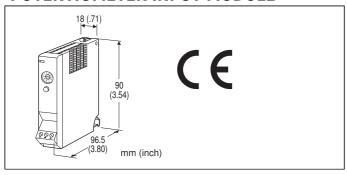
### Remote I/O R5 Series

### POTENTIOMETER INPUT MODULE



MODEL: R5-MS[1][2][3]

### **ORDERING INFORMATION**

• Code number: R5-MS[1][2][3]

Specify a code from below for each [1] through [3]. (e.g. R5-MS2W/Q)

 Specify the specification for option code /Q (e.g. /C01)

### [1] NO. OF CHANNELS

 $\textbf{1}{:}\ 1\ channel$ 

2: 2 channels

# [2] COMMUNICATION MODE

**S**: Single **W**: Dual

### [3] 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)

Input: Euro type connector terminal

Wire size AWG24-12 (0.2 - 2.5 mm<sup>2</sup>), stripped length 7 mm

Internal power: Via the base (model: R5-BS)

Isolation: Input 1 to input 2 to internal bus or internal power

Zero/Span adj. mode selector: Rotary switch; run mode and

adj. mode selectable

**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 SPECIFICATIONS

Total resistance:  $100 \Omega - 10 k\Omega$ 

Minimum span: 50 % of the total resistance range

Excitation: 0.5 V DC

#### 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 (3.53 oz)

### **PERFORMANCE**

Conversion accuracy: ±0.1 %

Data range: 0 - 10000 of the input range
Data allocation: 1 (2 for 2-channel type)
Temp. coefficient: ±0.015 %/°C (±0.008 %/°F)
Resolution: 1/10000 of the total resistance range
(Reduced by the actual range determined zero/ span positions. Minimum 50 % of the total resistance range must

be maintained.)

Response time:  $\leq 0.1$  sec. (0 - 90 %)

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

Dielectric strength: 1500 V AC @ 1 minute (input 1 to input

2 to internal bus or 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/A1: 2011 EMS EN 61000-6-2: 2005

#### **FUNCTIONS**

Zero/Span Adjustment Modes

Run Mode

Normal operating mode
Input 0 % Adjustment Mode

Apply the actual 0% input and press SET.

Input 100 % Adjustment Mode

Apply the actual 100 % input and press SET.

· How to Operate



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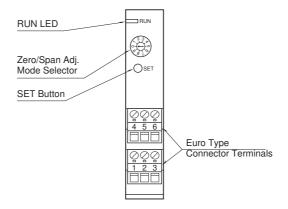
MODEL: R5-MS

- 1) Start up in Monitor Mode (SW position = 0) and wait for 2 or 3 seconds.
- 2) Switch to another mode and go through the adjustments.
- 3) Reset the switch to the position '0' so that the new setting is stored in the internal memory.

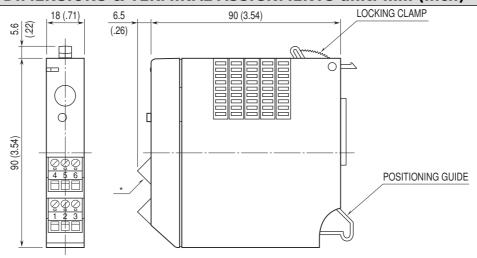
#### Cautions on the LEDs

- 1) Mode switching from Run to another mode becomes effective when SET button is touched and the LED for the respective mode starts blinking after the rotary switch setting has been changed.
- 2) Mode switching back to Monitor becomes effective automatically in a few seconds after the switch is reset to '0' and is confirmed with the LED stopping blinking.

## **EXTERNAL VIEW**

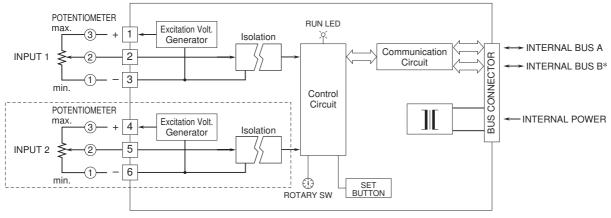


## **EXTERNAL DIMENSIONS & TERMINAL ASSIGNMENTS unit: mm (inch)**



\*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.

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