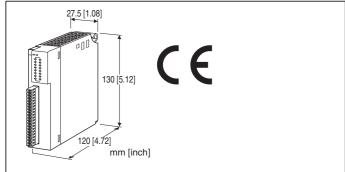
Remote I/O R3 Series

DISCRETE OUTPUT MODULE

(Do 8 points (relay), tension clamp terminal block)



MODEL: R3S-DC8[1][2]

ORDERING INFORMATION

- Code number: R3S-DC8[1][2]
- Specify a code from below for each of [1] and [2]. (e.g. R3S-DC8W/CE/Q)
- Specify the specification for option code /Q (e.g. /C01)

NO. OF CHANNELS

8: 8

[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 our web site.) /C01: Silicone coating /C02: Polyurethane coating /C03: Rubber coating

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 output 5 to output 6 to output 7 to output 8 to internal bus or internal power

Output hold setting: 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: Green LED turns on in normal operating conditions.

Output status indicator:

1 to 8: Red LED; turns on with the output ON. 9 to 16: Unused

OUTPUT SPECIFICATIONS

Output: Relay contact, 8 points Common: 1 point 1 common (8 terminals) Maximum load current: 2.0 A per point Relay driving power: 24 V DC $\pm 10 \%$, ≥ 60 mA Maximum outputs applicable at once: No limit (at 24 V DC) Contact rating: 250 V AC @ 2 A (cos $\emptyset = 1$) 30 V DC @ 2 A (resistive load) Maximum switching voltage: 250 V AC or 30 V DC Maximum switching power: 500 VA or 60 W Minimum load: 5 V DC @ 1 mA Mechanical life: 2 $\times 10^7$ cycles (300 cycle/min.) When driving an inductive load, external protection is recommended. ON delay: ≤ 10 msec.

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: 190 g (0.42 lb)

PERFORMANCE

Data allocation: 1 Current consumption: Approx. 60 mA Insulation resistance: \geq 100 M Ω with 500 V DC Dielectric strength: 1500 V AC @ 1 minute (output 1 to output 2 to output 3 to output 4 to output 5 to output 6 to output 7 to output 8 to internal bus or internal power) 2000 V AC @ 1 minute (power input to FG; isolated on the power supply module)

STANDARDS & APPROVALS

EU conformity: EMC Directive EMI EN 61000-6-4 EMS EN 61000-6-2 Low Voltage Directive EN 61010-1, EN 61010-2-201 Measurement Category II (output) Pollution Degree 2 Output to internal bus or internal power: Basic insulation (250 V) RoHS Directive

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.

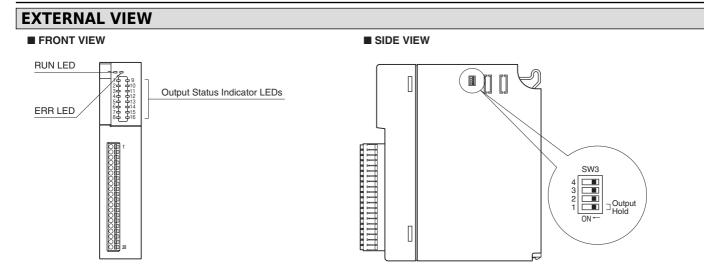
Output Hold

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

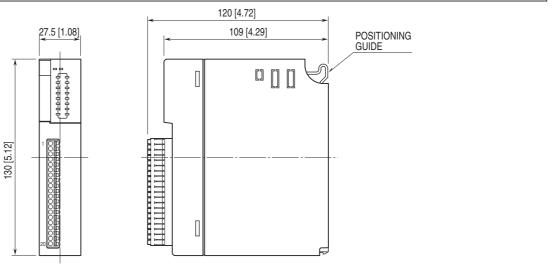
Output OFF

If both are in error, the module outputs OFF signals and stands by until one of the communications recovers. At the startup, it outputs OFF until the communication is established and normal data is received.

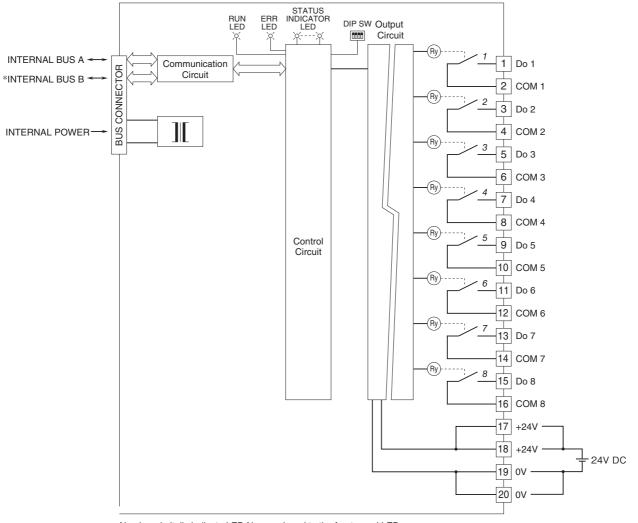
MODEL: R3S-DC8



EXTERNAL DIMENSIONS unit: mm [inch]

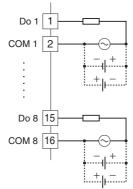


SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM



Numbers in italic indicate LED No.s assigned to the front panel LEDs. *For dual redundant communication.

Output Connection Examples 1 point 1 common



OUTPUT TERMINAL ASSIGNMENT

PIN No.	FUNCTION
1	Do1
2	COM1
3	Do2
4	COM2
5	Do3
6	COM3
7	Do4
8	COM4
9	Do5
10	COM5
11	Do6
12	COM6
13	Do7
14	COM7
15	Do8
16	COM8
17	+24V
18	+24V
19	0V
20	0V



Specifications are subject to change without notice.