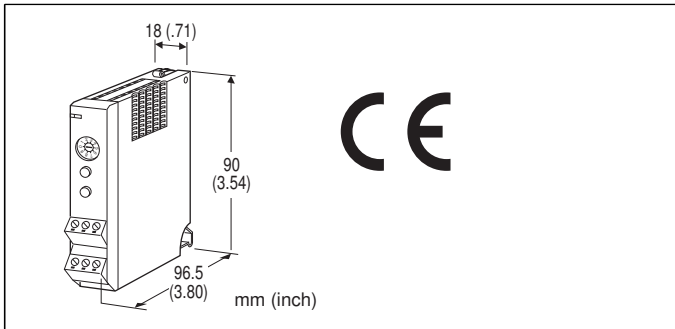


Remote I/O R5 Series

DC CURRENT INPUT MODULE

(re-transmitted output)



MODEL: R5-SS1A[1]

ORDERING INFORMATION

- Code number: R5-SS1A[1]
 Specify a code from below for each [1]
 (e.g: R5-SS1AW)

NO. OF CHANNELS

1: 1 channel

OUTPUT

Current

A: 4 – 20 mA DC (Load resistance 600 Ω max.)

[1] COMMUNICATION MODE

S: Single

W: Dual

GENERAL SPECIFICATIONS

Connection

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

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

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

Isolation: Input to output to internal power

Zero/Span adj. mode selector: Rotary switch; monitor mode, adj. mode and simulated output mode selectable

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.

INPUT SPECIFICATIONS

■ **Narrow Span:** -1 – +1 mA, 0 – 1 mA DC

Input resistance: 2000 Ω resistor incorporated

■ **Wide Span:** -40 – +40 mA, -20 – +20 mA 0 – 40 mA,
 0 – 20 mA, 4 – 20 mA DC

Input resistance: 50 Ω resistor incorporated

OUTPUT SPECIFICATIONS

Operational range: Approx. 0 – 24 mA 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-BSx)

Weight: 100 g (3.53 oz)

PERFORMANCE

Conversion accuracy

Input: ± 0.1 %

Output: ± 0.1 % of the retransmitted range + input
 conversion accuracy

Data range: 0 – 10000 of the input range

Data allocation: 1

Temp. coefficient

Input: ± 0.015 %/°C (± 0.008 %/°F)

Output: ± 0.02 %/°C (± 0.01 %/°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 to output
 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

FUNCTIONS

• Zero/Span Adjustment Modes

Monitor Mode

Re-transmits the input signal as output in proportion.

Output 0 % Adjustment Mode

Adjusts the 0 % output signal using the front UP/DOWN buttons, in monitoring the output value with a multimeter. SW1 through SW3 switch the internal increments by 1, 5 and 10.

Output 100 % Adjustment Mode

Adjusts the 100 % output signal using the front UP/DOWN buttons, in monitoring the output value with a multimeter. SW4 through SW6 switch the internal increments by 1, 5 and 10.

Simulated Output Mode

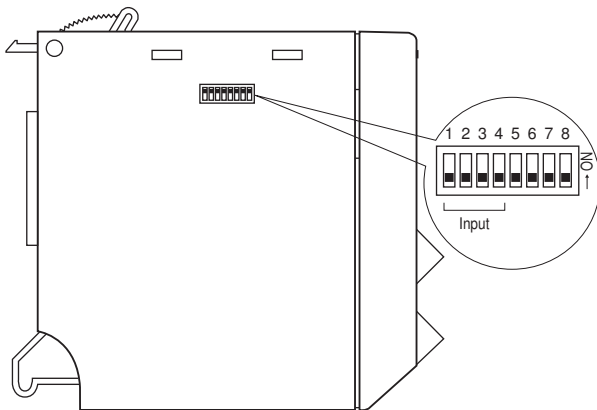
Outputs the simulated signals of 0 %, 50 % and 100 %.

