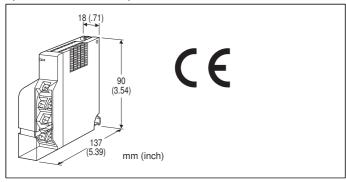
### Remote I/O R5 Series

## DC VOLTAGE OUTPUT MODULE

(screw terminal block)



MODEL: R5T-YV[1][2][3]

## **ORDERING INFORMATION**

• Code number: R5T-YV[1][2][3]

Specify a code from below for each [1] through [3].

(e.g. R5T-YV2W/Q)

 Specify the specification for option code /Q (e.g. /C01/S01)

# [1] NO. OF CHANNELS

**1**: 1

**2**: 2

## [2] COMMUNICATION MODE

**S**: Single **W**: Dual

### **[3] OPTIONS**

blank: none

/Q: With options (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

**TERMINAL SCREW MATERIAL** 

/S01: Stainless steel

### **GENERAL SPECIFICATIONS**

Connection

Internal bus: Via the Installation Base

(model: R5-BSx)

**Output**: M3.5 screw terminal block (torque 0.8 N·m)

Screw terminal: Nickel-plated steel (standard) or stainless

**Power supply**: Via the base (model: R5-BSx)

steel

Isolation: Output 1 to output 2 to internal power Output 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.

## **OUTPUT SPECIFICATIONS**

■ Narrow Span: -1 - +1 V, 0 - 1 V DC

**Load resistance**:  $10 \text{ k}\Omega \text{ min.}$ 

■ Wide Span: -10 - +10 V, -5 - +5 V, 0 - 10 V, 0 - 5 V, 1 - 5

V DC

**Load resistance**:  $10 \text{ k}\Omega \text{ min.}$ 

Output Range

Except -10 to +10 V DC: -15 to +115 % of output range

-10 to +10 V DC: Approx. -11.5 to +11.5 V DC

## **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: R5-BSx)

Weight: 110 g (0.24 lb)

#### **PERFORMANCE**

Output range v.s. conversion accuracy

(Narrow span)  $-1 - +1 \text{ V DC} : \pm 0.1 (\%)$ 

0 - 1 V DC : ±0.1

(Wide span) -10 - +10 V DC:  $\pm 0.05$ 

-5 - +5 V DC : ±0.05 0 - 10 V DC : ±0.05 0 - 5 V DC : ±0.05 1 - 5 V DC : ±0.05

Data range: 0 - 10000 of the output range

Data allocation: 1 (2 for 2-channel type)

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

Response time:  $\leq 0.2$  sec. (0 - 90 %)

Insulation resistance:  $\geq 100 \text{ M}\Omega$  with 500 V DC Dielectric strength: 1500 V AC @ 1 minute (output 1 to output 2 to internal power)

TEL: (02)2598-1199 E-mail: info@xintop.com FAX: (02)2596-2331 Website: www.xintop.com

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

power supply module)

**MODEL: R5T-YV** 

## **STANDARDS & APPROVALS**

CE conformity:

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

## **FUNCTIONS**

#### Output hold function:

In normal conditions, the module outputs the signal from the preferred bus A.

When an error is detected, the output is switched to the data from the bus B.

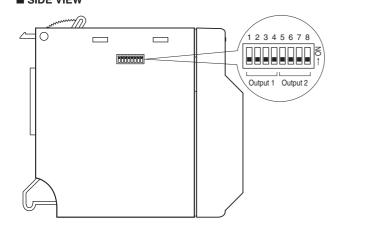
If both are in error, the module holds the signal and stands by until one of the communications recovers.

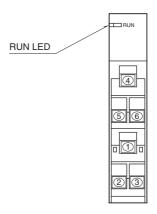
At the startup, it outputs -15 % (or approx. -11.5 V) of the selected range until the communication is established and normal data is received.

## **EXTERNAL VIEW**

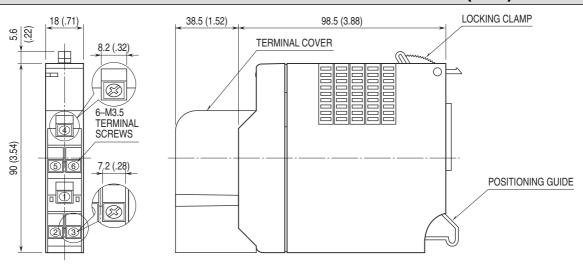
# ■ SIDE VIEW

### ■ FRONT VIEW





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



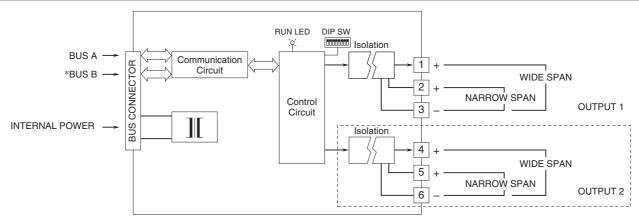


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MODEL: R5T-YV

## **SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM**



\*For dual redundant communication.

NOTE: Connect either wide or narrow span terminals for each channel.

The section enclosed by broken line is with 2-ch. option.



Specifications are subject to change without notice.

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