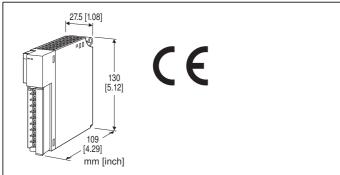
# **Remote I/O R3 Series**

# DC VOLTAGE INPUT MODULE

(4 points, isolated)



# MODEL: R3-SV4[1][2]

#### **ORDERING INFORMATION**

- Code number: R3-SV4[1][2]
- Specify a code from below for each of [1] and [2].(e.g. R3-SV4W/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)

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-8366)

#### CAUTION

#### UNUSED INPUT CHANNELS

Set the unused channels to the ranges otherthan 1 – 5 V. Otherwise, set them as "Unused" with PC Configurator software: R3CON. Unused channels left open with 1 – 5 V 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**: 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 circuit abnormality (AD converter response failure); Green in normal operating conditions.

# INPUT SPECIFICATIONS

 Narrow Span: -1 - +1 V, 0 - 1 V DC
Input resistance: 100 kΩ min.
Wide Span: -10 - +10 V, -5 - +5 V, 0 - 10 V, 0 - 5 V, 1 - 5 V DC
Input resistance: 1 MΩ 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**:  $\pm 0.015 \% /^{\circ}C (\pm 0.008 \% /^{\circ}F)$ ( $\pm 0.03 \% /^{\circ}C [\pm 0.02 \% /^{\circ}F]$  with 0 - 5 V or 1 - 5 V range) **Insulation resistance**:  $\geq 100 M\Omega$  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.
-10 – +10 V	±0.05%	±0.1%	±0.2%	±0.4%
-5 – +5 V	±0.05%	±0.1%	±0.2%	±0.4%
-1 – +1 V	±0.05%	±0.1%	±0.2%	±0.4%
$0 - 10 \mathrm{V}$	±0.05%	±0.1%	±0.2%	±0.4%
$0-5 \mathrm{V}$	±0.1%	±0.2%	±0.4%	±0.8%
$1-5 \mathrm{V}$	±0.1%	±0.2%	±0.4%	±0.8%
$0-1\mathrm{V}$	±0.05%	±0.1%	±0.2%	±0.4%

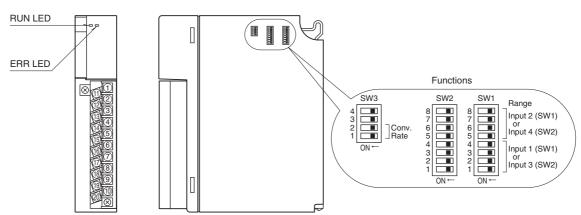
## **STANDARDS & APPROVALS**

EU conformity: EMC Directive EMI EN 61000-6-4 EMS EN 61000-6-2 RoHS Directive

## **EXTERNAL VIEW**

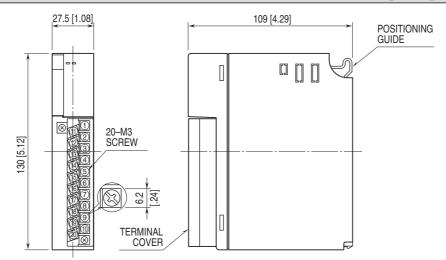
FRONT VIEW

SIDE VIEW

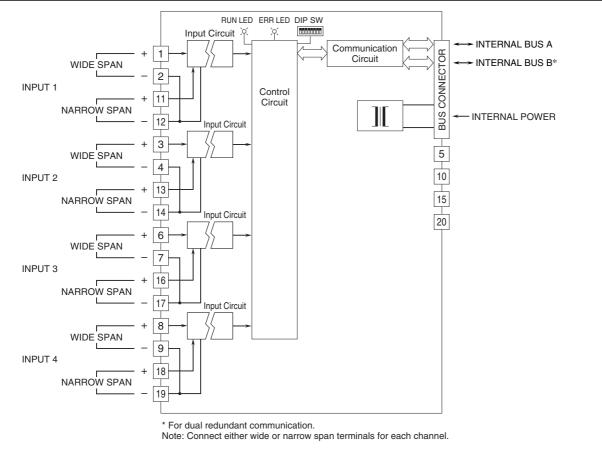


# MODEL: R3-SV4

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



## SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM



Specifications are subject to change without notice.