• How to Operate

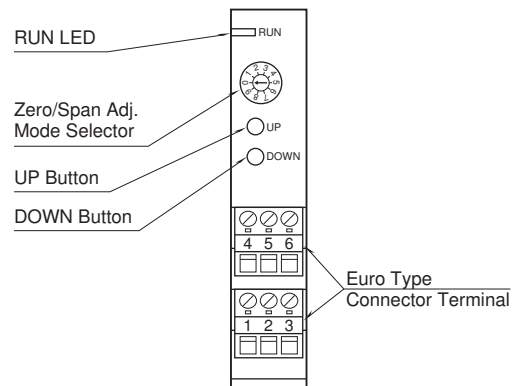
- 1) Start up in Monitor Mode (SW position = 0) and wait for 2 or 3 seconds.
- 2) Switch to another mode and go through the adjustments.
- 3) Reset the switch to the position '0' so that the new setting is stored in the internal memory.

EXTERNAL VIEW

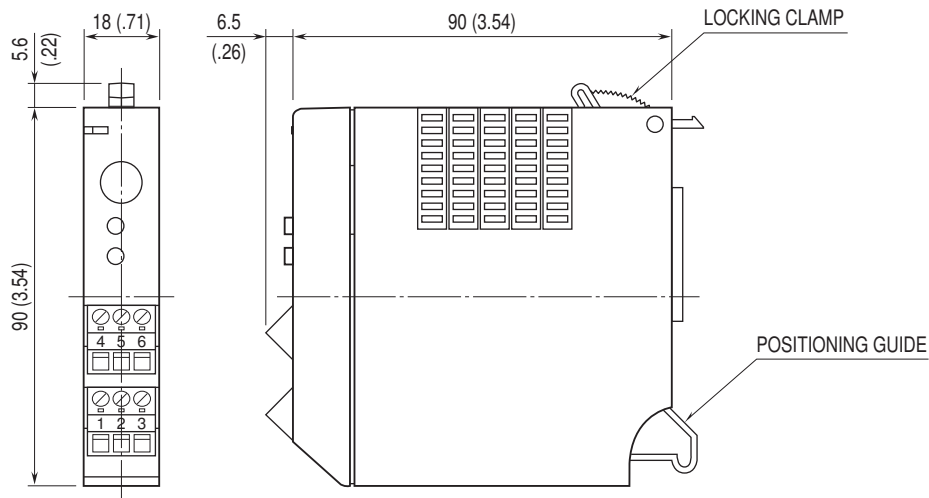
SIDE VIEW



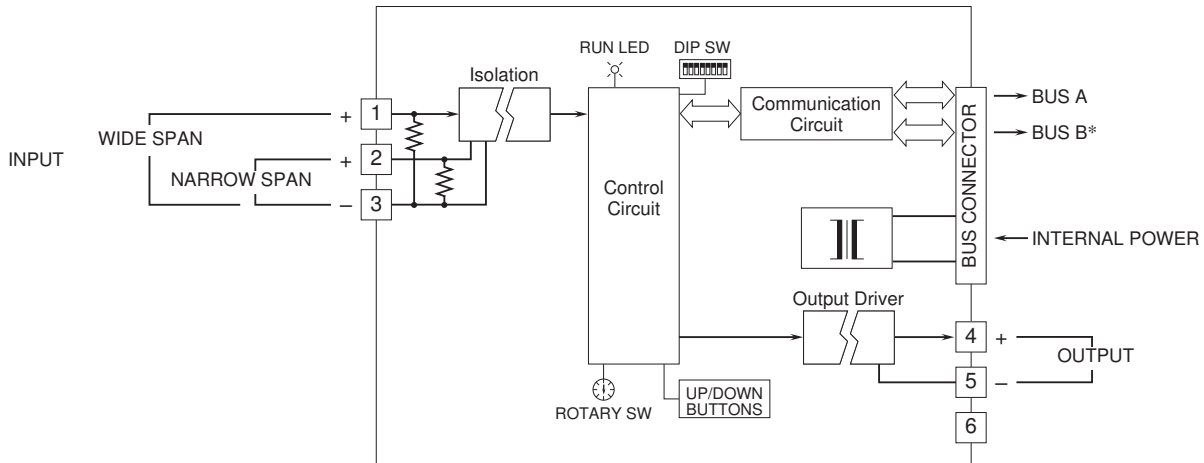
FRONT VIEW



EXTERNAL DIMENSIONS & TERMINAL ASSIGNMENTS unit: mm (inch)



SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM



*For dual redundant communication.
NOTE: Connect either wide or narrow span terminals for each channel.



Specifications are subject to change without notice.