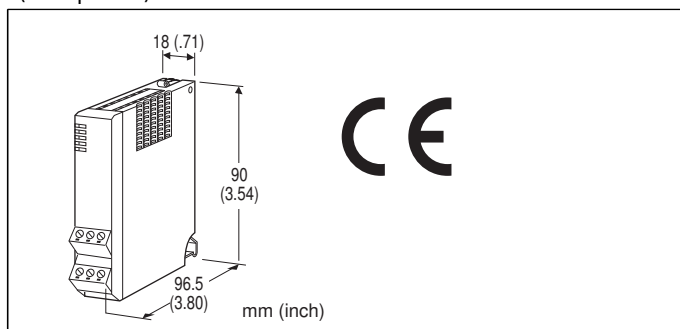


## Remote I/O R5 Series

## DISCRETE INPUT MODULE

(Di 4 points)



## MODEL: R5-DA4[1][2]

## ORDERING INFORMATION

- Code number: R5-DA4[1][2]

Specify a code from below for each [1], [2].

(e.g: R5-DA4W/A)

## [1] COMMUNICATION MODE

S: Single

W: Dual

## [2] OPTIONS

## Excitation

Blank: Internal

/A: External (24 V DC, positive common)

/B: External (24 V DC, negative common)

## GENERAL SPECIFICATIONS

## Connection

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

**Input:** Euro type connector terminal  
Wire size AWG24-12 (0.2 – 2.5 mm<sup>2</sup>)

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

**Isolation:** Di1 or Di2 to Di3 or Di4 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.

**Input status indicator:** Red LED; turns on with the inputs supplied.

## INPUT SPECIFICATIONS

## ■ Internal Excitation

**Input:** Dry contact, 4 points

**Common:** Negative, every 2 points

**Contact detecting:** Max. 24 V DC

**ON current/resistance:**  $\geq 2.5$  mA,  $\leq 1$  k $\Omega$

**OFF current/resistance:**  $\leq 1$  mA,  $\geq 10$  k $\Omega$

## ■ External Excitation (Positive common)

**Input:** 24 V DC, 4 points (input resistance 6 k $\Omega$ )

**Common:** every 2 points

**Contact detecting:** external 24 V DC  $\pm 10$  %

**ON current/resistance:**  $\geq 2.5$  mA,  $\leq 2$  k $\Omega$

**OFF current/resistance:**  $\leq 1$  mA,  $\geq 18$  k $\Omega$

## ■ External Excitation (Negative common)

**Input:** 24 V DC, 4 points (input resistance 6 k $\Omega$ )

**Common:** every 2 points

**Contact detecting:** external 24 V DC  $\pm 10$  %

**ON current/resistance:**  $\geq 2.5$  mA,  $\leq 2$  k $\Omega$

**OFF current/resistance:**  $\leq 1$  mA,  $\geq 18$  k $\Omega$

## 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:**  $\leq 0.1$  sec.

**Insulation resistance:**  $\geq 100$  M $\Omega$  with 500 V DC

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

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

## STANDARDS &amp; APPROVALS

## CE conformity:

EMC Directive (2004/108/EC)

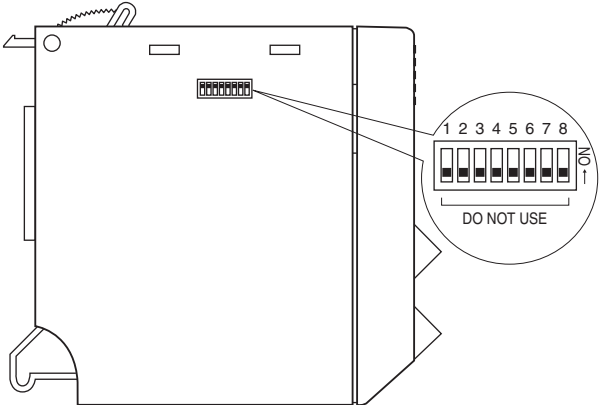
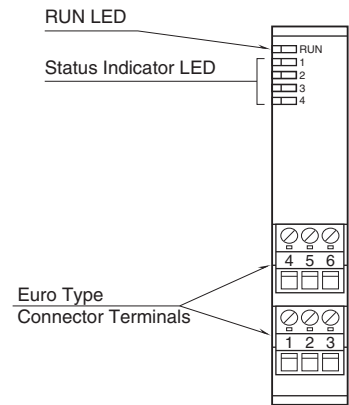
EMI EN 61000-6-4: 2007

