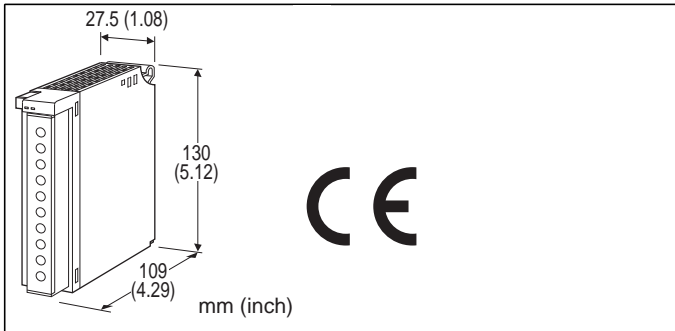


Remote I/O R3 Series

(No. ESU-8392)

CT INPUT MODULE

(RMS sensing)



MODEL: R3-CT4[1][2]

ORDERING INFORMATION

- Code number: R3-CT4[1][2]
- Specify a code from below for each [1] and [2].
(e.g. R3-CT4W/H/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)

Frequency

blank: 45 - 65 Hz
/H: 200 Hz - 1.2 kHz

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

GENERAL SPECIFICATIONS

Connection

- Internal bus:** Via the Installation Base (model: R3-BSx)
- Input:** M3.5 screw terminals (torque 0.8 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 the input abnormality;
Green in normal operating conditions.
- Low-end cutout:** Converted as 0 % for the input below 2 %

INPUT SPECIFICATIONS

- Input:** 0 - 5 A AC, 0 - 1 A AC
- Frequency:** 45 - 65 Hz
(200 Hz - 1.2 kHz with Option /H)
- Input burden:** ≤ 0.5 VA (input 0 - 5 A)
≤ 0.1 VA (input 0 - 1 A)
- Overload capacity:** 200 % for 1 minute, 120 % continuous
- Operational range:** 5 - 115 % of rating

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:** ±0.015 %/°C (±0.008 %/°F)
- Input response time:** ≤ 0.5 sec. (0 - 90 %)
- Insulation resistance:** ≥ 100 MΩ 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)

Conversion accuracy

RANGE	RATE			
	80 msec.	40 msec.	20 msec.	10 msec.
0 – 5 A AC	±0.5%	±0.5%	±1.0%	±2.0%
0 – 1 A AC	±0.5%	±0.5%	±1.0%	±2.0%

STANDARDS & APPROVALS

CE conformity:

EMC Directive (2004/108/EC)

