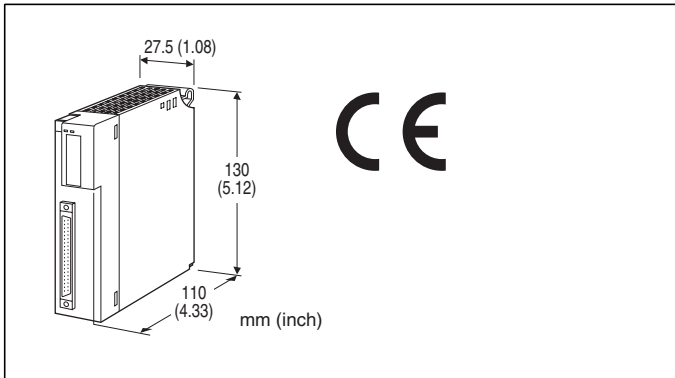


## Remote I/O R3 Series

### DC CURRENT INPUT MODULE

(8 points, isolated)



### MODEL: R3Y-SS8[1][2]

#### ORDERING INFORMATION

- Code number: R3Y-SS8[1][2]  
Specify a code from below for each [1] and [2].  
(e.g. R3Y-SS8W/CE/Q)
- Specify the specification for option code /Q  
(e.g. /SET)

#### NO. OF CHANNELS

8: 8

#### [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

##### EX-FACTORY SETTING

/SET: Preset according to the Ordering Information Sheet  
(No. ESU-8394)

#### 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:** 40-pin connector (Fujitsu FCN-365P040-AU)

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

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

**Input range:** Selectable with the side DIP SW (per 4 channels)

**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:** -20 - +20 mA, 0 - 20 mA, 4 - 20 mA DC

**Input resistance:** 66.5 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 of the input range

**Data allocation:** 8

**Current consumption:** 100 mA

**Temp. coefficient:** ±0.03 %/°C (±0.02 %/°F)

**Insulation resistance:** ≥ 100 MΩ with 500 V DC

**Dielectric strength:** 500 V AC @ 1 minute (input 1 to input 2 to input 3 to input 4 to input 5 to input 6 to input 7 to input 8 to internal bus or internal power)

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



RANGE \ RATE	160 msec.	80 msec.	40 msec.	20 msec.
-20 – +20 mA	±0.05%	±0.1%	±0.2%	±0.4%
0 – 20 mA	±0.1%	±0.2%	±0.4%	±0.8%
4 – 20 mA	±0.1%	±0.2%	±0.4%	±0.8%

## STANDARDS & APPROVALS

CE conformity:

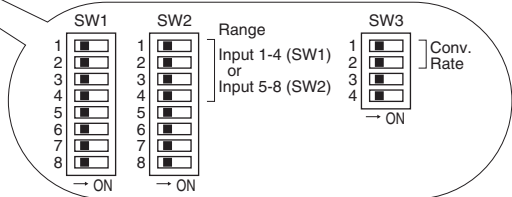
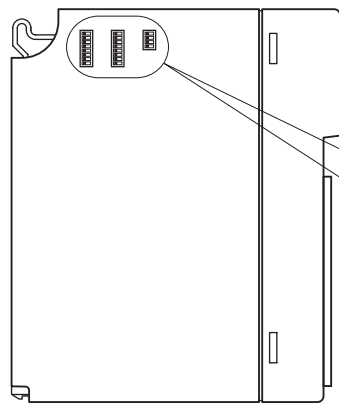
EMC Directive (2004/108/EC)