EMS EN 61000-6-2: 2005

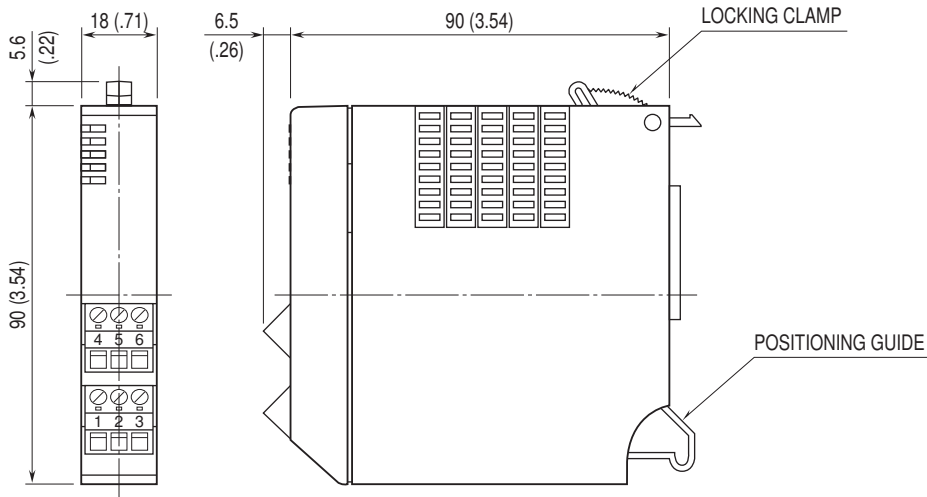
EXTERNAL VIEW

FRONT VIEW

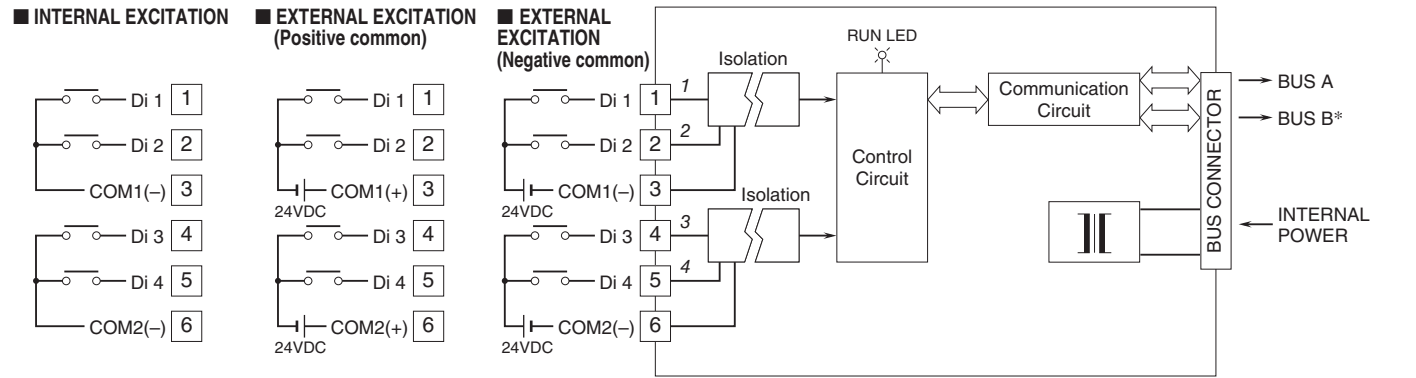
SIDE VIEW



EXTERNAL DIMENSIONS & TERMINAL ASSIGNMENTS unit: mm (inch)



SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM



Specifications are subject to change without notice.