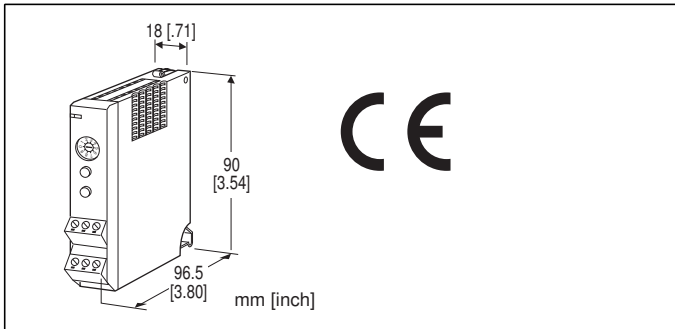


## Remote I/O R5 Series

### DC CURRENT INPUT MODULE

(re-transmitted output)



### MODEL: R5-SS1A[1][2]

#### ORDERING INFORMATION

- Code number: R5-SS1A[1][2]  
Specify a code from below for each of [1] and [2].  
(e.g. R5-SS1AW/Q)
- Specify the specification for option code /Q  
(e.g. /C01)

#### NO. OF CHANNELS

1: 1 channel

#### OUTPUT

Current

A: 4 - 20 mA DC (Load resistance 600  $\Omega$  max.)

#### [1] COMMUNICATION MODE

S: Single

W: Dual

#### [2] OPTIONS

blank: none

/Q: With options (specify the specification)

#### SPECIFICATIONS OF OPTION: Q

COATING (For the detail, refer to our web site.)

/C01: Silicone coating

/C02: Polyurethane coating

/C03: Rubber coating

#### GENERAL SPECIFICATIONS

Connection

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

I/O: Euro type connector terminal

(Applicable wire size: 0.2 - 2.5 mm<sup>2</sup> (AWG24 - 12),  
stripped length 7 mm)

Internal power: Via the base (model: R5-BS)

Isolation: Input to output to internal bus or 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  $\Omega$  resistor incorporated

■ Wide Span: -40 - +40 mA, -20 - +20 mA 0 - 40 mA,

0 - 20 mA, 4 - 20 mA DC

Input resistance: 50  $\Omega$  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-BS)

Weight: 100 g (0.22 lb)

#### PERFORMANCE

Conversion accuracy

Input:  $\pm 0.1$  %

Output:  $\pm 0.1$  % of the retransmitted range + input  
conversion accuracy

Data range: 0 - 10000 of the input range

Data allocation: 1

Temp. coefficient

Input:  $\pm 0.015$  %/°C ( $\pm 0.008$  %/°F)

Output:  $\pm 0.02$  %/°C ( $\pm 0.01$  %/°F)

Response time:  $\leq 0.2$  sec. (0 - 90 %)

Insulation resistance:  $\geq 100$  M $\Omega$  with 500 V DC

Dielectric strength: 1500 V AC @ 1 minute (input to output  
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

## 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

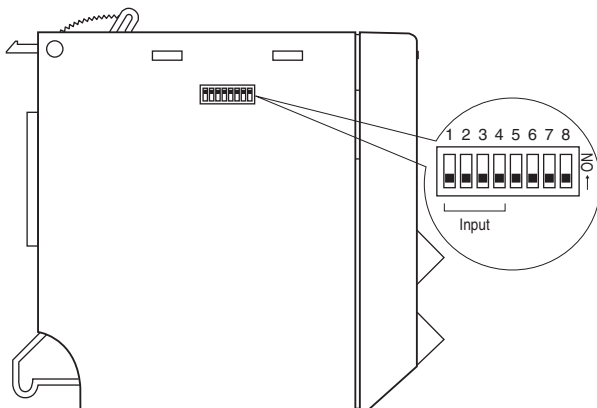
Outputs the simulated signals of 0 %, 50 % and 100 %.

