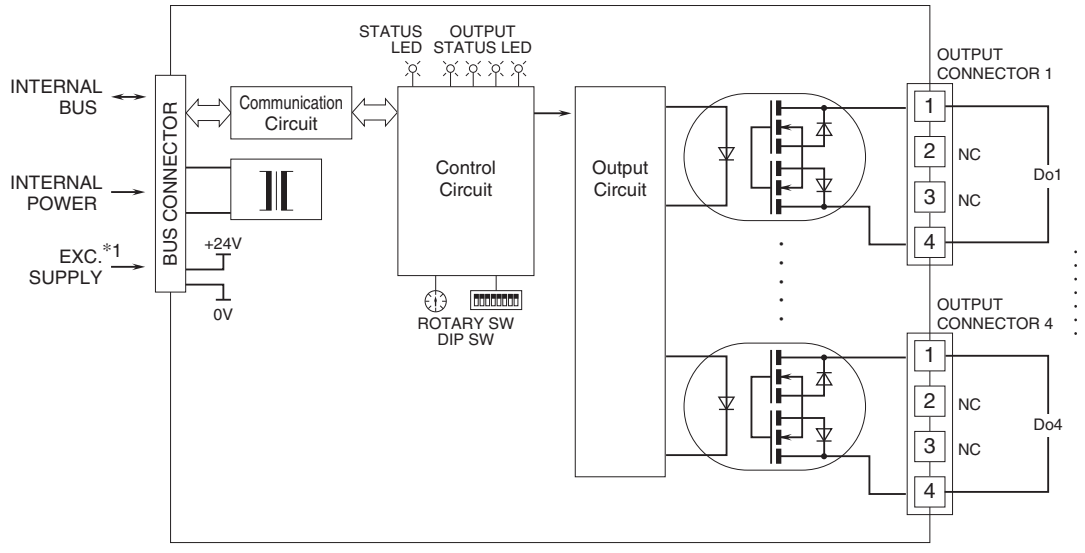
■ Terminator DIP SW

TERMINATOR SW	SW3
Without (*)	OFF
With	ON

DIMENSIONS unit: mm (inch)



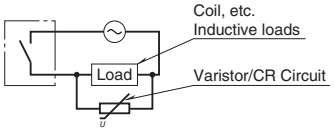
SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM



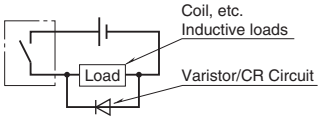
*1. Not used.

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

•AC Powered



•DC Powered



⚠ Specifications are subject to change without notice.