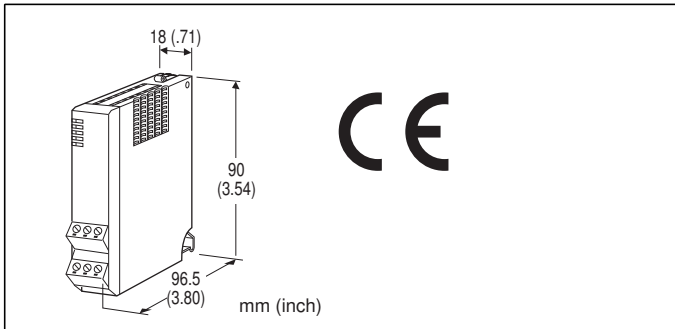


## Remote I/O R5 Series

### DISCRETE OUTPUT MODULE

(relay contact output, 4 points)



### MODEL: R5-DC4[1][2]

#### ORDERING INFORMATION

- Code number: R5-DC4[1][2]
- Specify a code from below for each of [1] and [2].  
(e.g. R5-DC4W/Q)
- Specify the specification for option code /Q  
(e.g. /C01)

#### NO. OF CHANNELS

4: 4-point outputs

#### [1] COMMUNICATION MODE

S: Single  
W: Dual

#### [2] 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
- /C03: Rubber coating

#### GENERAL SPECIFICATIONS

##### Connection

**Internal bus:** Via the Installation Base (model: R5-BS)  
**Output:** Euro type connector terminal  
(Applicable wire size: 0.2 - 2.5 mm<sup>2</sup> (AWG24 - 12),  
stripped length 7 mm)  
**Internal power:** Via the base (model: R5-BS)  
**Isolation:** Do1 or Do2 to Do3 or Do4 to internal bus or

internal power

**RUN indicator:** Bi-color (red/green) LED;  
Red when the bus A operates normally;  
Green when the bus B operates normally;  
Amber when both buses operate normally.  
**Output status indicator:** Red LED; turns on with the outputs ON.

#### OUTPUT SPECIFICATIONS

**Output:** Relay contact, 4 points  
**Common:** Every 2 points  
**Rated load:** 250 V AC @ 0.5 A (cos  $\phi$  = 1)  
30 V DC @ 0.5 A (resistive load)  
**Maximum switching voltage:** 250 V AC or 30 V DC  
**Maximum switching power:** 250 VA or 150 W  
**Minimum load:** 1 V DC @ 1 mA  
**Mechanical life:**  $2 \times 10^7$  cycles (rate 300/min.)  
When driving an inductive load, external contact protection and noise quenching recommended.

#### INSTALLATION

**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:** Installation Base (model: R5-BS)  
**Weight:** 100 g (0.22 lb)

#### PERFORMANCE

**Data allocation:** 1  
**Response time:**  $\leq 0.1$  sec.  
**Insulation resistance:**  $\geq 100$  M $\Omega$  with 500 V DC  
**Dielectric strength:** 1500 V AC @ 1 minute (Do 1 or Do 2 to Do 3 or Do 4 to internal bus or internal power)  
2000 V AC @ 1 minute (power input to FG; isolated on the power supply module)

#### STANDARDS & APPROVALS

**EU conformity:**  
EMC Directive  
EMI EN 61000-6-4  
EMS EN 61000-6-2  
Low Voltage Directive  
EN 61010-1, EN 61010-2-201  
Measurement Category II (output)  
Pollution Degree 2  
Output to internal bus or internal power - Basic insulation (300 V)  
RoHS Directive

## FUNCTIONS

### Output hold function:

In normal conditions, the module outputs the signal from the preferred bus A.

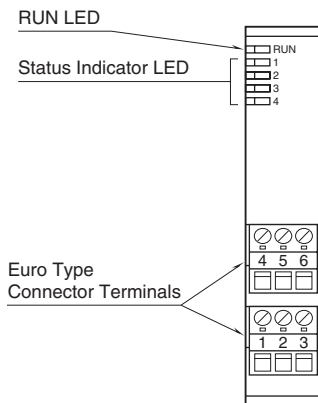
When an error is detected, the output is switched to the data from the bus B.

