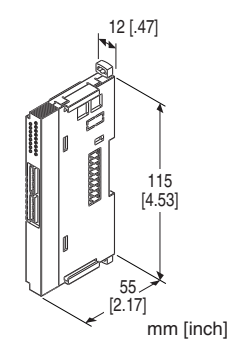


Remote I/O R8 Series

NPN TRANSISTOR OUTPUT MODULE, 16 points

Functions & Features

- 16 channels for discrete output, compact size remote I/O module
- 20 pins (10 pins×2) ZH connector (Japan Solderless Terminal MFG.Co.Ltd)



MODEL: R8Y-DCZH16A[1]

ORDERING INFORMATION

- Code number: R8Y-DCZH16A[1]
Specify a code from below for [1].
(e.g. R8Y-DCZH16A/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: 16 points

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

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

Residual voltage: ≤ 0.2 V

Leakage current: ≤ 0.05 mA

ON delay: ≤ 0.5 msec.

OFF delay: ≤ 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: 1.6 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: ≥ 100 M Ω 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:

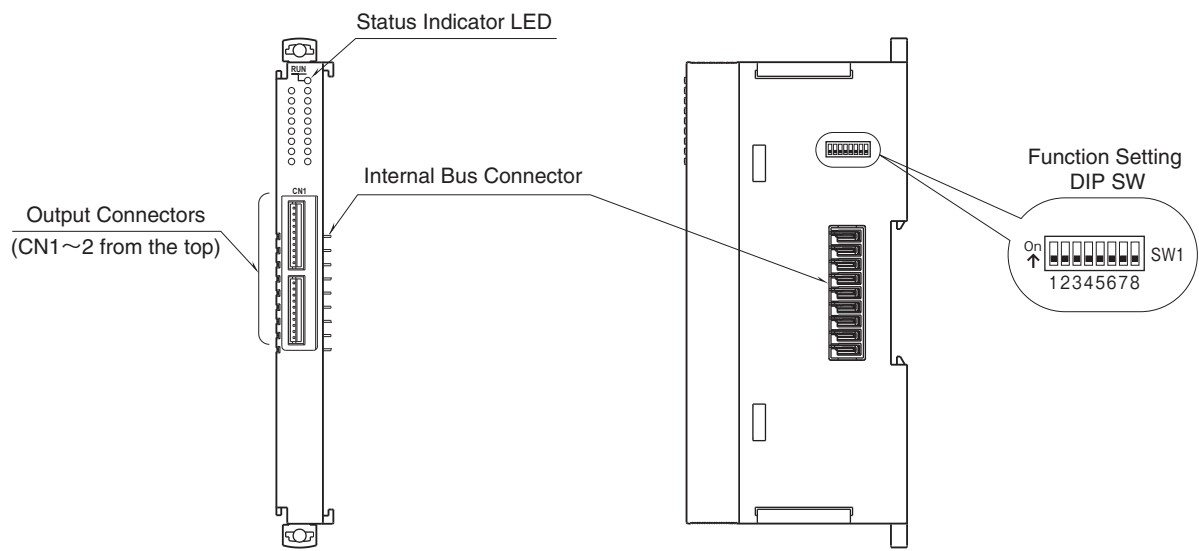
EMC Directive

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

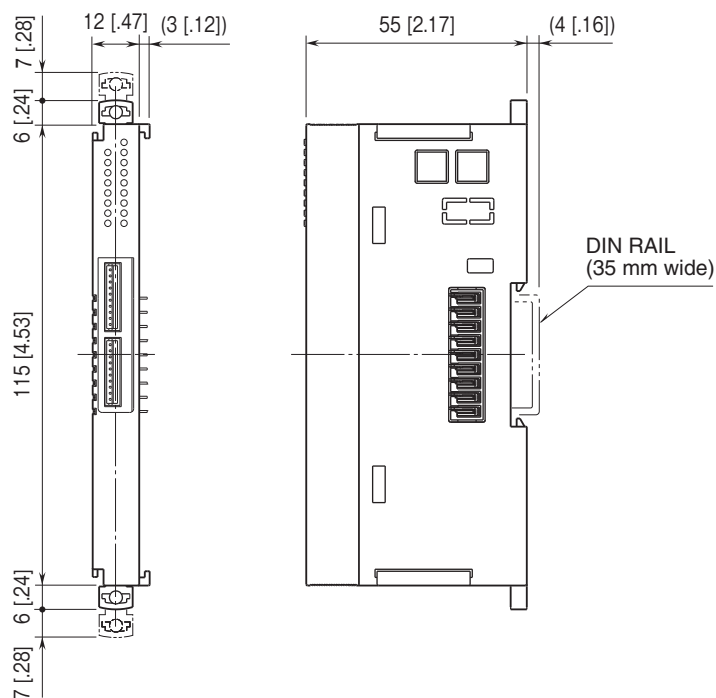
Same output for all channels.

