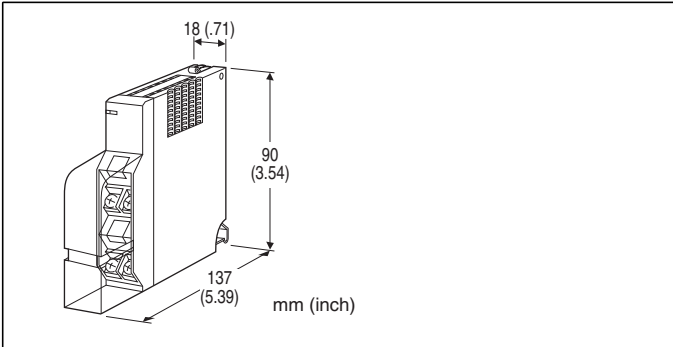


## Remote I/O R5 Series

### AC VOLTAGE INPUT MODULE

(screw terminal block; true RMS sensing)



### MODEL: R5T-PT[1][2][3]

#### ORDERING INFORMATION

- Code number: R5T-PT[1][2][3]  
Specify a code from below for each [1] through [3].  
(e.g. R5T-PT2W/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

- blank: none
- /Q: With options (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

**Input waveform**

**RMS sensing:** Up to 15 % of 3rd harmonic content

**Input range:** Selectable with the side DIP SW

**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.

**Low-end cutout:** Converted as 0 % for the input below 2 %

#### INPUT SPECIFICATIONS

**Input:** 0 - 300 V AC, 0 - 150 V AC

**Frequency:** 50 or 60 Hz

**Input burden:** ≤ 1 VA

**Overload capacity:** 200 % for 1 min.,  
120 % continuous

**Operational range:** 5 - 115 % of rating

0 - 300 V is converted into 0 - 10000 at default factory setting.

#### 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:** ±0.5 % (at 5 - 100 % input)

**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:** ≤ 0.5 sec. (0 - 90 %)

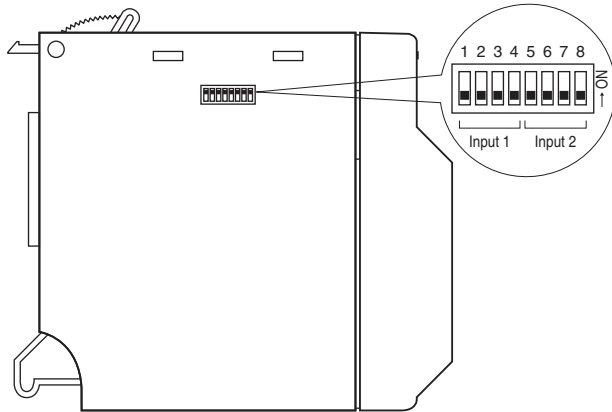
**Insulation resistance:** ≥ 100 MΩ with 500 V DC

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

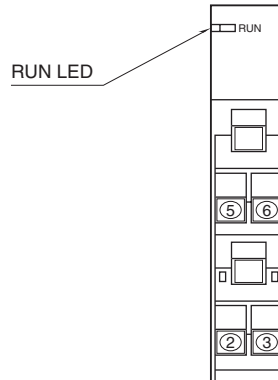
2000 V AC @ 1 minute (power input to FG; isolated on the power supply module)

## EXTERNAL VIEW

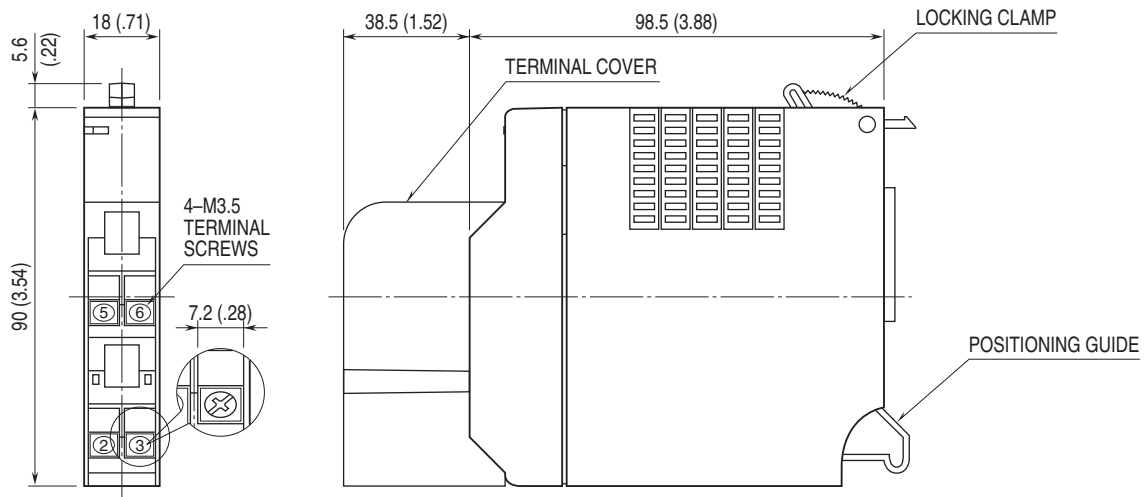
### ■ SIDE VIEW



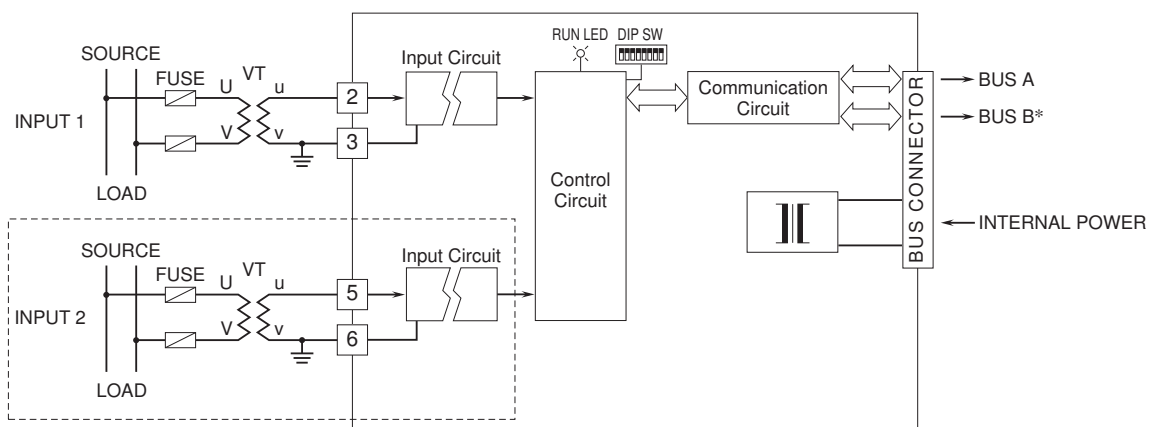
### ■ FRONT VIEW



## 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.



Specifications are subject to change without notice.