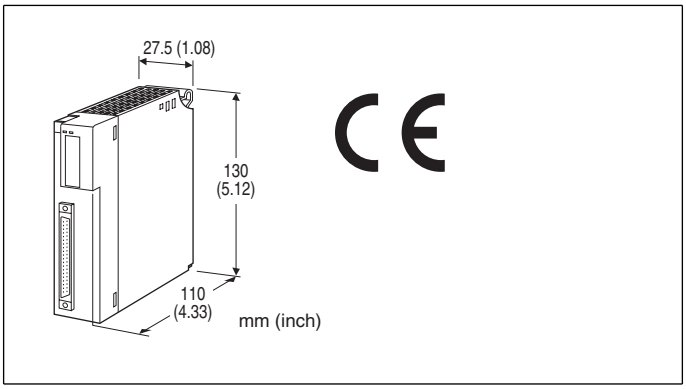
Remote I/O R3 Series

POTENTIOMETER INPUT MODULE

(8 points, isolated)



MODEL: R3Y-MS8[1][2]

ORDERING INFORMATION

• Code number: R3Y-MS8[1][2]
Specify a code from below for each [1], [2]
(e.g. R3Y-MS8W/CE)

INPUT

Total resistance 500 Ω - 100 kΩ

NO. OF CHANNELS

8: 8

[1] COMMUNICATION MODE

S: Single
W: Dual

[2] OPTIONS

STANDARDS & APPROVALS
blank: Without CE
/CE: CE marking

GENERAL SPECIFICATIONS

Connection
Internal bus: Via the Installation Base (model: R3-BSx)
Input: 40-pin connector (Fujitsu FCN-365P040-AU)
Power supply: 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 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 abnormality;
Green in normal operating conditions.

INPUT SPECIFICATIONS

Minimum span: 50 % of the total resistance range
Excitation: Approx. 0.5 V DC

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 lbs)

PERFORMANCE

Conversion accuracy: Refer to the table at the end of this section.
The resolution, conversion accuracy and temperature coefficient are defined against the potentiometer's total resistance. If the actual resistance range (between the zero and span positions) is narrower than the total resistance, the values change in proportion. Using at least 50 % of the total resistance is basically recommended.
Conversion rate: 160 / 80 / 40 / 20 msec. selectable
Data range: 0 – 10000
Data allocation: 8
Current consumption: Approx. 100 mA
Temp. coefficient: ±0.015 % /°C
The resolution, conversion accuracy and temperature coefficient are defined against the potentiometer's total resistance. If the actual resistance range (between the zero and span positions) is narrower than the total resistance, the values change in proportion. Using at least 50 % of the total resistance is basically recommended.
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 power)
2000 V AC @ 1 minute (power input to FG; isolated on the power supply module)

Conversion accuracy

	CONVERSION RATE			
	160 msec.	80 msec.	40 msec.	20 msec.
Resolution	1/10000	1/5000	1/2500	1/1250
Accuracy	±0.05%	±0.1%	±0.2%	±0.4%

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STANDARDS & APPROVALS

CE conformity:

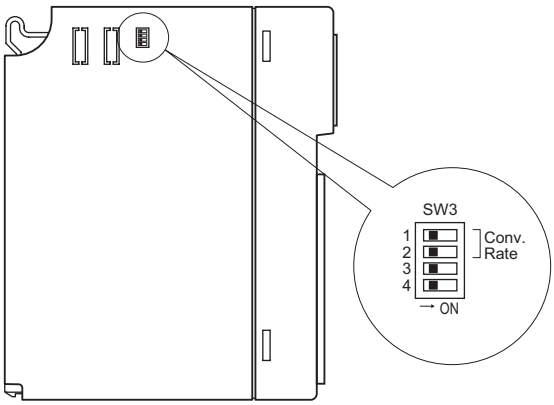
EMC Directive (2004/108/EC)