EMI EN 61000-6-4: 2007/A1: 2011

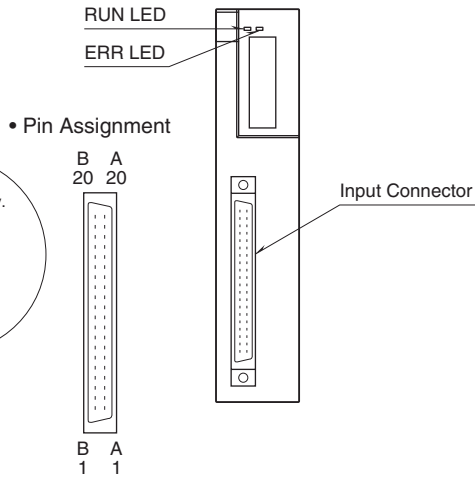
EMS EN 61000-6-2: 2005

## EXTERNAL VIEW

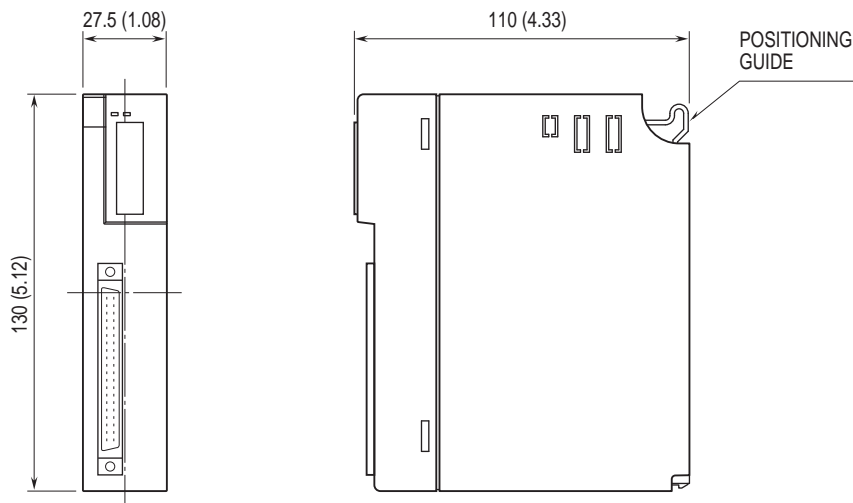
■ SIDE VIEW



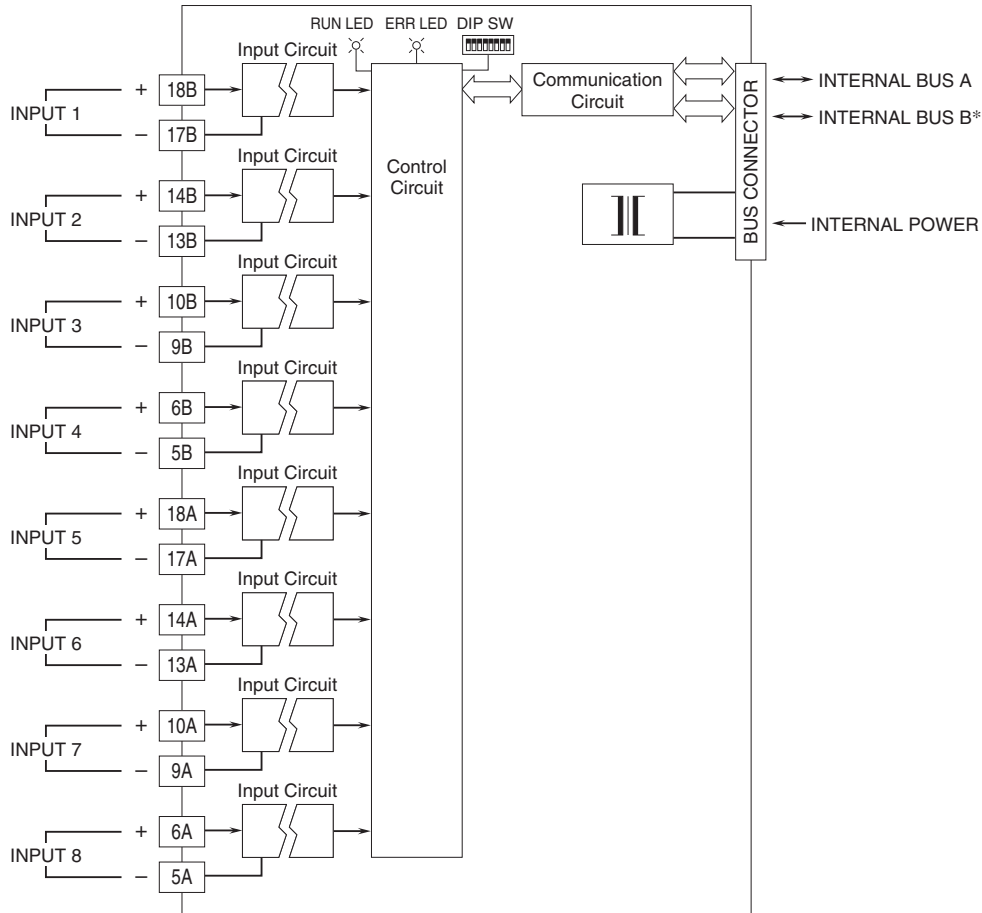
■ FRONT VIEW



## DIMENSIONS unit: mm (inch)



## SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM



\*For dual redundant communication.

## INPUT CONNECTOR (40-pin)

PIN NO.	ASSIGNMENT	PIN NO.	ASSIGNMENT
1A	NC	1B	NC
2A	NC	2B	NC
3A	NC	3B	NC
4A	NC	4B	NC
5A	- IN8	5B	- IN4
6A	+ IN8	6B	+ IN4
7A	NC	7B	NC
8A	NC	8B	NC
9A	- IN7	9B	- IN3
10A	+ IN7	10B	+ IN3
11A	NC	11B	NC
12A	NC	12B	NC
13A	- IN6	13B	- IN2
14A	+ IN6	14B	+ IN2
15A	NC	15B	NC
16A	NC	16B	NC
17A	- IN5	17B	- IN1
18A	+ IN5	18B	+ IN1
19A	NC	19B	NC
20A	NC	20B	NC





Specifications are subject to change without notice.

