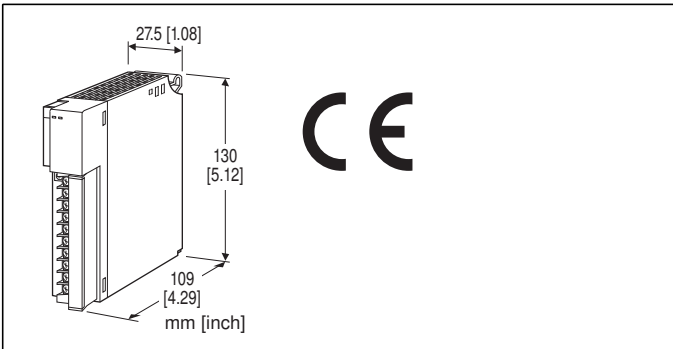


Remote I/O R3 Series

DC CURRENT INPUT MODULE

(4 points, isolated)



MODEL: R3-SS4[1][2]

ORDERING INFORMATION

- Code number: R3-SS4[1][2]
Specify a code from below for each of [1] and [2].
(e.g. R3-SS4W/CE/Q)
- Specify the specification for option code /Q
(e.g. /C01/SET)

NO. OF CHANNELS

4: 4

[1] COMMUNICATION MODE

S: Single

W: Dual

[2] OPTIONS (multiple selections)

Standards & Approvals

blank: Without CE

/CE: CE marking

Other Options

blank: none

/Q: Option other than the above (specify the specification)

SPECIFICATIONS OF OPTION: Q (multiple selections)

COATING (For the detail, refer to M-System's web site.)

/C01: Silicone coating

/C02: Polyurethane coating

/C03: Rubber coating

EX-FACTORY SETTING

/SET: Preset according to the Ordering Information Sheet
(No. ESU-8393)

CAUTION

■ UNUSED INPUT CHANNELS

Set the unused channels to -20 ~ +20 mA or 0 ~ 20 mA range. Otherwise, set them as "Unused" with PC Configurator software: R3CON. Unused channels left open with 4 ~ 20 mA setting are equal to the input lower than -15 %, which sets a data abnormality at the PLC or the host device.

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

■ **DC Current:** -20 ~ +20 mA, 0 ~ 20 mA, 4 ~ 20 mA DC

Input resistance: 20 Ω 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: 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: $\pm 0.03\ \%/^{\circ}\text{C}$ ($\pm 0.02\ \%/^{\circ}\text{F}$)

Insulation resistance: $\geq 100\ \text{M}\Omega$ 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)

RANGE \ RATE	80 msec.	40 msec.	20 msec.	10 msec.
-20 – +20 mA	$\pm 0.05\%$	$\pm 0.1\%$	$\pm 0.2\%$	$\pm 0.4\%$
0 – 20 mA	$\pm 0.1\%$	$\pm 0.2\%$	$\pm 0.4\%$	$\pm 0.8\%$
4 – 20 mA	$\pm 0.1\%$	$\pm 0.2\%$	$\pm 0.4\%$	$\pm 0.8\%$

STANDARDS & APPROVALS

EU conformity:

EMC Directive

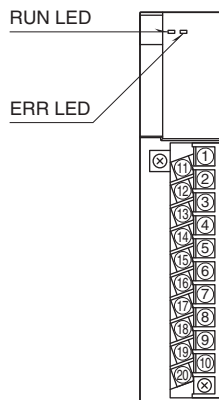
EMI EN 61000-6-4

EMS EN 61000-6-2

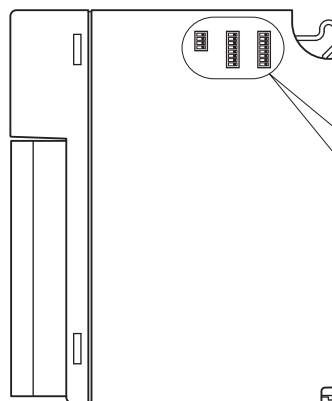
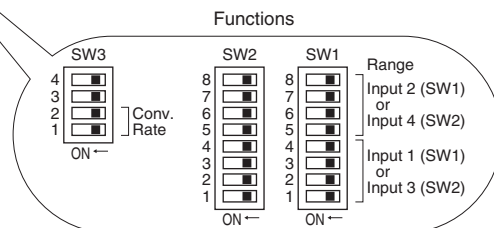
RoHS Directive

