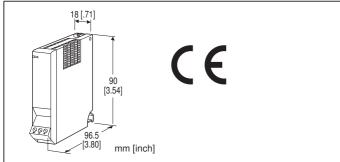
Remote I/O R5 Series

4 - 20 mA INPUT MODULE

(2-wire transmitter excitation supply)



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

ORDERING INFORMATION

- Code number: R5-DS[1][2][3]
- Specify a code from below for each of [1] through [3]. (e.g. R5-DS2W/S/Q)
- Specify the specification for option code /Q (e.g. /C01)

[1] NO. OF CHANNELS

1: 1 channel
2: 2 channels

[2] COMMUNICATION MODE

S: Single W: Dual

[3] OPTIONS (multiple selections)

Input resistance blank: 100Ω /S: 250Ω (for smart transmitters) Other Options blank: none /Q: Option other than the above (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 (Applicable wire size: 0.2 – 2.5 mm² (AWG24 - 12), stripped length 7 mm) Internal power: Via the base (model: R5-BS) Isolation: Input 1 to input 2 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.

SUPPLY OUTPUT

Output voltage: 24 - 29 V DC with no load Current rating: ≤ 22 mA DC • Shortcircuit Protection Current limited: 30 mA max. Protected time duration: No limit

INPUT SPECIFICATIONS

Input: 4 - 20 mA DC; input resistor incorporated

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

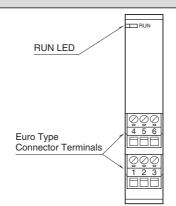
Conversion accuracy: $\pm 0.05 \%$ Data range: 0 - 10000 of the input range Data allocation: 1 (2 for 2-channel type) Temp. coefficient: $\pm 0.015 \%/^{\circ}C (\pm 0.008 \%/^{\circ}F)$ Response time: $\leq 0.2 \text{ sec.} (0 - 90 \%)$ Insulation resistance: $\geq 100 \text{ M}\Omega$ with 500 V DC 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

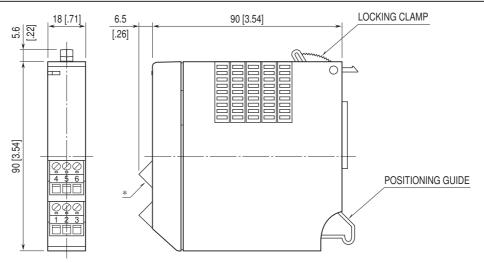
EU conformity: EMC Directive EMI EN 61000-6-4 EMS EN 61000-6-2 RoHS Directive



EXTERNAL VIEW



EXTERNAL DIMENSIONS & TERMINAL ASSIGNMENTS unit: mm [inch]



*Euro type connector terminals [4, 5 and 6] provided only with 2-ch. option.



SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM

