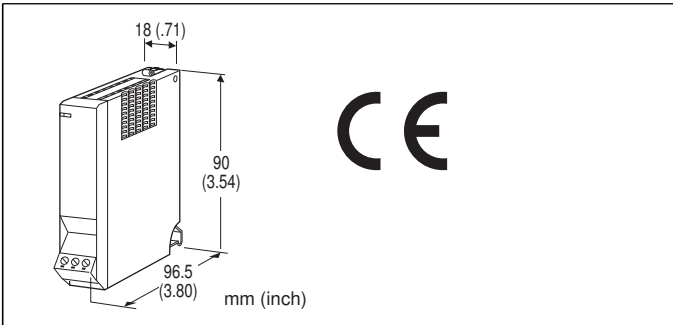


## Remote I/O R5 Series

### DC VOLTAGE INPUT MODULE



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

#### ORDERING INFORMATION

- Code number: R5-SV[1][2]
- Specify a code from below for [1], [2]  
(e.g. R5-SV2W)

#### [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 mm<sup>2</sup>)
- Power supply:** Via the base (model: R5-BSx)
- Isolation:** Input 1 to input 2 to internal power
- 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 V, 0 – 1 V DC  
**Input resistance:** 100 kΩ min.
- **Wide Span:** -10 – +10 V, -5 – +5 V,  
0 – 10 V, 0 – 5 V, 1 – 5 V DC  
**Input resistance:** 1 MΩ min.

#### 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

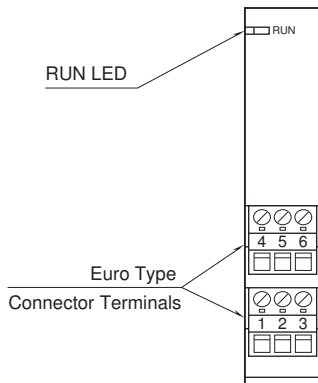
- Conversion accuracy:** ±0.05 %
- Data range:** 0 – 10000 of the input range
- Data allocation:** 1 (2 for 2-channel type)
- Temp. coefficient:** ±0.015 %/°C (±0.008 %/°F)
- Response time:** ≤ 0.2 sec. (0 – 90 %)
- Insulation resistance:** ≥ 100 MΩ with 500 V DC
- Dielectric strength:** 1500 V AC @ 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)

#### STANDARDS & APPROVALS

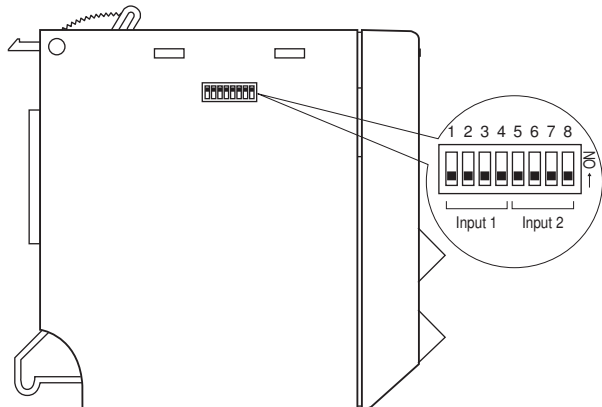
- CE conformity:**
- EMC Directive (2004/108/EC)
- EMI EN 61000-6-4: 2007
- EMS EN 61000-6-2: 2005

## EXTERNAL VIEW

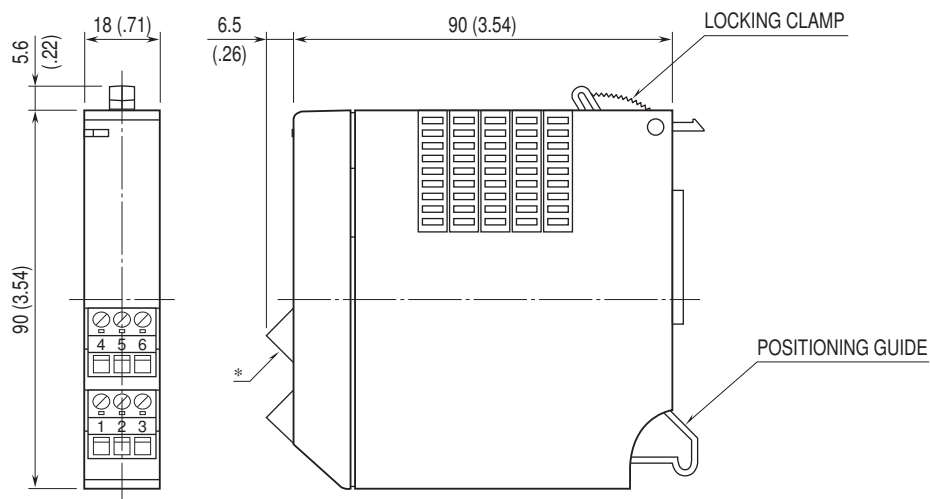
SIDE VIEW



FRONT VIEW

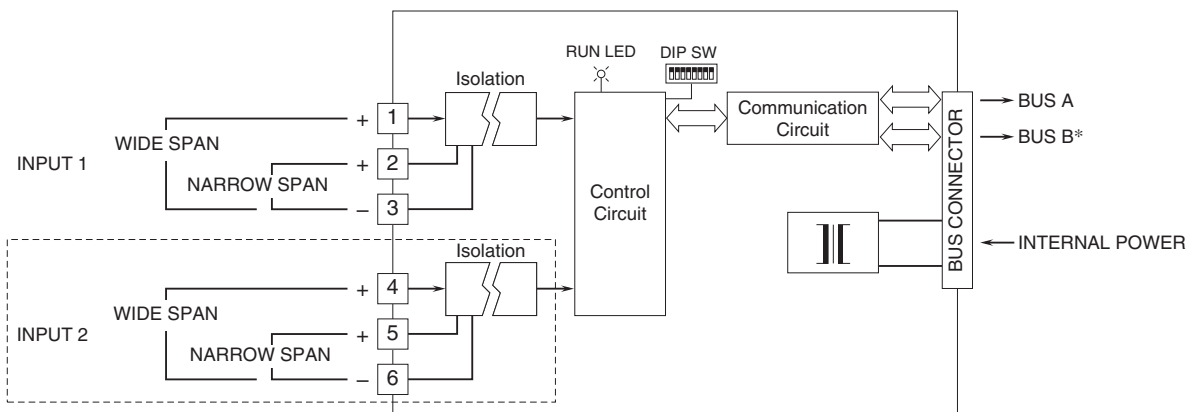


## EXTERNAL DIMENSIONS & TERMINAL ASSIGNMENTS unit: mm (inch)



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

## SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM



\*For dual redundant communication.

NOTE: Connect either wide or narrow span terminals for each channel.  
The section enclosed by broken line is with 2-ch. option.



Specifications are subject to change without notice.