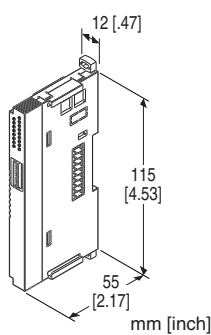


## Remote I/O R8 Series

### NPN TRANSISTOR OUTPUT MODULE, 8 points

#### Functions & Features

- 8 channels for discrete output, compact size remote I/O module
- 10 pins ZH connector (Japan Solderless Terminal MFG.Co.Ltd)



## MODEL: R8Y-DCZH8A[1]

### ORDERING INFORMATION

- Code number: R8Y-DCZH8A[1]  
Specify a code from below for [1].  
(e.g. R8Y-DCZH8A/Q)
- Specify the specification for option code /Q  
(e.g. /C01)

### [1] OPTIONS

blank: none

/Q: With options (specify the specification)

### SPECIFICATIONS OF OPTION: Q

**COATING (For the detail, refer to our web site.)**

/C01: Silicone coating

/C02: Polyurethane coating

### RELATED PRODUCTS

- ZH connector cable (model: ZHCL)  
The use of this cable is not mandatory.

### GENERAL SPECIFICATIONS

**Connection**

• **Output:** 10-pin ZH connector

**Unit side connector:** S10B-ZR (Japan Solderless Terminal MFG.Co.Ltd)

**Recommended socket:** ZHR-10 (Japan Solderless Terminal MFG.Co.Ltd)

**Recommended contact:** SZH-002T-P0.5 (Japan Solderless Terminal MFG.Co.Ltd)

**Applicable wire size:** AWG28-26

(The socket and contact are not included in the package. Refer to the specifications of the product.)

• **Excitation supply, internal bus:**

Connected to internal bus connector

• **Internal power:** Supplied from internal bus connector

**Isolation:** Output or exc. supply to internal bus or internal power

**Module address:** With DIP switch

**Output at the loss of communication:** With the side DIP SW

**Terminating resistor:** Built-in (DIP Switch, default: disable)

**Status indicator:** Bi-color (red/green) LED; Refer to the instruction manual.

### OUTPUT SPECIFICATIONS

**Common:** Negative common (NPN)

8 points per common

**Maximum outputs applicable at once:** No limit

**Number of output:** 8 points

**Rated load voltage:** 24 V DC  $\pm 10\%$

**Rated output current:** 100 mA per point, 0.8 A per common

**Residual voltage:**  $\leq 0.2$  V

**Leakage current:**  $\leq 0.05$  mA

**ON delay:**  $\leq 0.5$  msec.

**OFF delay:**  $\leq 1.5$  msec.

(When driving an inductive load, connect a diode in parallel with the load.)

### INSTALLATION

**Max. current consumption:** 100 mA

**Exc. supply current consumption:** 0.8 A

**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:** DIN rail

**Weight:** 100 g (0.22 lb)

### PERFORMANCE

**Data allocation:** 1

**Module addresses in use:** 1

**Insulation resistance:**  $\geq 100$  M $\Omega$  with 500 V DC

**Dielectric strength:** 1500 V AC @ 1 minute

(output or exc. supply to internal bus or internal power to ground)

