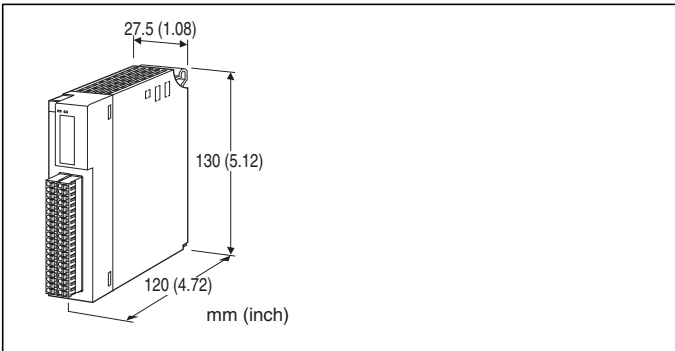


Remote I/O R3 Series

DC CURRENT INPUT MODULE

(8 points, non-isolated, tension clamp terminal block)



MODEL: R3S-SS8N[1][2]

ORDERING INFORMATION

- Code number: R3S-SS8N[1][2]
Specify a code from below for each of [1] and [2].
(e.g. R3S-SS8NW/Q)
- Specify the specification for option code /Q
(e.g. /C01/SET)

NO. OF CHANNELS

8: 8

ISOLATION

N: Non-isolated between inputs

[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-8406)

CAUTION

■ UNUSED INPUT CHANNELS

Set the unused channels to “Unused” with PC Configurator software: R3CON. Unused channels left open may be 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: Separable tension clamp terminal (applicable wire size: 0.2 to 1.5 mm², stripped length 10 mm)

Internal power: Via the Installation Base (model: R3-BSx)

Isolation: Input 1 or input 2 or input 3 or input 4 or input 5 or input 6 or input 7 or input 8 to internal bus or internal power

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:** 4 - 20 mA DC
Input resistance: 250 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: 160 / 80 / 40 / 20 msec. selectable
Data range: 0 - 10000
Data allocation: 8
Current consumption: 60 mA
Temp. coefficient: ±0.02 %/°C (±0.01 %/°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 or input 2 or input 3 or input 4 or input 5 or input 6 or input 7 or input 8 to internal bus or internal power)

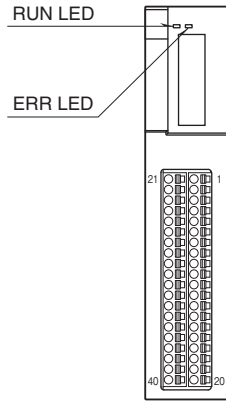
2000 V AC @ 1 minute (power input to FG; isolated on the power supply module)

Conversion accuracy

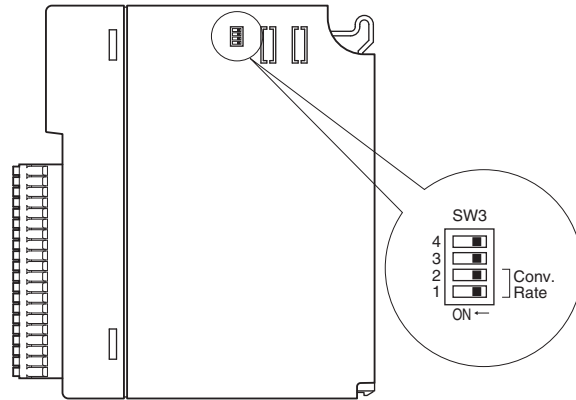
RANGE \ RATE	160 msec.	80 msec.	40 msec.	20 msec.
4 – 20mA	±0.05%	±0.1%	±0.2%	±0.4%