If both are in error, the module holds the signal and stands by until one of the communications recovers.

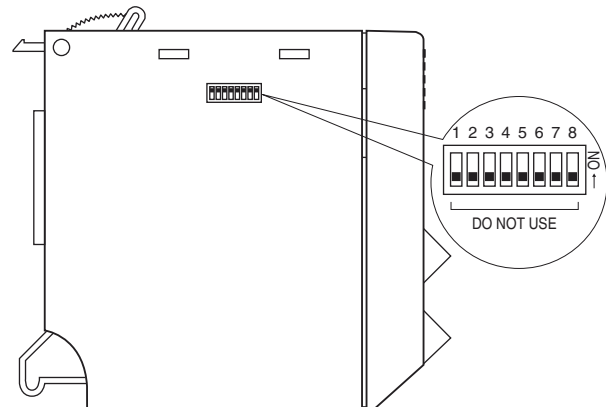
At the startup, it outputs OFF until the communication is established and normal data is received.

## EXTERNAL VIEW

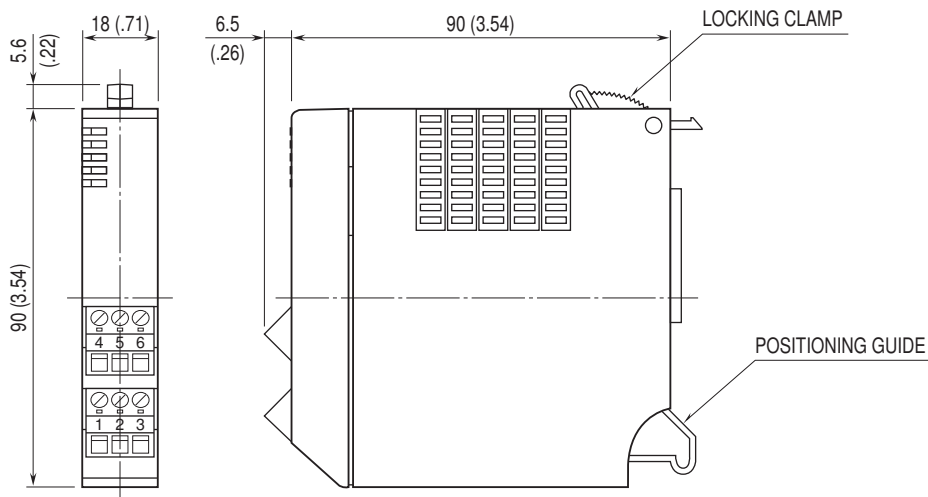
### FRONT VIEW



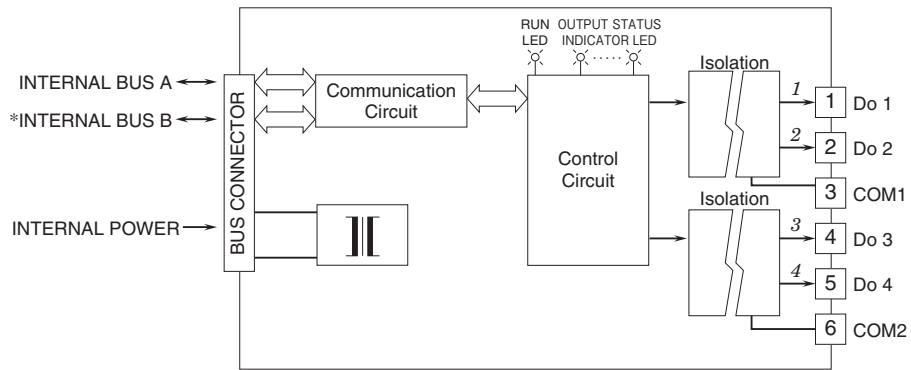
### SIDE VIEW



## EXTERNAL DIMENSIONS & TERMINAL ASSIGNMENTS unit: mm [inch]



**SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM**



\*For dual redundant communication.  
 Note: Italic typed numbers correspond to the LEDs on the front panel.



Specifications are subject to change without notice.