### STANDARDS & APPROVALS

**EU conformity:**

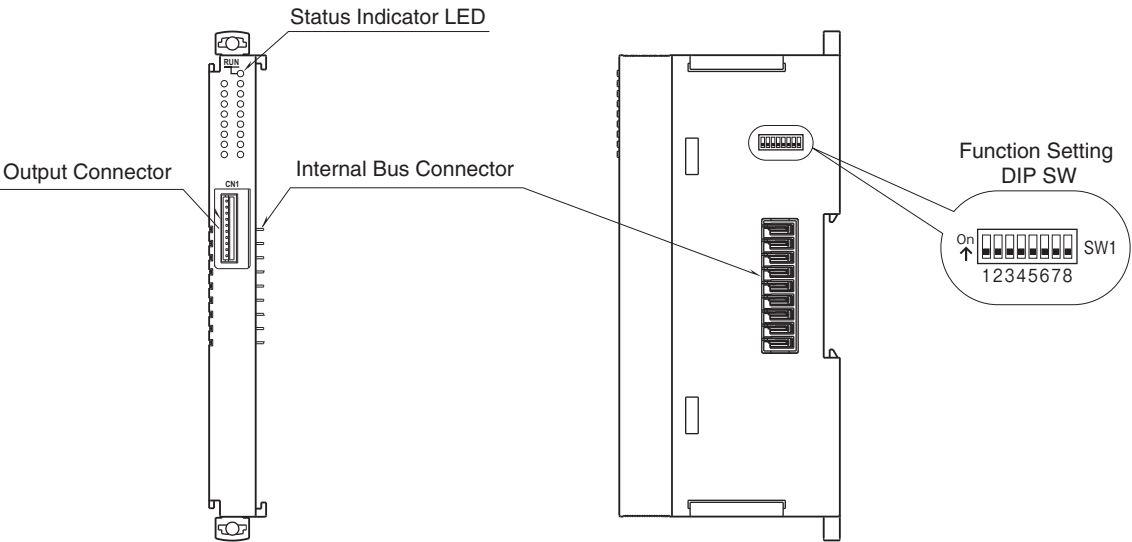
EMC Directive

EMI EN 61000-6-4  
EMS EN 61000-6-2  
RoHS Directive

EXTERNAL VIEW

FRONT VIEW

SIDE VIEW



OPERATING MODE SETTING

(\*) Factory setting

MODULE ADDRESS

SW1-1, 2 determine the tenth place digit, while SW1-3, 4, 5, 6 do the ones place digit of the module address. Address is selected between 0 to 30. (Factory setting: 0)

| MODULE ADDRESS | SW1 |     |     |     |     |
|----------------|-----|-----|-----|-----|-----|
|                | x10 | 3   | 4   | 5   | 6   |
|                | x1  |     |     |     |     |
| 0              |     | OFF | OFF | OFF | OFF |
| 1              |     | OFF | OFF | OFF | ON  |
| 2              |     | OFF | OFF | ON  | OFF |
| 3              |     | OFF | OFF | ON  | ON  |
| 4              |     | OFF | ON  | OFF | OFF |
| 5              |     | OFF | ON  | OFF | ON  |
| 6              |     | OFF | ON  | ON  | OFF |
| 7              |     | OFF | ON  | ON  | ON  |
| 8              |     | ON  | OFF | OFF | OFF |
| 9              |     | ON  | OFF | OFF | ON  |

OUTPUT AT THE LOSS OF COMMUNICATION

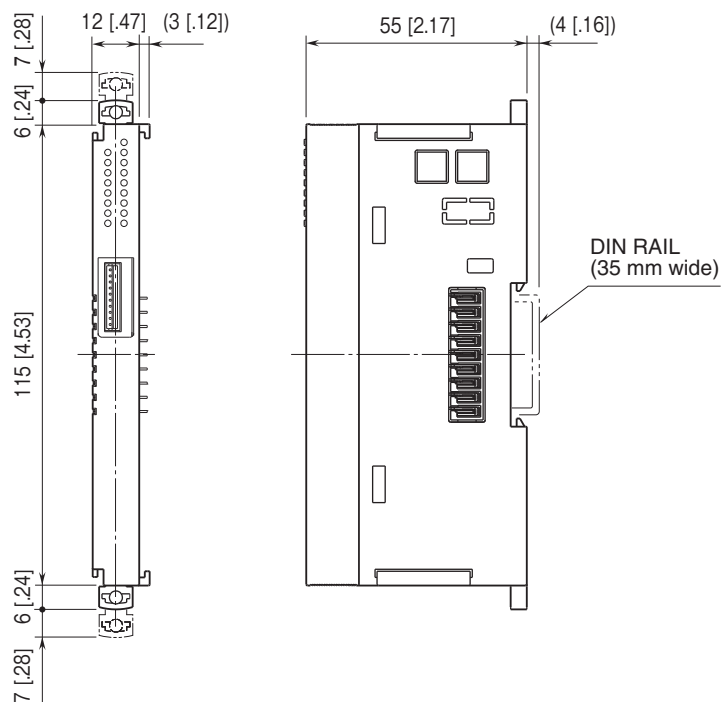
Same output for all channels.

