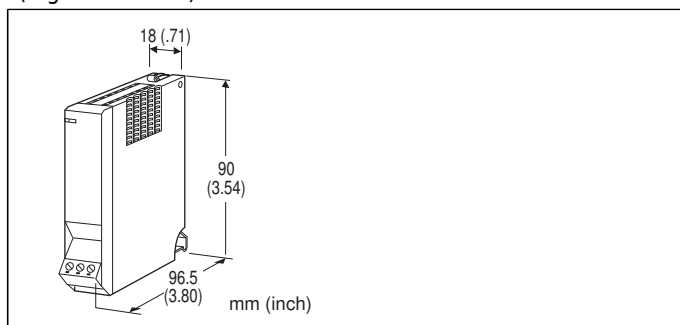


Remote I/O R5 Series

RTD INPUT MODULE

(high resolution)



MODEL: R5-RSA[1][2]

ORDERING INFORMATION

- Code number: R5-RSA[1][2]

Specify a code from below for each [1] and [2]
(e.g. R5-RSA2W)

[1] NO. OF CHANNELS

- 1: 1 channel
- 2: 2 channels

[2] COMMUNICATION MODE

- S: Single
- W: Dual

GENERAL SPECIFICATIONS

Connection

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

Input: Euro type connector terminal
Wire size AWG24-12 (0.2 – 2.5 mm²)

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

Isolation: Input 1 to input 2 to internal power

Sensor type: Selectable with the side DIP SW

Temperature unit: °C or °F selectable with the side DIP SW

Burnout detection: Upscale or downscale selectable with the side DIP SW

Linearization: Standard

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

Maximum leadwire resistance: 10 Ω per wire

Sensing current: ≤ 1 mA

(Factory setting is Pt 100 (JIS '97, IEC))

Temperature range

RTD	USABLE RANGE °C	BURNOUT VALUES °C × 100
JPt 100 (JIS '89)	-20 to +200	-23600, +32767
Pt 100 (JIS '89)	-20 to +200	-24000, +32767
Pt 100 (JIS '97, IEC)	-20 to +200	-24000, +32767
RTD	USABLE RANGE °F	BURNOUT VALUES °F × 10
JPt 100 (JIS '89)	-4 to +392	-3928, +10400
Pt 100 (JIS '89)	-4 to +392	-4000, +16500
Pt 100 (JIS '97, IEC)	-4 to +392	-4000, +16500

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: ±0.1°C (±0.2°F)

Data range

°C: Engineering unit value × 100 (integer)

°F: Engineering unit value × 10 (integer)

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

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

Response time: ≤ 0.2 sec. (0 – 90 %)

Burnout response time: ≤ 2 sec.

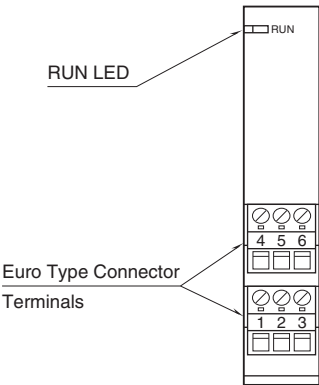
Insulation resistance: ≥ 100 MΩ with 500 V DC

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

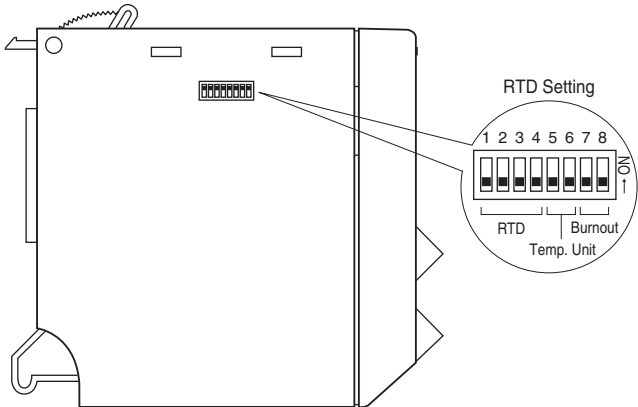
2000 V AC @ 1 minute (power input to FG; isolated on the power supply module)

EXTERNAL VIEW

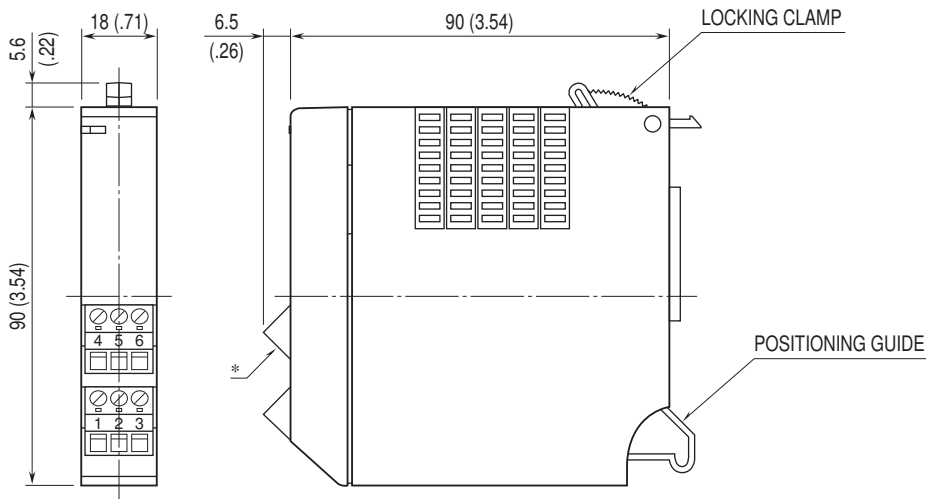
FRONT VIEW



SIDE VIEW

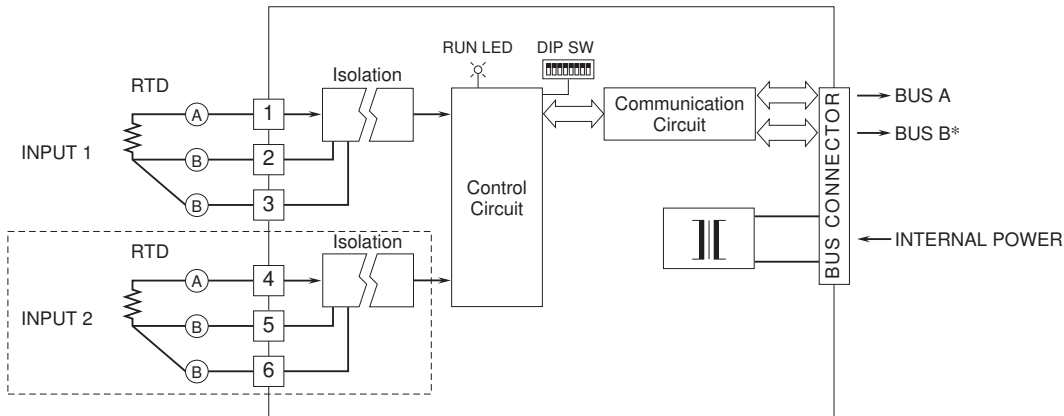


EXTERNAL DIMENSIONS & TERMINAL ASSIGNMENTS unit: mm (inch)



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

SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM



*For dual redundant communication.
NOTE: The section enclosed by broken line is with 2-ch. option.



Specifications are subject to change without notice.