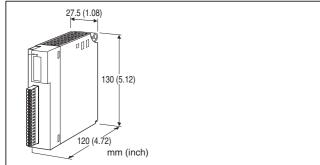
Remote I/O R3 Series

DC CURRENT OUTPUT MODULE

(4 points, isolated, tension clamp terminal block)



MODEL: R3S-YS4[1][2]

ORDERING INFORMATION

- Code number: R3S-YS4[1][2]
- Specify a code from below for each of [1] and [2]. (e.g. R3S-YS4W/H/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)

Load Resistance **blank**: $\leq 300 \Omega$ /H: $\leq 600\Omega$ 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-8370)

GENERAL SPECIFICATIONS

Connection

Internal bus: Via the Installation Base (model: R3-BSx) **Output**: Separable tension clamp terminal (applicable wire size: 0.2 to 1.5 mm², stripped length 10 mm)

Internal power: Via the Installation Base (model: R3-BSx) **Isolation**: Output 1 to output 2 to output 3 to output 4 to internal bus or internal power

Output hold function: Setting for communication error with 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 output abnormality;

Green in normal operating conditions.

OUTPUT SPECIFICATIONS

Output range: 4 – 20 mA DC Load resistance: 300 Ω max. (600 Ω max. with Option /H)

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: $\pm 0.05 \%$ Data range: 0 - 10000 of the output range Data allocation: 4 Current consumption: 180 mA (260 mA with Option /H) Temp. coefficient: $\pm 0.015 \%/^{\circ}C (\pm 0.008 \%/^{\circ}F)$ Response time: $\leq 0.2 \text{ sec.} (0 - 90 \%)$ Insulation resistance: $\geq 100 \text{ M}\Omega$ with 500 V DC Dielectric strength: 1500 V AC @ 1 minute (output 1 to output 2 to output 3 to output 4 to internal bus or internal power) 2000 V AC @ 1 minute (power input to FG; isolated on the power supply module)

FUNCTIONS

■OUTPUT HOLD or OUTPUT OFF

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.

Output Hold

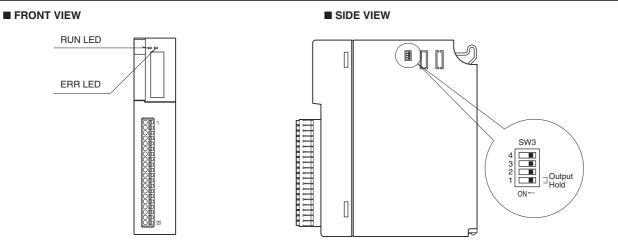
If both are in error, the module holds the signal and stands by until one of the communications recovers.

Output OFF

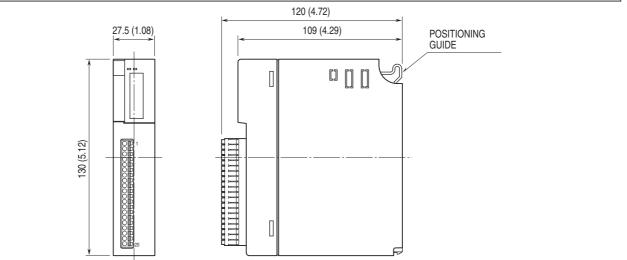
If both are in error, the module outputs -15 % and stands by until one of the communications recovers.

At the startup, it outputs -15 % until the communication is established and normal data is received.

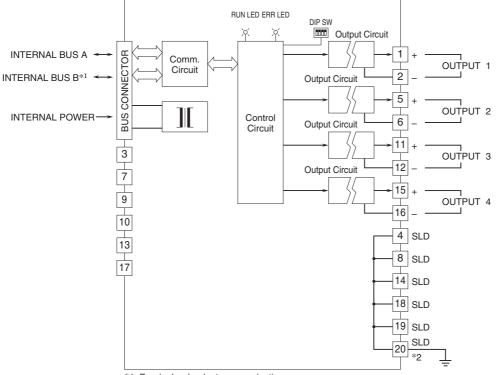
EXTERNAL VIEW



EXTERNAL DIMENSIONS unit: mm [inch]



SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM

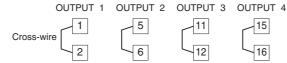


*1. For dual redundant communication.

*2. To use shield line, connect it to SLD terminal and ground the terminal 20. Note: Do not use void terminals.

Unused Output Channels

Close across the unused output terminals as shown below.



Unused channels left open are equal to the wire breakdown, which turns the red ERR LED on and sets a burnout flag at the PLC or the host device. Unused channels can be specified and set so on the PC

Configurator Software (model: R3CON) without needing to short at the field terminals.

OUTPUT TERMINAL ASSIGNMENT

PIN No.	FUNCTION
1	1
2	COM1
3	NC
4	SLD
5	12
6	COM2
7	NC
8	SLD
9	NC
10	NC
11	13
12	COM3
13	NC
14	SLD
15	14
16	COM4
17	NC
18	SLD
19	SLD
20	SLD



Specifications are subject to change without notice.