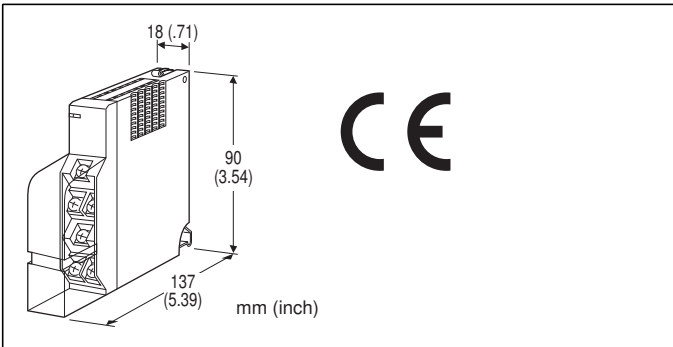


Remote I/O R5 Series

4 - 20 mA INPUT MODULE

(screw terminal block; 2-wire transmitter excitation supply)



MODEL: R5T-DS[1][2][3]

ORDERING INFORMATION

Code number: R5T-DS[1][2][3]
Specify a code from below for each [1] through [3].
(e.g. R5T-DS2W/S/Q)
• Specify the specification for option code /Q
(e.g. /C01/S01)

[1] NO. OF CHANNELS

1: 1 channel
2: 2 channels

[2] COMMUNICATION MODE

S: Single
W: Dual

[3] OPTIONS (multiple selections)

Input resistance

blank: 100 Ω
/S: 250 Ω (for smart transmitters)

Other Options

blank: none
/Q: Option other than the above (specify the specification)

SPECIFICATIONS OF OPTION: Q (multiple selections)

COATING (For the detail, refer to M-System's web site.)

/C01: Silicone coating
/C02: Polyurethane coating
/C03: Rubber coating

TERMINAL SCREW MATERIAL

/S01: Stainless steel

GENERAL SPECIFICATIONS

Connection

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

Input: M3.5 screw terminal block
(torque 0.8 N·m)

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

Screw terminal: Nickel-plated steel (standard) or stainless steel

Isolation: Input 1 to input 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.

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-BSx)

Weight: 110 g (0.24 lb)

PERFORMANCE

Conversion accuracy: ± 0.05 %

Data range: 0 - 10000 of the input range

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

Temp. coefficient: ± 0.015 %/°C (± 0.008 %/°F)

Response time: ≤ 0.2 sec. (0 - 90 %)

Insulation resistance: ≥ 100 M Ω with 500 V DC

Dielectric strength: 1500 V AC @ 1 minute (input 1 to input 2 to internal power)

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

STANDARDS & APPROVALS

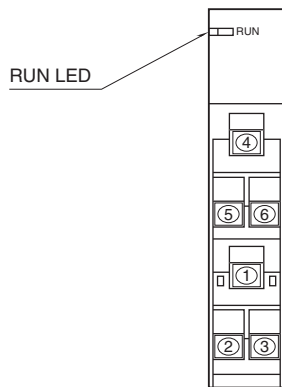
CE conformity:

EMC Directive (2004/108/EC)

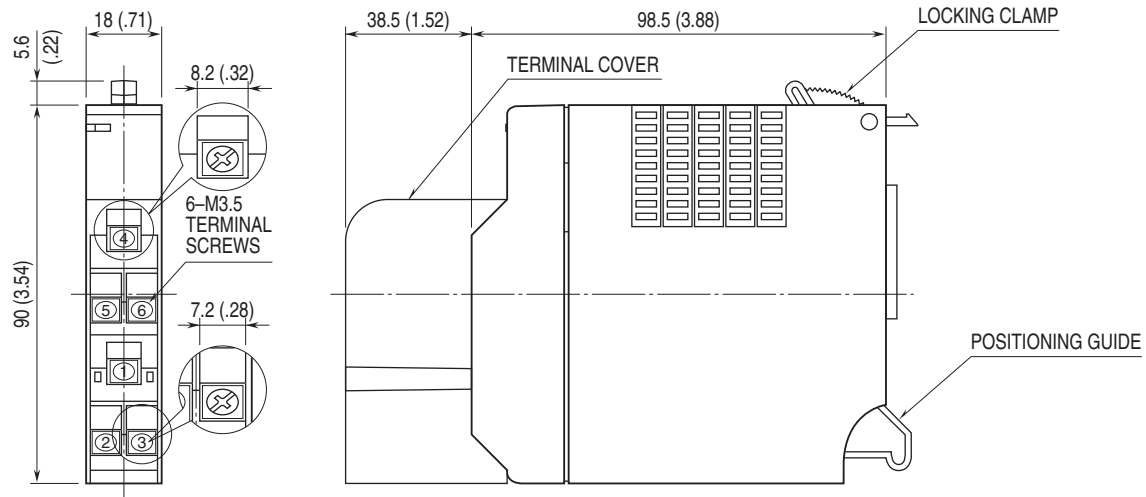
EMI EN 61000-6-4: 2007

EMS EN 61000-6-2: 2005

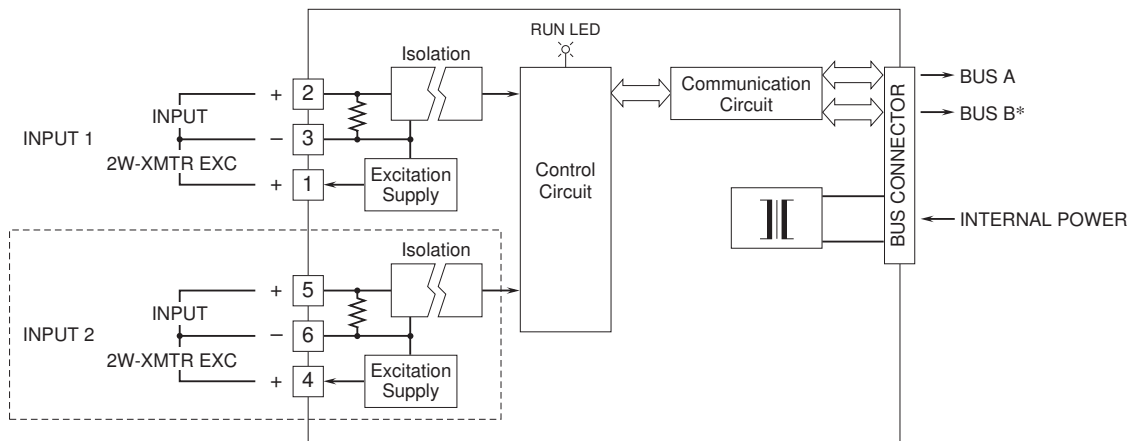
EXTERNAL VIEW



EXTERNAL DIMENSIONS & TERMINAL ASSIGNMENTS unit: mm (inch)



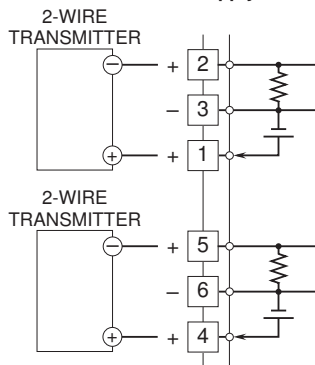
SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM



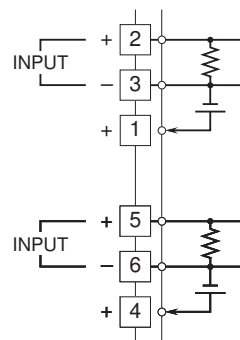
*For dual redundant communication.

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

When Used as DC Supply



When Used as Current Input



Specifications are subject to change without notice.