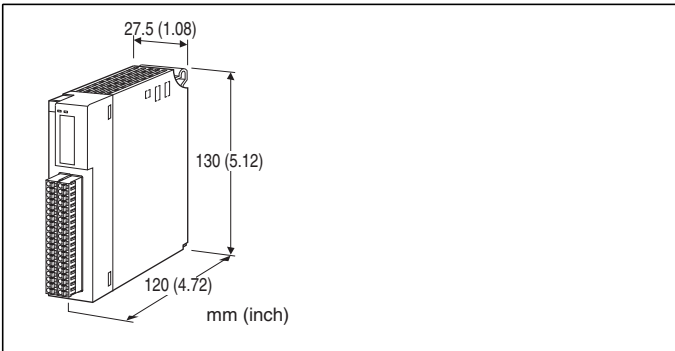


Remote I/O R3 Series

DC CURRENT INPUT MODULE

(8 points, non-isolated)



MODEL: R3S-SS8N[1][2]

ORDERING INFORMATION

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

EX-FACTORY SETTING

/SET: Preset according to the Ordering Information Sheet (No. ESU-8406)

CAUTION

■ UNUSED INPUT CHANNELS

Unused channels can be specified and set so on the PC Configurator Software (model: R3CON).

GENERAL SPECIFICATIONS

Connection

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

Input: Separable tension clamp terminal

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

Applicable wire size: 0.2 to 1.25 mm², stripped length 10 mm

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 the 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

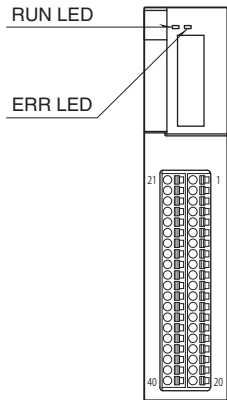
- Conversion accuracy:** Refer to the table at the end of this section.
- Conversion rate:** 160 / 80 / 40 / 20 msec. selectable
- Data range:** 0 - 10000
- Data allocation:** 8
- Current consumption:** 60 mA
- Temp. coefficient:** ±0.02 %/°C (±0.01 %/°F)
- Response time:** ≤ 0.2 sec. (0 - 90 %)
- Insulation 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%

