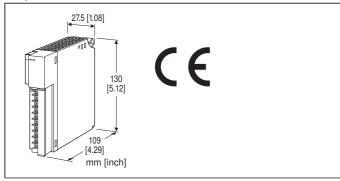
#### Remote I/O R3 Series

#### DC MILLIVOLT INPUT MODULE

(4 points, isolated)



### MODEL: R3-SV4A[1][2]

#### **ORDERING INFORMATION**

Code number: R3-SV4A[1][2]

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

(e.g. R3-SV4AW/CE/Q)

 Specify the specification for option code /Q (e.g. /C01/SET)

#### **NO. OF CHANNELS**

4A: 4 points (mV)

### [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 (multiple selections)**

COATING (For the detail, refer to our web site.)

/C01: Silicone coating /C02: Polyurethane coating /C03: Rubber coating EX-FACTORY SETTING

/SET: Preset according to the Ordering Information Sheet

(No. ESU-8410)

#### **CAUTION**

#### **■UNUSED INPUT CHANNELS**

Set the unused channels to open. Otherwise, set them as "Unused" with PC Configurator software: R3CON.

### **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 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 circuit abnormality (AD converter response

failure);

Green in normal operating conditions.

#### INPUT SPECIFICATIONS

Input: -100 - +100 mV, -60 - +60 mV, -50 - +50 mV, 0 -

100 mV, 0 - 60 mV, 0 - 50 mV DC Input resistance:  $100 \text{ k}\Omega$  min.

#### 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
(±0.03 %/°C with 0 - 50 mV range)

Insulation resistance:  $\geq$  100 M $\Omega$  with 500 V DC

Dielectric strength:  $1500 \text{ V AC} \ @ \ 1 \ \text{minute}$  (input 1 to input 2 to input 3 to input 4 to internal bus or internal power) 2000 V AC  $\ @ \ 1 \ \text{minute}$  (power input to FG; isolated on the

power supply module)

#### Conversion accuracy

RANGE RATE	80 msec.	40 msec.	20 msec.	10 msec.
-100 - +100mV	$\pm 0.05\%$	$\pm 0.1\%$	$\pm 0.2\%$	$\pm 0.4\%$
-60 - +60mV	$\pm 0.05\%$	±0.1%	±0.2%	$\pm 0.4\%$
-50 - +50mV	$\pm 0.05\%$	±0.1%	±0.2%	$\pm 0.4\%$
$0-100 \mathrm{mV}$	$\pm 0.05\%$	±0.1%	±0.2%	$\pm 0.4\%$
$0-60 \mathrm{mV}$	±0.1%	$\pm 0.2\%$	±0.4%	±0.8%
0 - 50 mV	+0.1%	±0.2%	+0.4%	+0.8%

### **STANDARDS & APPROVALS**

EU conformity:

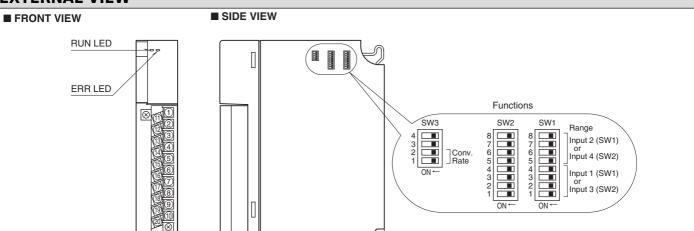
**EMC Directive** 

EMI EN 61000-6-4

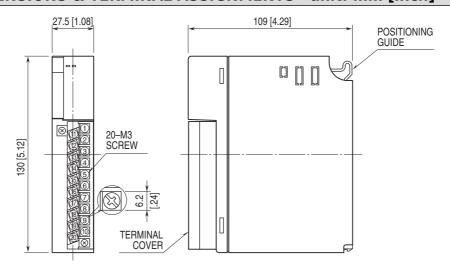
EMS EN 61000-6-2

**RoHS Directive** 

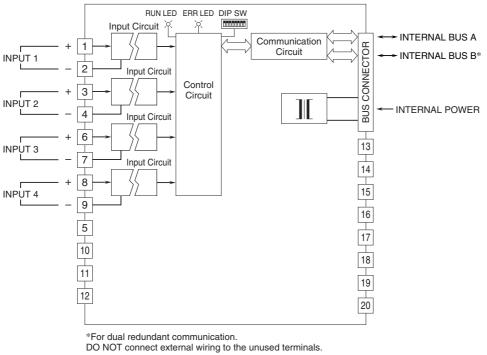
### **EXTERNAL VIEW**



# **EXTERNAL DIMENSIONS & TERMINAL ASSIGNMENTS** unit: mm [inch]



### **SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM**



Specifications are subject to change without notice.