EMI EN 61000-6-4: 2007

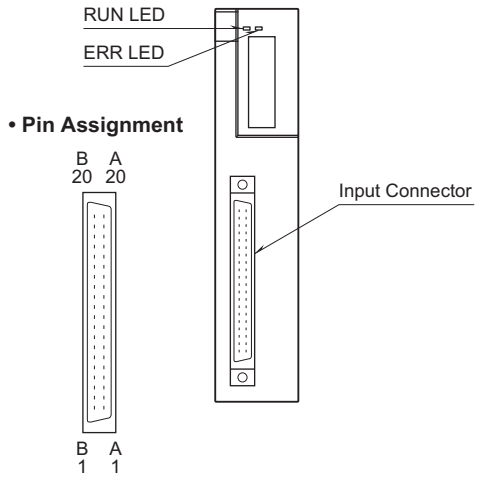
EMS EN 61000-6-2: 2005

EXTERNAL VIEW

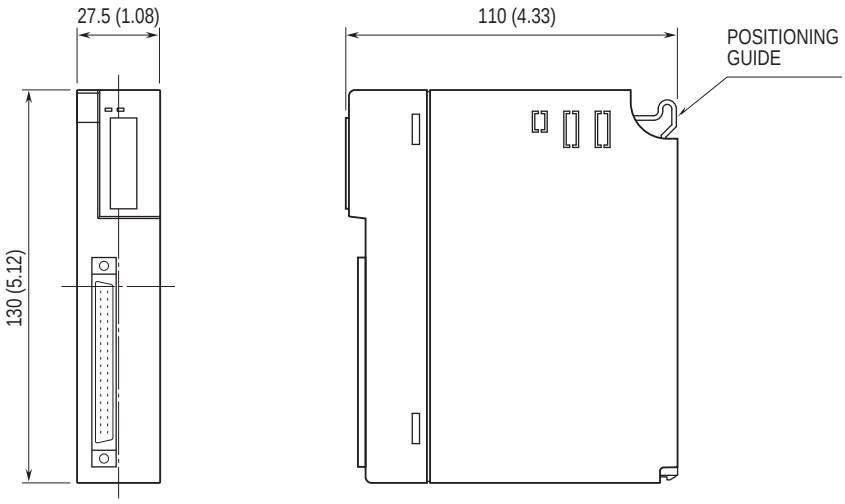
■SIDE VIEW



■FRONT VIEW



DIMENSIONS unit: mm (inch)



