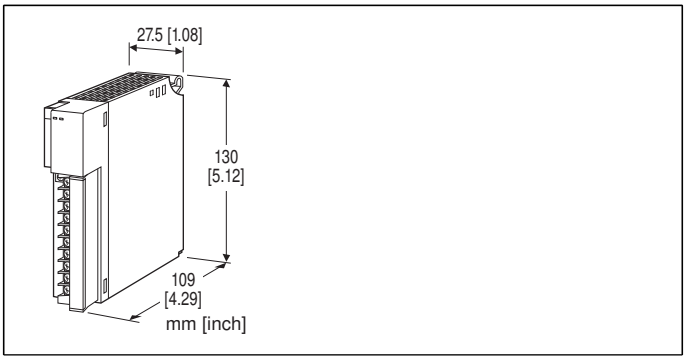
Remote I/O R3 Series

DC VOLTAGE INPUT MODULE

(4 points, isolated, wide span voltage up to ±50 V)



MODEL: R3-SV4C[1][2]

ORDERING INFORMATION

• Code number: R3-SV4C[1][2]
Specify a code from below for each of [1] and [2].
(e.g. R3-SV4CW/Q)
• Specify the specification for option code /Q
(e.g. /C01/SET)

NO. OF CHANNELS

4C: 4 points, wide span voltage up to ±50 V

[1] COMMUNICATION MODE

S: Single
W: Dual

[2] OPTIONS

blank: none
/Q: With options (specify the specification)

SPECIFICATIONS OF OPTION: Q (multiple selections)

COATING (For the detail, refer to our web site.)
/C01: Silicone coating
/C02: Polyurethane coating
/C03: Rubber coating
EX-FACTORY SETTING
/SET: Preset according to the Ordering Information Sheet (No. ESU-8409)

CAUTION

■UNUSED INPUT CHANNELS
Set the unused channels to open. Otherwise, set them as "Unused" with PC Configurator software: R3CON.

GENERAL SPECIFICATIONS

Connection
Internal bus: Via the Installation Base (model: R3-BSx)
Input: M3 separable screw terminal (torque 0.5 N·m)
Internal power: Via the Installation Base (model: R3-BSx)
Screw terminal: Nickel-plated steel
Isolation: Input 1 to input 2 to input 3 to input 4 to internal bus or internal power
Input range: Selectable with the side DIP SW
Conversion rate: 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.
ERR indicator: Bi-color (red/green) LED;
Red with input circuit abnormality (AD converter response failure);
Green in normal operating conditions.

INPUT SPECIFICATIONS

Input: -50 – +50 V, -25 – +25 V, 0 – 50 V, 0 – 25 V
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: R3-BSx)
Weight: 200 g (0.44 lb)

PERFORMANCE

Conversion accuracy: Refer to the table at the end of this section.
Conversion rate: 80 / 40 / 20 / 10 msec. selectable
Data range: 0 – 10000 of the input range
Data allocation: 4
Current consumption: 60 mA
Temp. coefficient: ±0.015 %/°C (±0.008 %/°F)
Insulation resistance: ≥ 100 MΩ with 500 V DC
Dielectric strength: 1500 V AC @ 1 minute (input 1 to input 2 to input 3 to input 4 to internal bus or internal power)
2000 V AC @ 1 minute (power input to FG; isolated on the power supply module)

Conversion accuracy:

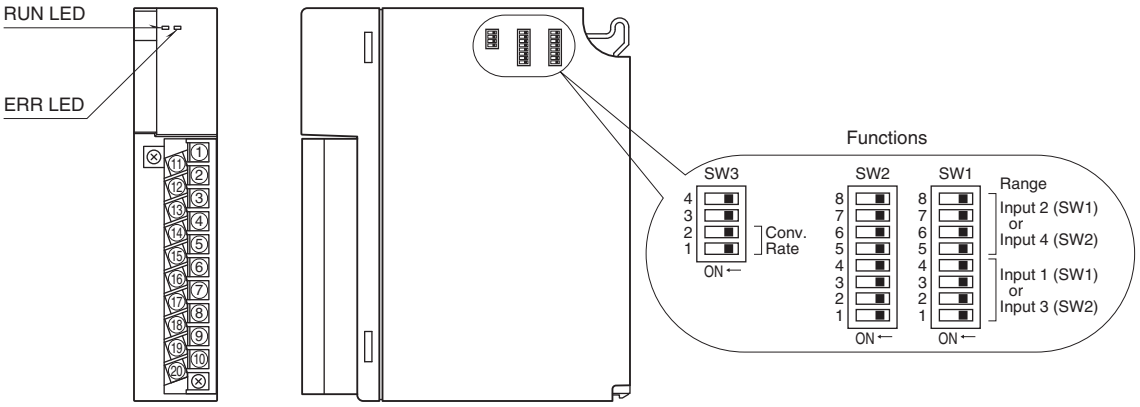
RATE	80 msec.	40 msec.	20 msec.	10 msec.
Accuracy	±0.05%	±0.1%	±0.2%	±0.4%