### • How to Operate

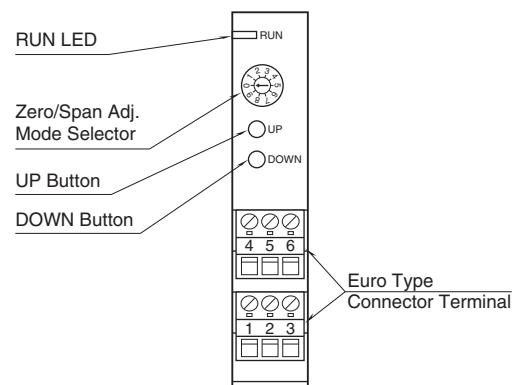
- 1) Start up in Monitor Mode (SW position = 0) and wait for 2 or 3 seconds.
- 2) Switch to another mode and go through the adjustments.
- 3) Reset the switch to the position '0' so that the new setting is stored in the internal memory.

## EXTERNAL VIEW

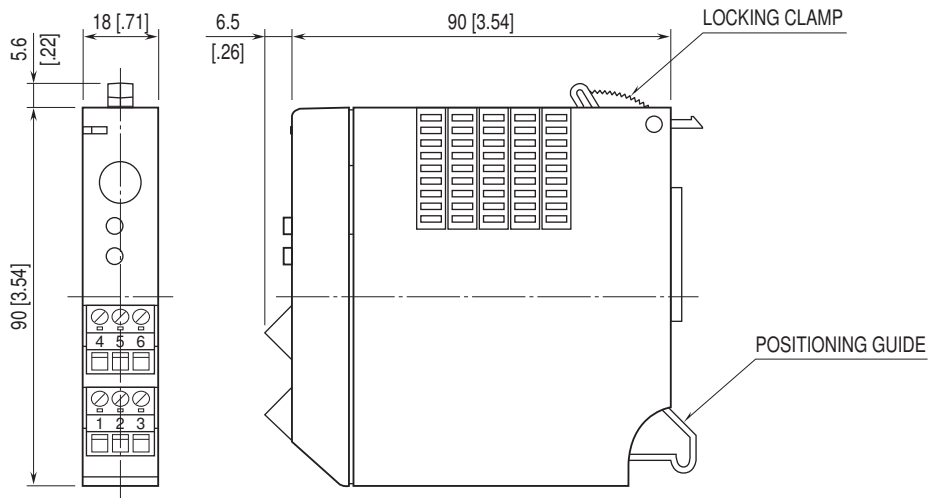
### ■ SIDE VIEW



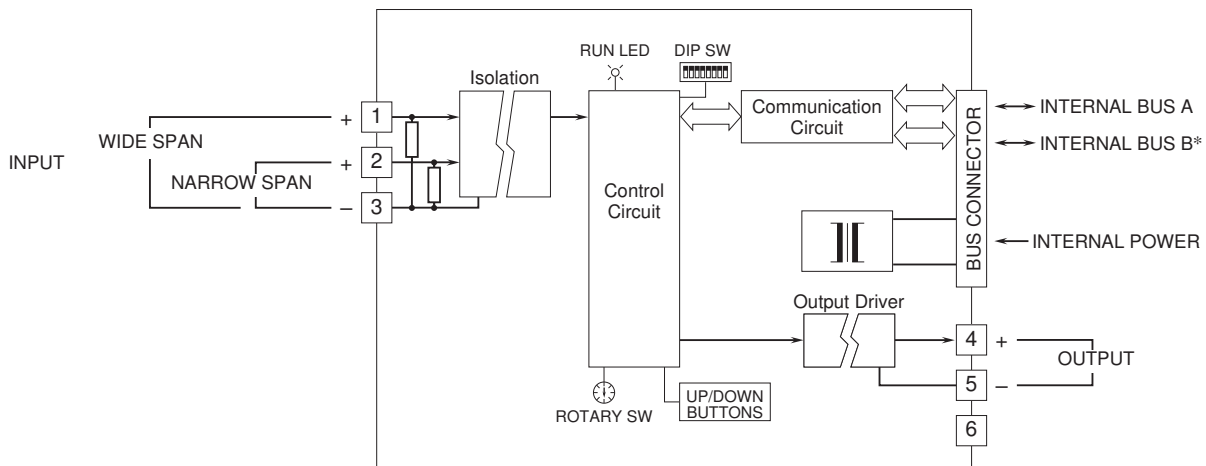
### ■ FRONT VIEW



## 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.