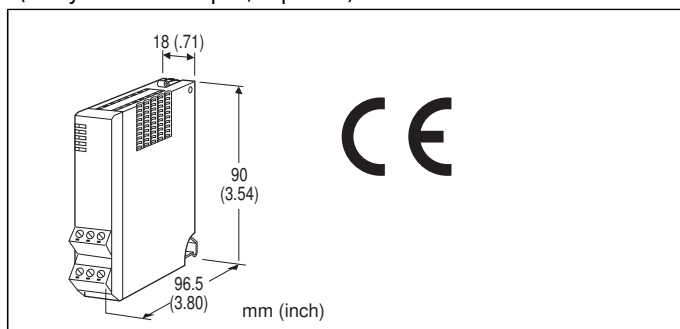


Remote I/O R5 Series

DISCRETE OUTPUT MODULE

(relay contact output, 4 points)



MODEL: R5-DC4[1]

ORDERING INFORMATION

- Code number: R5-DC4[1]

Specify a code from below for [1]

(e.g: R5-DC4W)

[1] COMMUNICATION MODE

S: Single

W: Dual

GENERAL SPECIFICATIONS

Connection

Internal bus: Via the Installation Base
(model: R5-BSx)

Output: Euro type connector terminal
Wire size AWG24-12 (0.2 – 2.5 mm²)

Power supply: Via the base (model: R5-BSx)

Isolation: Do1 or Do2 to Do3 or Do4 to 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 relays energized.

OUTPUT SPECIFICATIONS

Output: Relay contact, 4 points

Common: Every 2 points

Rated load: 250 V AC @ 0.5 A (cos ϕ = 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 × 10⁷ 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-BSx)

Weight: 100 g (3.53 oz)

PERFORMANCE

Data allocation: 1

Response time: ≤ 0.1 sec.

Insulation resistance: ≥ 100 MΩ with 500 V DC

Dielectric strength: 1500 V AC @ 1 minute (Do 1 or Do 2 to Do 3 or Do 4 to internal power)

2000 V AC @ 1 minute (power input to FG; isolated on the power supply module)

STANDARDS & APPROVALS

CE conformity:

EMC Directive (2004/108/EC)

EMI EN 61000-6-4: 2007

EMS EN 61000-6-2: 2005

Low Voltage Directive (2006/95/EC)

EN 61010-1: 2001

Measurement Category II

Pollution Degree 2

Contact output to internal power – Basic insulation
(300 V)

FUNCTIONS

Output hold function:

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

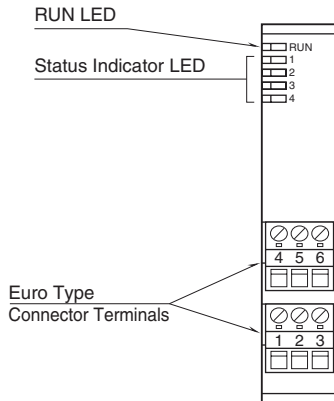
When an error is detected, the output is switched to the data from the bus B.

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

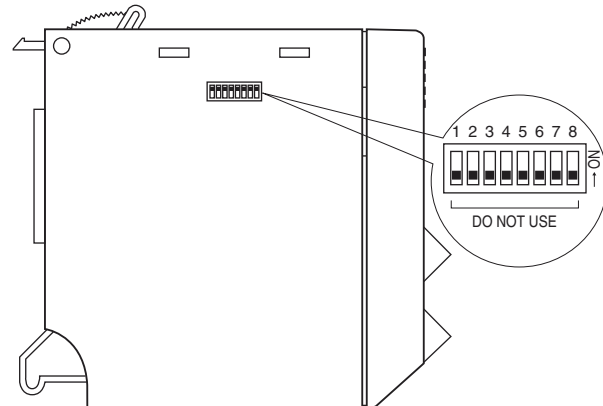
At the startup, it outputs OFF until the communication is established and normal data is received.

EXTERNAL VIEW

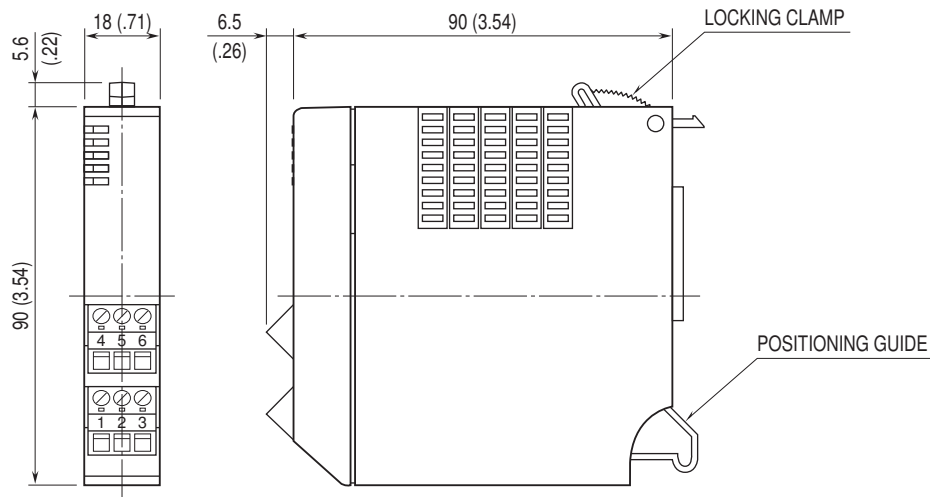
■ FRONT VIEW



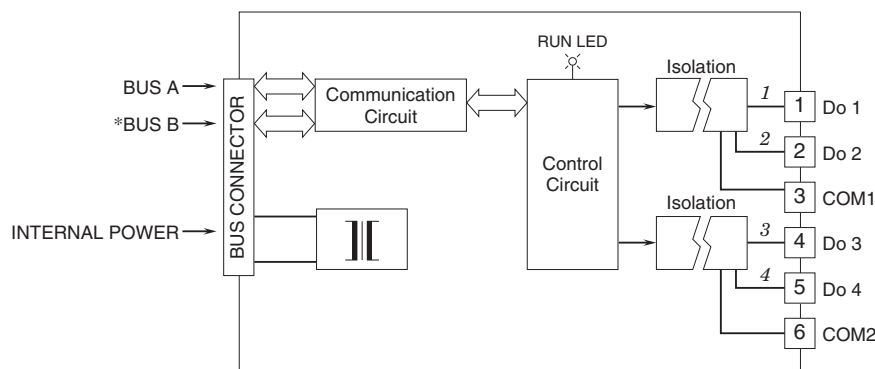
■ SIDE VIEW



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.