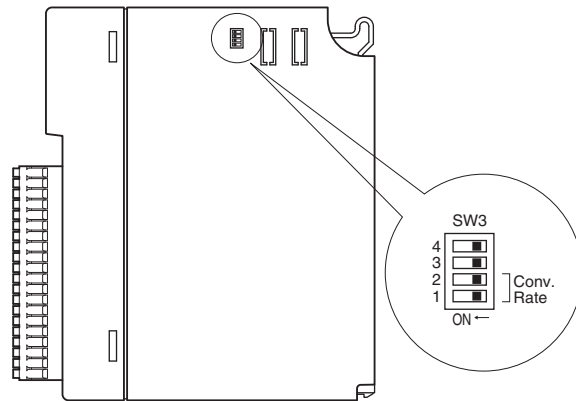


EXTERNAL VIEW

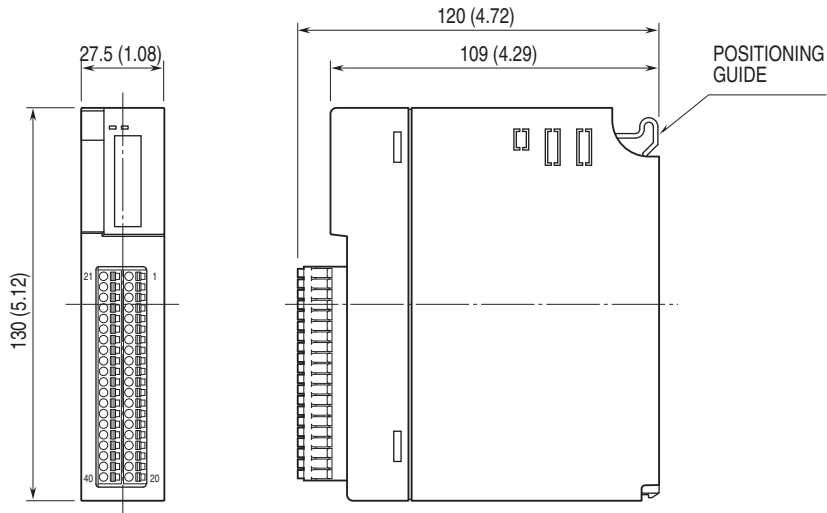
■ FRONT VIEW



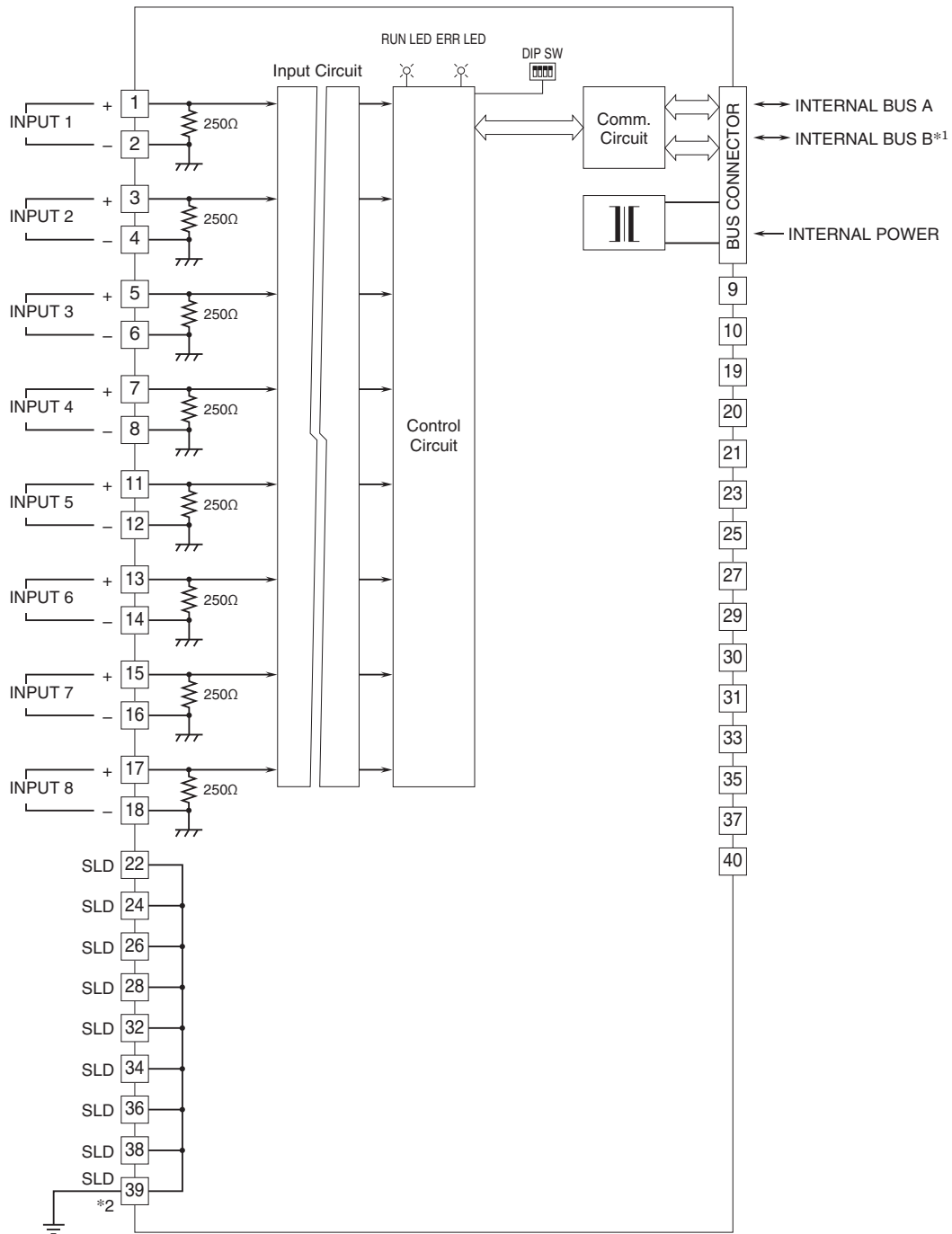
■ SIDE VIEW



EXTERNAL DIMENSIONS & TERMINAL ASSIGNMENTS 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 CONNECTOR

PIN No.	FUNCTION	PIN No.	FUNCTION
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.