EXTERNAL VIEW

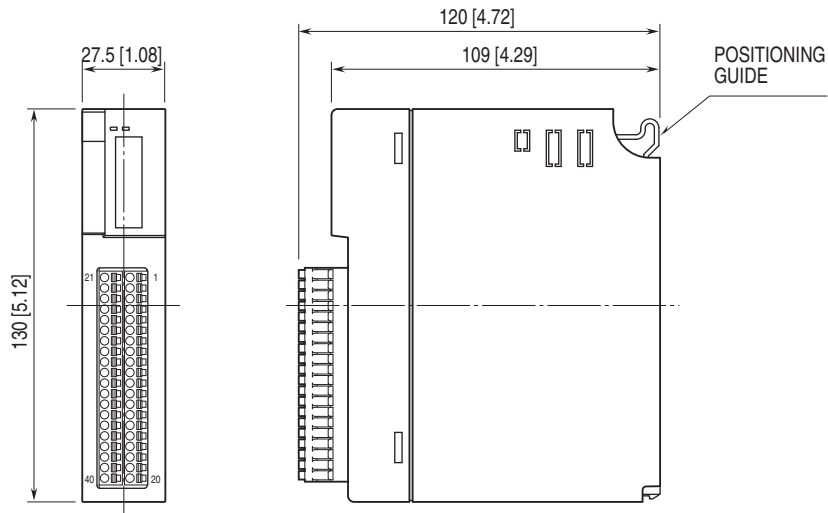
FRONT VIEW



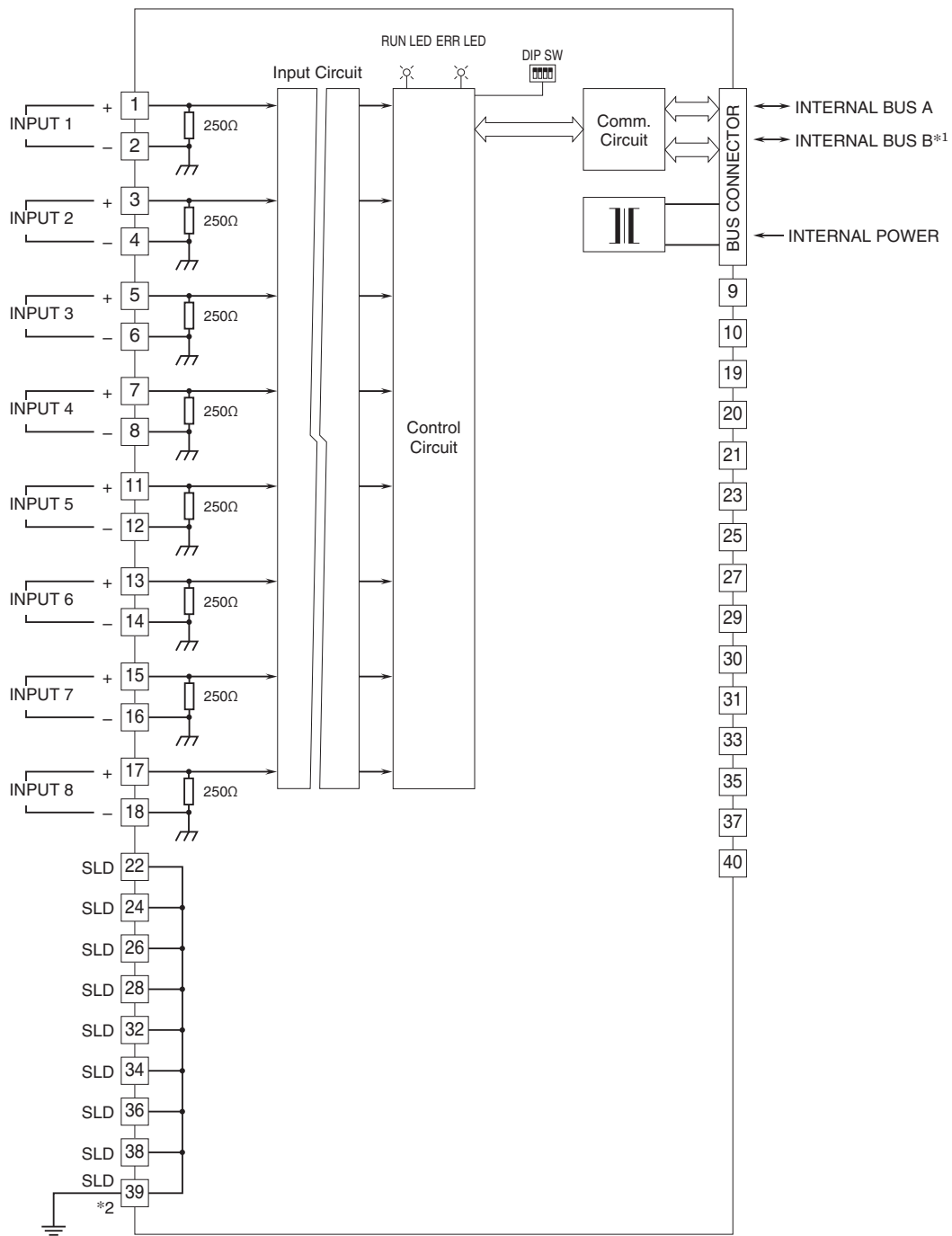
SIDE VIEW



EXTERNAL DIMENSIONS unit: mm [inch]



SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM



*1. For dual redundant communication.

*2. To use shield line, connect it to SLD terminal and ground the terminal 39.

Note: Do not use void terminals.

INPUT TERMINAL ASSIGNMENT

PIN No.	FUNCTON	PIN No.	FUNCTON
21	NC	1	I1
22	SLD	2	COM
23	NC	3	I2
24	SLD	4	COM
25	NC	5	I3
26	SLD	6	COM
27	NC	7	I4
28	SLD	8	COM
29	NC	9	NC
30	NC	10	NC
31	NC	11	I5
32	SLD	12	COM
33	NC	13	I6
34	SLD	14	COM
35	NC	15	I7
36	SLD	16	COM
37	NC	17	I8
38	SLD	18	COM
39	SLD	19	NC
40	NC	20	NC



Specifications are subject to change without notice.