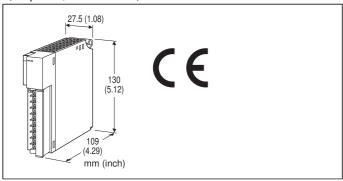
MODEL: R3-SV16N

### Remote I/O R3 Series

### DC VOLTAGE INPUT MODULE

(16 points, non-isolated)



MODEL: R3-SV16N[1][2]

# **ORDERING INFORMATION**

• Code number: R3-SV16N[1][2] Specify a code from below for each [1] and [2].

(e.g. R3-SV16NW/CE/Q)

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

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

**16**: 16

#### **ISOLATION**

N: Non-isolated between inputs

#### [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**

COATING (For the detail, refer to M-System's web site.)

/C01: Silicone coating /C02: Polyurethane coating /C03: Rubber coating

# **CAUTION**

#### ■ UNUSED INPUT CHANNELS

Set the unused channels to -10 - +10 V range. Otherwise, set them as "Unused" with PC Configurator software: R3CON. Unused channels left open with other settings may be 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 to internal bus or internal power **Input range**: Selectable with the side DIP SW (per 8

channels)

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 circuit abnormality (AD converter response failure);

Green in normal operating conditions.

#### INPUT SPECIFICATIONS

Input: -10 - +10 V, -5 - +5 V, 0 - 10 V, 0 - 5 V, 1 - 5 V DC

**Input resistance**: 1 M $\Omega$  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: 100 / 50 / 20 / 10 msec. selectable

Data range: 0 - 10000 of the input range

Data allocation: 16

Current consumption: 100 mA

**Temp. coefficient**: ±0.015 % /°C (±0.008 %/°F)

 $(\pm 0.03 \% /^{\circ}C [\pm 0.02 \%/^{\circ}F] \text{ with } 0 - 5 \text{ V or } 1 - 5 \text{ V range})$ 

Insulation resistance:  $\geq 100 \text{ M}\Omega$  with 500 V DC Dielectric strength: 1500 V AC @ 1 minute (input to internal bus or internal power)



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TEL: (02)2598-1199 E-mail: info@xintop.com

FAX: (02)2596-2331 Website: www.xintop.com

MODEL: R3-SV16N

2000 V AC @ 1 minute (power input to FG; isolated on the power supply module)

#### **Conversion accuracy**

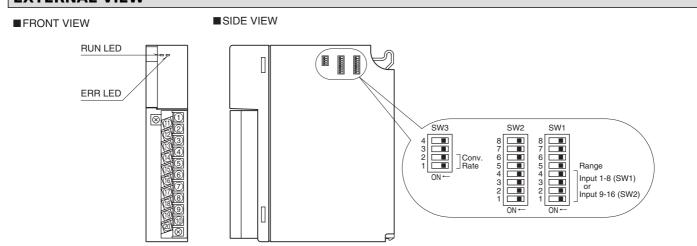
RANGE RATE	100 msec.	50 msec.	20 msec.	10 msec.
-10 - +10V	±0.1%	±0.1%	±0.1%	±0.1%
-5 - +5V	±0.1%	±0.1%	±0.1%	±0.1%
0 – 10V	±0.1%	±0.1%	±0.1%	±0.1%
0 – 5V	±0.2%	±0.2%	±0.2%	±0.2%
1 – 5V	±0.2%	±0.2%	±0.2%	±0.2%

# **STANDARDS & APPROVALS**

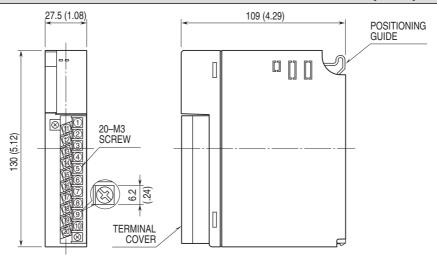
CE conformity:

EMC Directive (2004/108/EC) EMI EN 61000-6-4: 2007/A1: 2011 EMS EN 61000-6-2: 2005

# **EXTERNAL VIEW**



# **EXTERNAL DIMENSIONS & TERMINAL ASSIGNMENTS unit: mm (inch)**

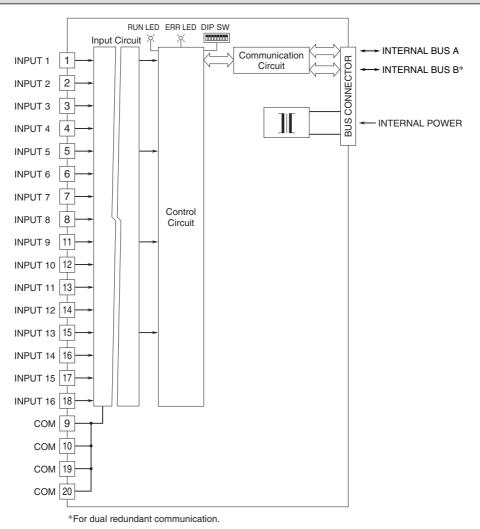




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MODEL: R3-SV16N

# **SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM**



Specifications are subject to change without notice.

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