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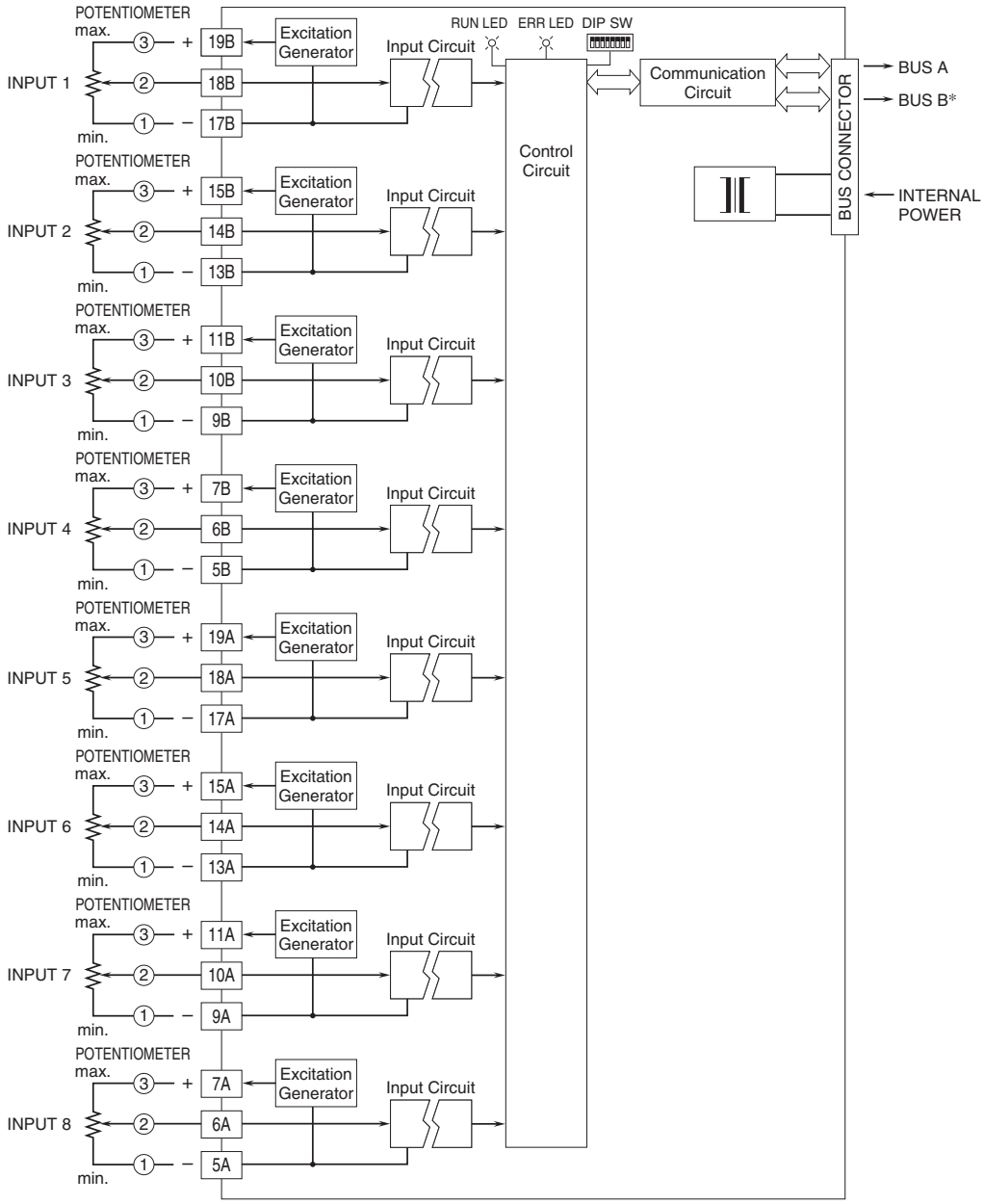
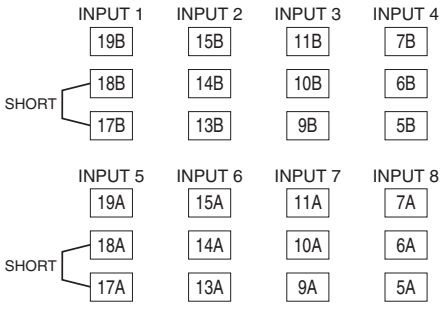
SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM



*For dual redundant communication.

• Unused Input Channels

Close across the unused input terminals as shown below.



The input will become unstable if unused channels are left open.
Unused channels can be specified and set so on the PC Configurator Software (model: R3CON) without needing to short at the field terminals.

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	IN8C	5B	IN4C
6A	IN8B	6B	IN4B
7A	IN8A	7B	IN4A
8A	NC	8B	NC
9A	IN7C	9B	IN3C
10A	IN7B	10B	IN3B
11A	IN7A	11B	IN3A
12A	NC	12B	NC
13A	IN6C	13B	IN2C
14A	IN6B	14B	IN2B
15A	IN6A	15B	IN2A
16A	NC	16B	NC
17A	IN5C	17B	IN1C
18A	IN5B	18B	IN1B
19A	IN5A	19B	IN1A
20A	NC	20B	NC

⚠ Specifications are subject to change without notice.

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