| OUTPUT AT THE LOSS OF COMMUNICATION                       | SW1-7 |
|-----------------------------------------------------------|-------|
| Output Hold (*)<br>(last data correctly received is hold) | OFF   |
| Stop output<br>(Output fixed at OFF)                      | ON    |

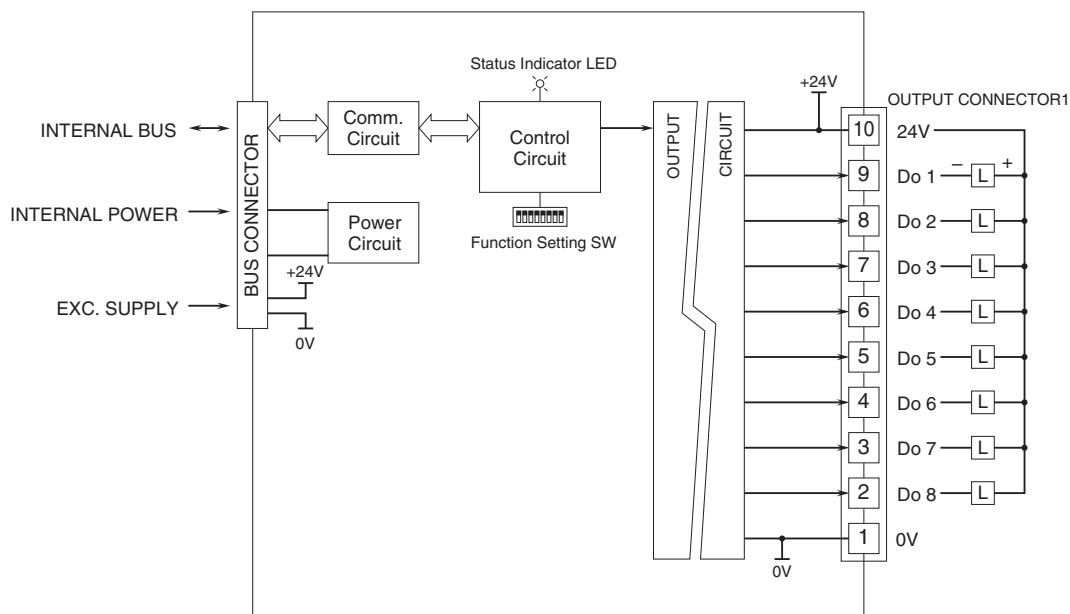
TERMINATOR DIP SW

| TERMINATOR SW | SW1-8 |
|---------------|-------|
| Without (*)   | OFF   |
| With          | ON    |

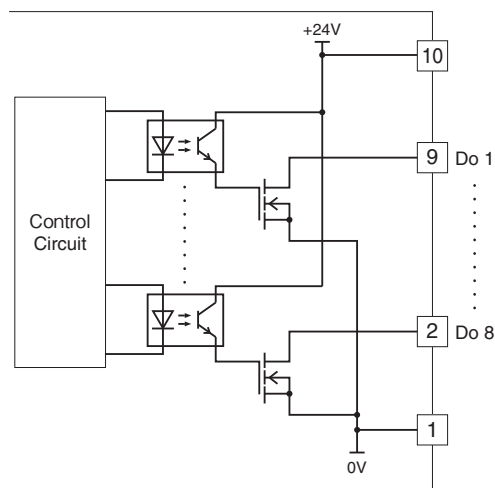
**EXTERNAL DIMENSIONS unit: mm [inch]**



**SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM**



■ OUTPUT CIRCUIT



Specifications are subject to change without notice.