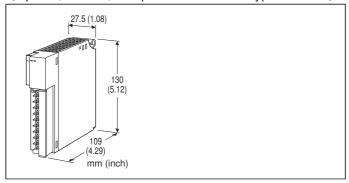
Remote I/O R3 Series

AC CURRENT INPUT MODULE

(4 points, isolated, clamp-on current sensor type CLSA use)



MODEL: R3-CT4A[1][2]

ORDERING INFORMATION

Code number: R3-CT4A[1][2]

Specify a code from below for each of [1] and [2].

(e.g. R3-CT4AW/H/Q)

• Specify the specification for option code /Q

(e.g. /C01/SET)

NO. OF CHANNELS

4A: 4 channels, Sensor type CLSA

[1] COMMUNICATION MODE

S: Single W: Dual

[2] OPTIONS (multiple selections)

Frequency

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

(No. ESU-8443)

RELATED PRODUCTS

• PC configurator software (model: R3CON)

• Zero/span adjustments for the conversion data are available using the R3CON. Downloable at M-System's web site.

Clamp-on current sensor (model: CLSA-08)
Clamp-on current sensor (model: CLSA-12)

•Clamp-on current sensor (model: CLSA-30)

•Clamp-on current sensor (model: CLSA-50)

Special cable (model: CLSA-08C)

The clamp-on current sensor, not included in the product

package, must be ordered separately.

Refer to the data sheet for the sensor for more information

such as applicable wire diameter.

GENERAL SPECIFICATIONS

Connection

Internal bus: Via the Installation Base (model: R3-BSx) Input: M3 separable screw terminal (torque 0.5 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 input abnormality;

Green in normal operating conditions.

Low-end cutout: Converted as 0 % for the input below 1 %

of range

Note: Change the value of "Zero Base" and "Full Base" with PC configurator software (model: R3CON) to disable low-end

cutout.

INPUT SPECIFICATIONS

Frequency: 45 - 65 Hz

(200 Hz - 1.2 kHz with Option /H)

Operational range: 5 - 115 % of rating

Max. working voltage: 440 V AC (primary side)

Sensor & range: CLSA-08: 0 - 80A AC CLSA-12: 0 - 120A AC CLSA-30: 0 - 300A AC CLSA-50: 0 - 500A AC



INSTALLATION

Operating temperature: -10 to +55 $^{\circ}$ C (14 to 131 $^{\circ}$ 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: Engineering unit value \times 100 (integer)

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 M Ω 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

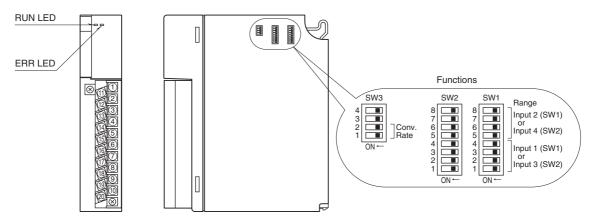
Rate	80 msec.	40 msec.	20 msec.	10 msec.
Accuracy	±0.5%	$\pm 0.5\%$	±1.0%	$\pm 2.0\%$

Except the accuracy of the sensor.

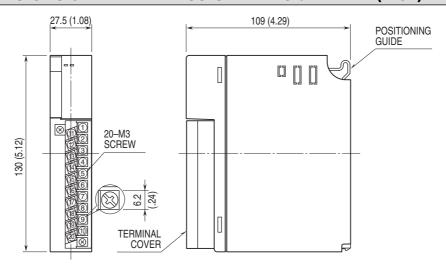
EXTERNAL VIEW

■ FRONT VIEW

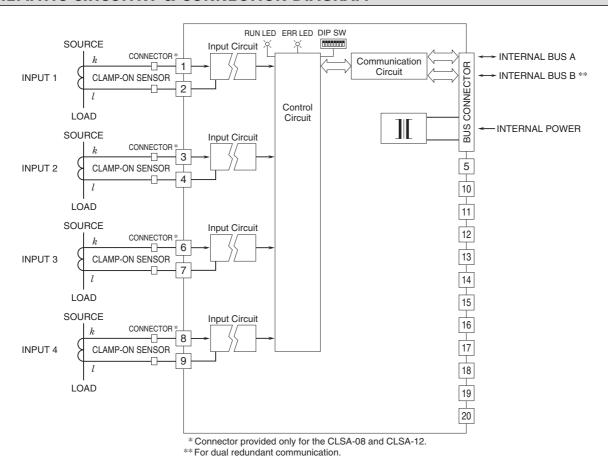
■ SIDE VIEW



EXTERNAL DIMENSIONS & TERMINAL ASSIGNMENTS unit: mm (inch)



SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM



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Specifications are subject to change without notice.