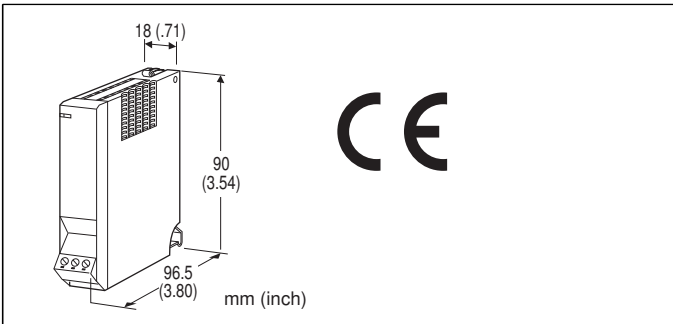


Remote I/O R5 Series

4 - 20 mA INPUT MODULE

(2-wire transmitter excitation supply)



MODEL: R5-DS[1][2][3]

ORDERING INFORMATION

- Code number: R5-DS[1][2][3]
- Specify a code from below for each, [1] through [3]
(e.g: R5-DS2W/S)

[1] NO. OF CHANNELS

- 1: 1 channel
- 2: 2 channels

[2] COMMUNICATION MODE

- S: Single
- W: Dual

[3] OPTIONS

Input resistance

- blank: 100 Ω
- /S: 250 Ω (for smart transmitters)

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
- 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.

SUPPLY OUTPUT

- Output voltage:** 24 - 29 V DC with no load
- Current rating:** ≤ 22 mA DC
- **Shortcircuit Protection**
- Current limited:** 30 mA max.
- Protected time duration:** No limit

INPUT SPECIFICATIONS

- Input:** 4 - 20 mA DC; input resistor incorporated

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)

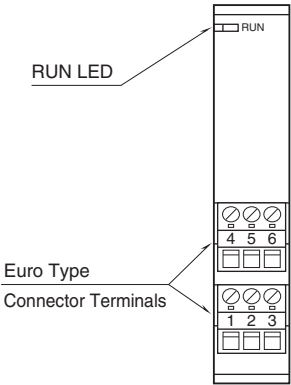
PERFORMANCE

- 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 M Ω 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)

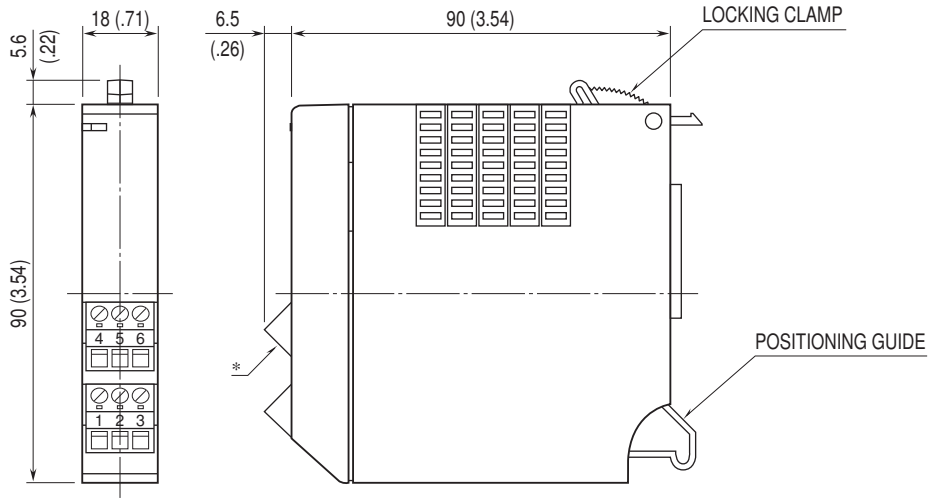
STANDARDS & APPROVALS

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

EXTERNAL VIEW

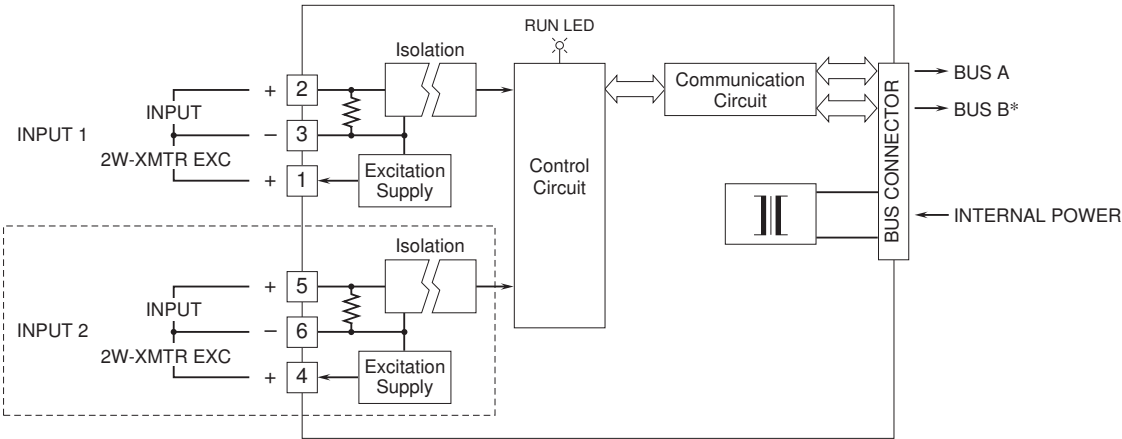


EXTERNAL DIMENSIONS & TERMINAL ASSIGNMENTS unit: mm (inch)



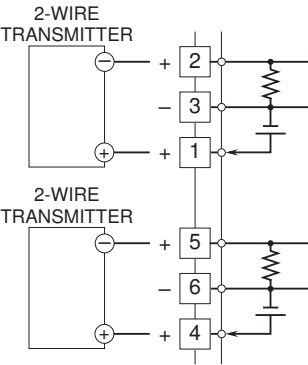
*Euro type connector terminals (4, 5 and 6) provided only with 2-ch. option.

SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM

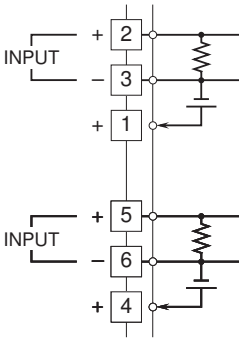


*For dual redundant communication.
NOTE: The section enclosed by broken line is with 2-ch. option.

When Used as DC Supply



When Used as Isolator



Specifications are subject to change without notice.