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

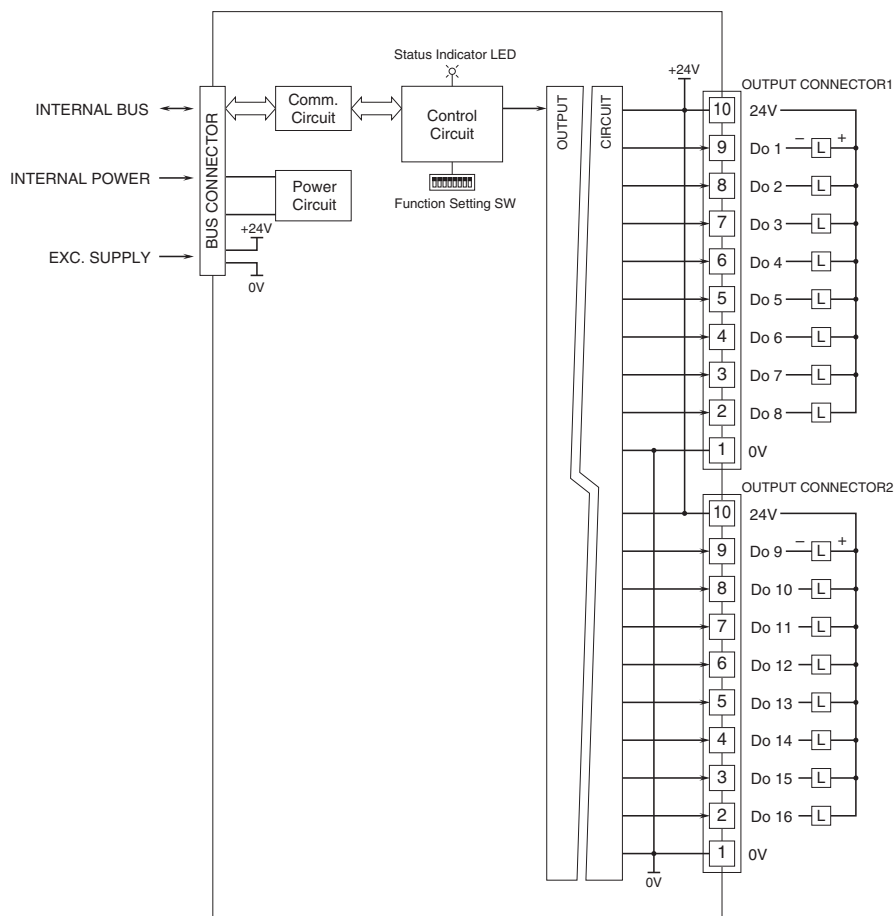
TERMINATOR DIP SW

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

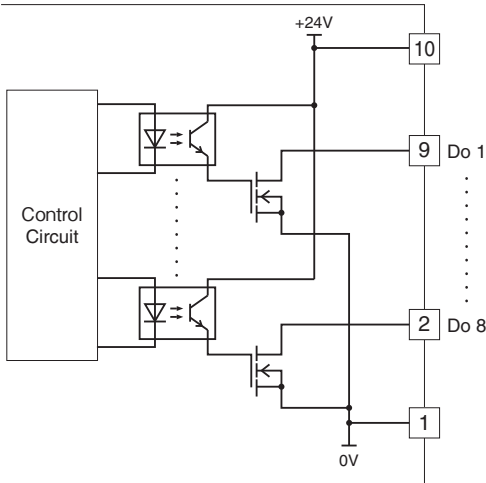
EXTERNAL DIMENSIONS unit: mm [inch]



SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM



■ OUTPUT CIRCUIT



Specifications are subject to change without notice.