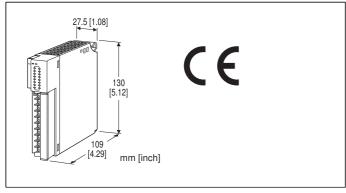
MODEL: R3-DC16

Remote I/O R3 Series

DISCRETE OUTPUT MODULE

(relay contact output, 16 points)



MODEL: R3-DC16[1][2]

ORDERING INFORMATION

Code number: R3-DC16[1][2]

Specify a code from below for each of [1] and [2].

(e.g. R3-DC16W/CE/Q)

• Specify the specification for option code /Q

(e.g. /C01)

NO. OF CHANNELS

16: 16

[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: M3 separable screw terminal (torque 0.5 N·m)

Internal power: Via the Installation Base (model: R3-BSx)

Screw terminal: Nickel-plated steel

Isolation: Output 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: Red LED; turns on with the output

ON.

OUTPUT SPECIFICATIONS

Output: Relay contact, 16 points **Common**: All 16 points (4 terminals)

Common current: Max. 4 A (total of 4 terminals)

Rated load:

250 V AC @ 0.5 A (cos \emptyset = 1) 30 V DC @ 0.5 A (resistive load)

(Less than 50 V AC to conform with EU Directive)

Maximum switching voltage: 250 V AC or 30 V DC

Maximum switching power: 250 VA or 30 W

Minimum load: 1 V DC @ 1 mA

Mechanical life: 2×10^7 cycles (300 cycles/min.)

When driving an inductive load, external contact protection

and noise quenching recommended.

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

Data allocation: 1

Current consumption: 180 mA Response time: ≤ 0.1 sec.

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

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

power supply module)

MODEL: R3-DC16

STANDARDS & APPROVALS

EU conformity:

EMC Directive

EMI EN 61000-6-4

EMS EN 61000-6-2

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.

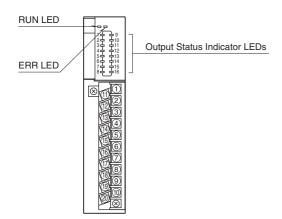
Output OFF

If both are in error, the module outputs OFF signals and stands by until one of the communications recovers.

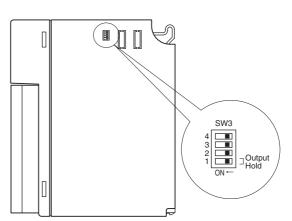
At the startup, it outputs OFF until the communication is established and normal data is received.

EXTERNAL VIEW

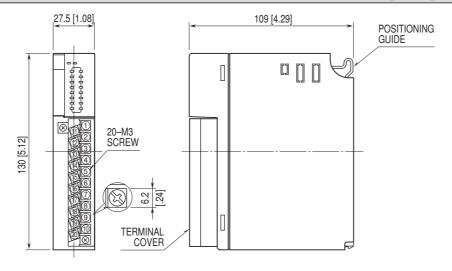
■ FRONT VIEW



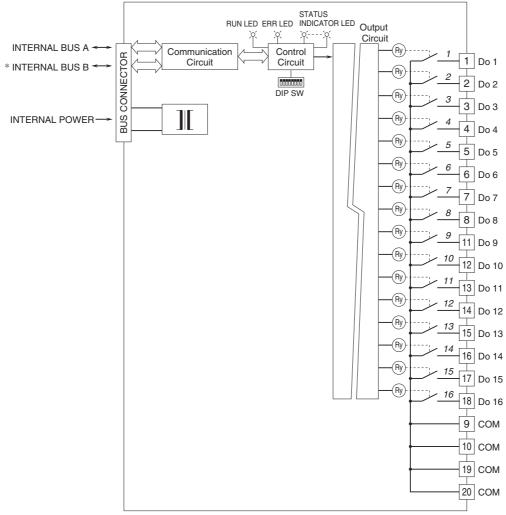
■ SIDE VIEW



EXTERNAL DIMENSIONS & TERMINAL ASSIGNMENTS unit: mm [inch]



SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM



Numbers in italic indicate LED No.s assigned to the front panel LEDs.

^{*} For dual redundant communication.

MODEL: R3-DC16

Specifications are subject to change without notice.