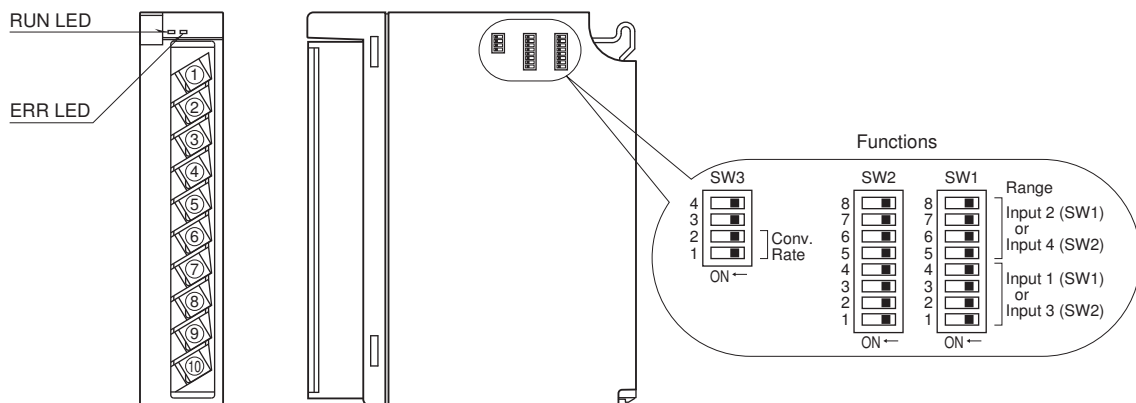
EMI EN 61000-6-4: 2007/A1: 2011

EMS EN 61000-6-2: 2005

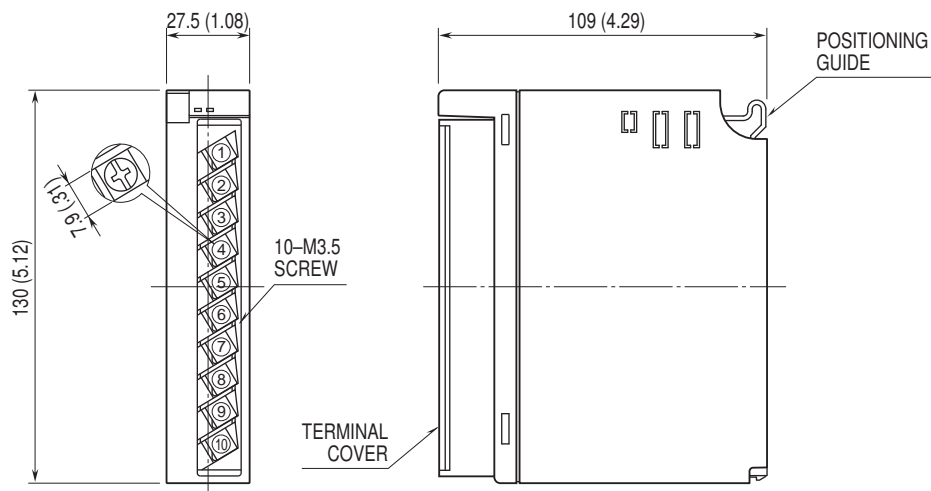
EXTERNAL VIEW

FRONT VIEW

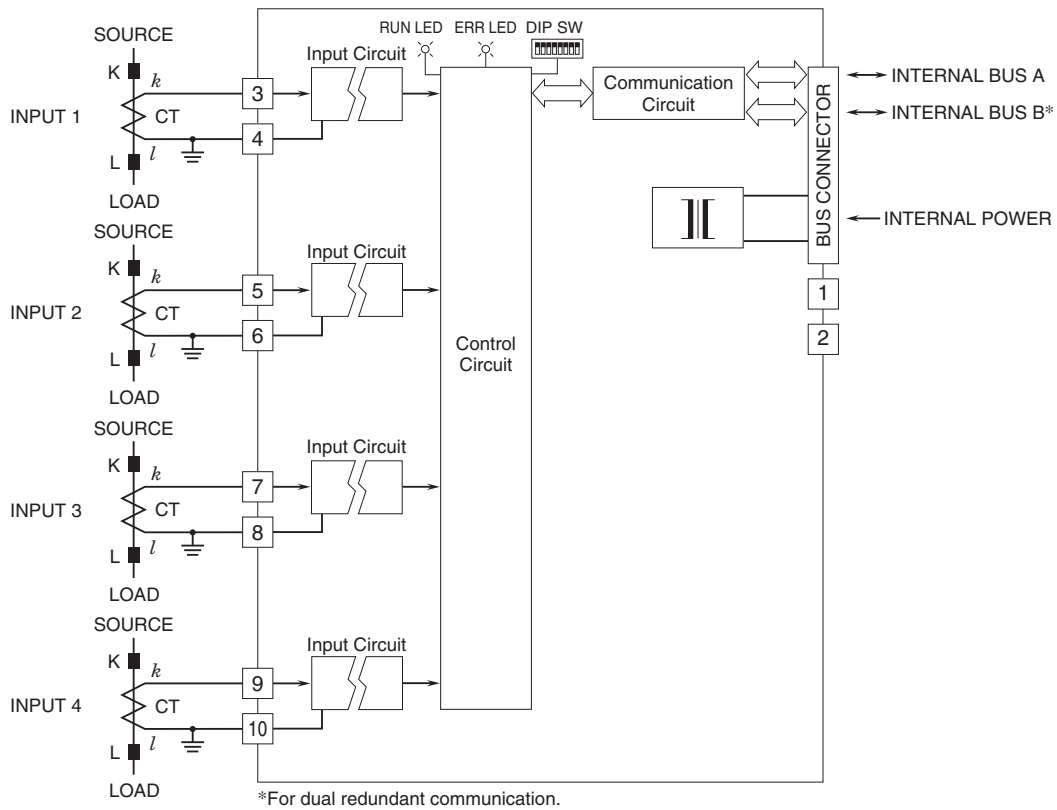
SIDE VIEW



EXTERNAL DIMENSIONS & TERMINAL ASSIGNMENTS unit: mm (inch)



SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM



Specifications are subject to change without notice.