EXTERNAL VIEW

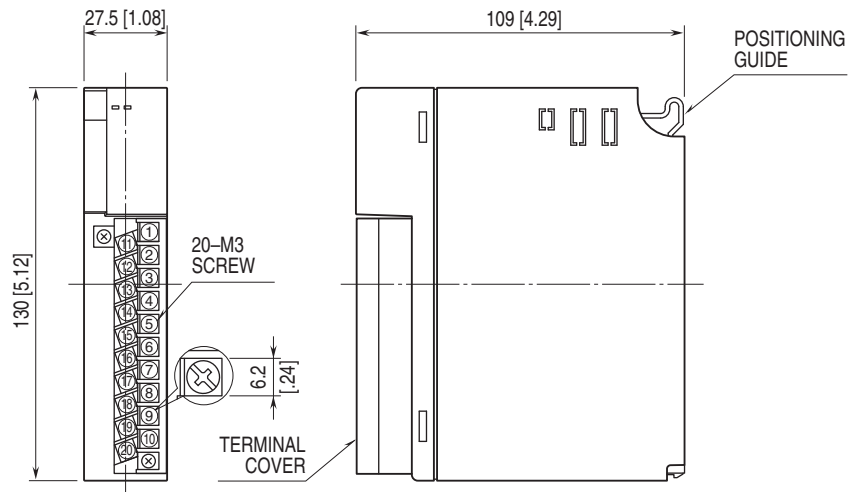
FRONT VIEW



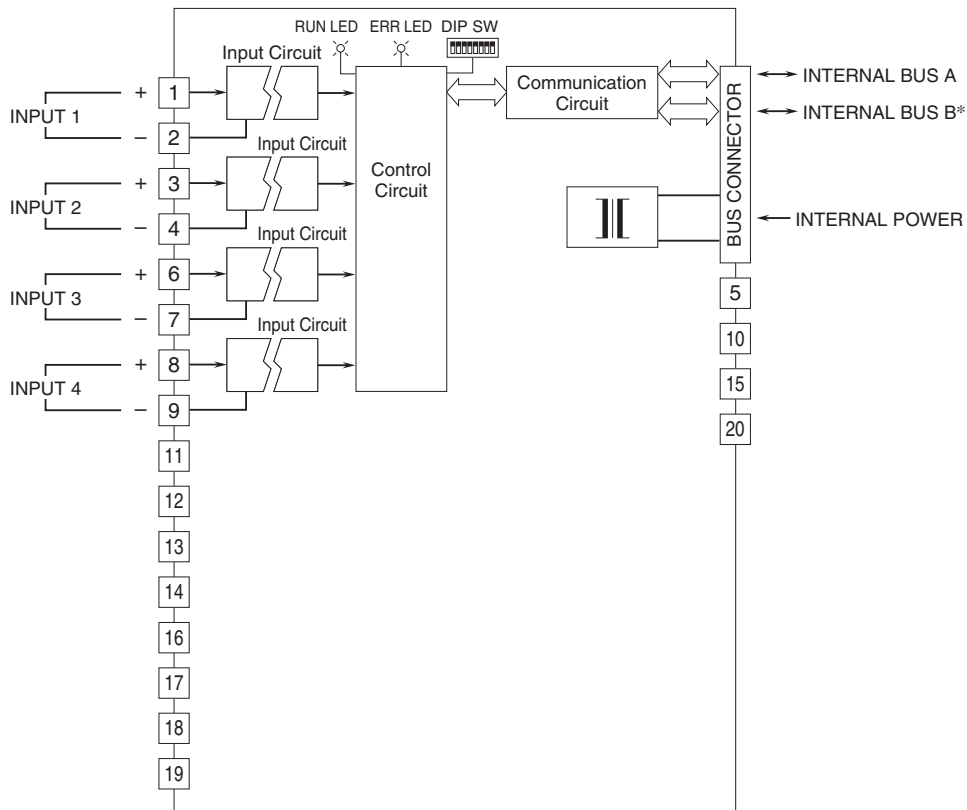
SIDE VIEW



EXTERNAL DIMENSIONS & TERMINAL ASSIGNMENTS unit: mm [inch]



SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM



*For dual redundant communication.



Specifications are subject to change without notice.