MG CO., LTD.
www.mgco.jp

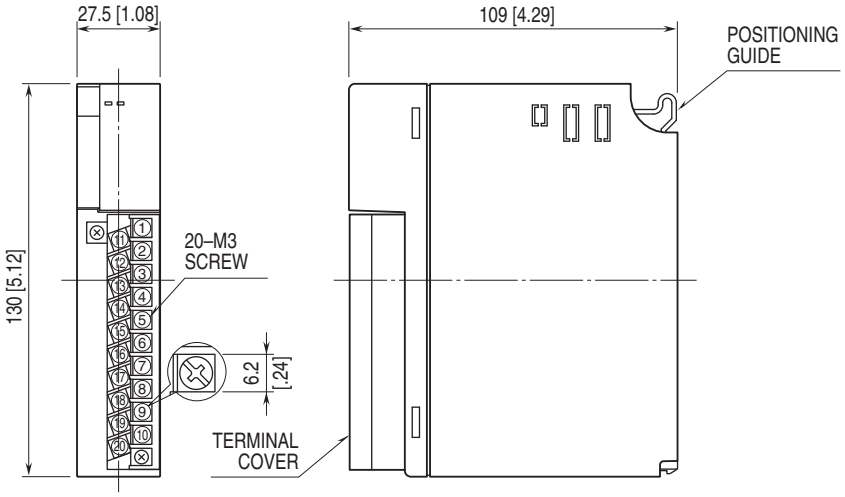
EXTERNAL VIEW

■ FRONT VIEW

■ SIDE VIEW

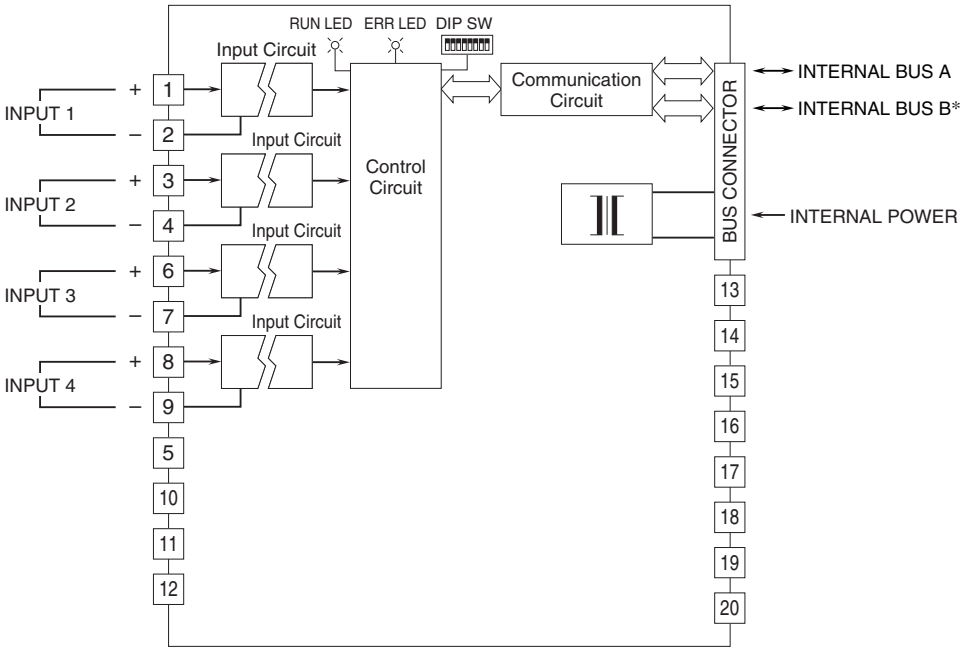


EXTERNAL DIMENSIONS & TERMINAL ASSIGNMENTS unit: mm [inch]



MG CO., LTD.
www.mgco.jp

SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM



*For dual redundant communication.
DO NOT connect external wiring to the unused terminals.

⚠ Specifications are subject to change without notice.

MG CO., LTD.
www.mgco.jp