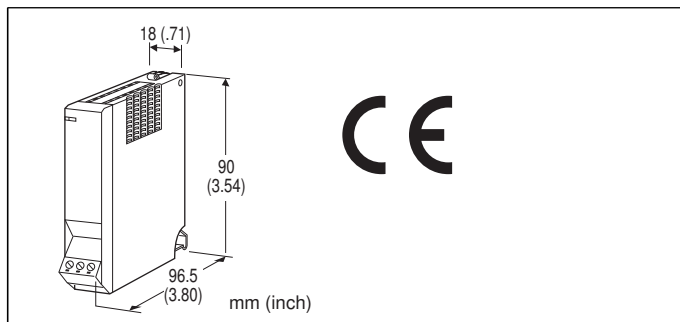


## Remote I/O R5 Series

## 4 - 20 mA OUTPUT MODULE



## MODEL: R5-YS[1][2][3]

## ORDERING INFORMATION

- Code number: R5-YS[1][2][3]

Specify a code from below for each [1] through [3]  
(e.g. R5-YS1W/H)

## [1] NO. OF CHANNELS

- 1: 1  
2: 2

## [2] COMMUNICATION MODE

- S: Single  
W: Dual

## [3] OPTIONS

## Load Resistance

blank:  $\leq 300 \Omega$

/H:  $\leq 600 \Omega$  (available only for 1-channel output type)

## 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 mm<sup>2</sup>)

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

**Isolation:** Output 1 to output 2 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 SPECIFICATIONS

**Output range:** 4 - 20 mA DC

**Load resistance:** 300  $\Omega$  max. (600  $\Omega$  max. with Option /H)

## 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

**Conversion accuracy:**  $\pm 0.1 \%$

**Data range:** 0 - 10000 of the output range

**Data allocation:** 1 (2 for 2-channel type)

**Temp. coefficient:**  $\pm 0.015 \%/^{\circ}\text{C}$

$\pm 0.02 \%/^{\circ}\text{C}$  with Option /H

**Response time:**  $\leq 0.2$  sec. (0 - 90 %)

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

**Dielectric strength:** 1500 V AC @ 1 minute

(output 1 to output 2 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

## FUNCTIONS

## Output hold function:

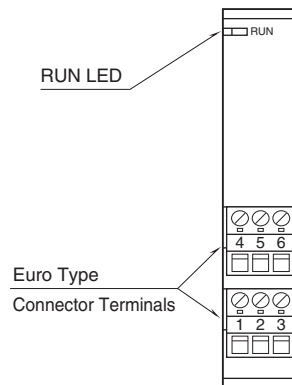
In normal conditions, the module outputs the signal from the preferred bus A.

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

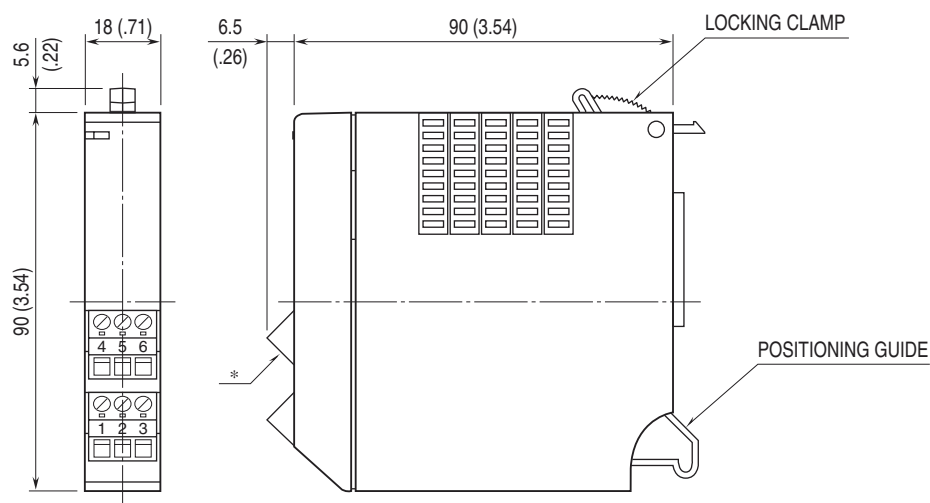
If both are in error, the module holds the signal and stands by until one of the communications recovers.

At the startup, it outputs -15 % of the selected range until the communication is established and normal data is received.

## EXTERNAL VIEW

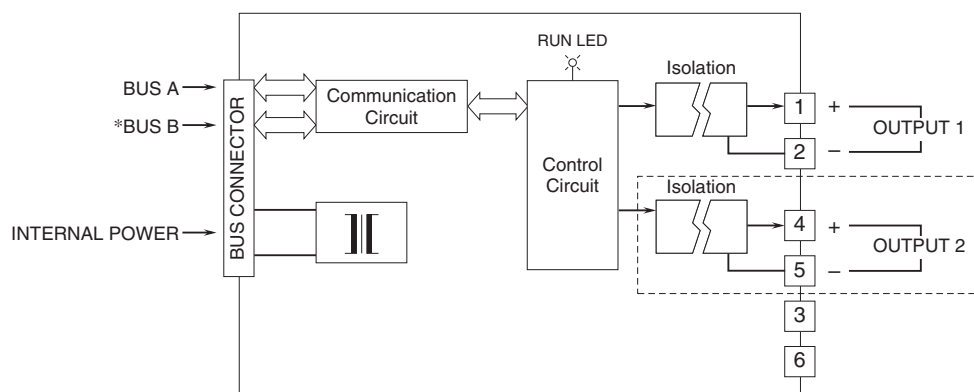


## EXTERNAL DIMENSIONS & TERMINAL ASSIGNMENTS unit: mm (inch)



\*Terminal block (Terminals 4, 5 and 6) provided only with 2-ch. option.

## SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM



\*For dual redundant communication.

NOTE: The section enclosed by broken line is with 2-ch. option.



Specifications are subject to change without notice.