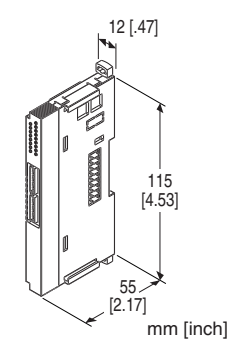


Remote I/O R8 Series

NPN DISCRETE INPUT MODULE, 16 points

Functions & Features

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



MODEL: R8Y-DAZH16A[1]

ORDERING INFORMATION

- Code number: R8Y-DAZH16A[1]
Specify a code from below for [1].
(e.g. R8Y-DAZH16A/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

- Input: 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: Input or exc. supply to internal bus or internal power

Module address: With DIP switch

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

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

INPUT SPECIFICATIONS

Common: Positive common (NPN)

Number of input: 16 points

Maximum inputs applicable at once: No limit (at 24 V DC)

Rated input voltage: 24 V DC $\pm 10\%$, ripple 5 %p-p max.

ON voltage / current: ≥ 15 V DC (input - 24V) / ≥ 2.3 mA

OFF voltage / current: ≤ 5 V DC (input - 24V) / ≤ 1 mA

Input current: ≤ 4.5 mA per point (at 24 V DC)

Input resistance: Approx. 5.7 k Ω

ON delay: ≤ 2.0 msec.

OFF delay: ≤ 2.0 msec.

INSTALLATION

Max. current consumption: 100 mA

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

Excitation supply (input connector): Rated current 1.5 A DC, 0.75 A DC per 1 connector (rated current 3 A for internal fuse (slow blow fuse)).

Insulation resistance: ≥ 100 M Ω with 500 V DC

Dielectric strength: 1500 V AC @ 1 minute

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

STANDARDS & APPROVALS

EU conformity:

EMC Directive

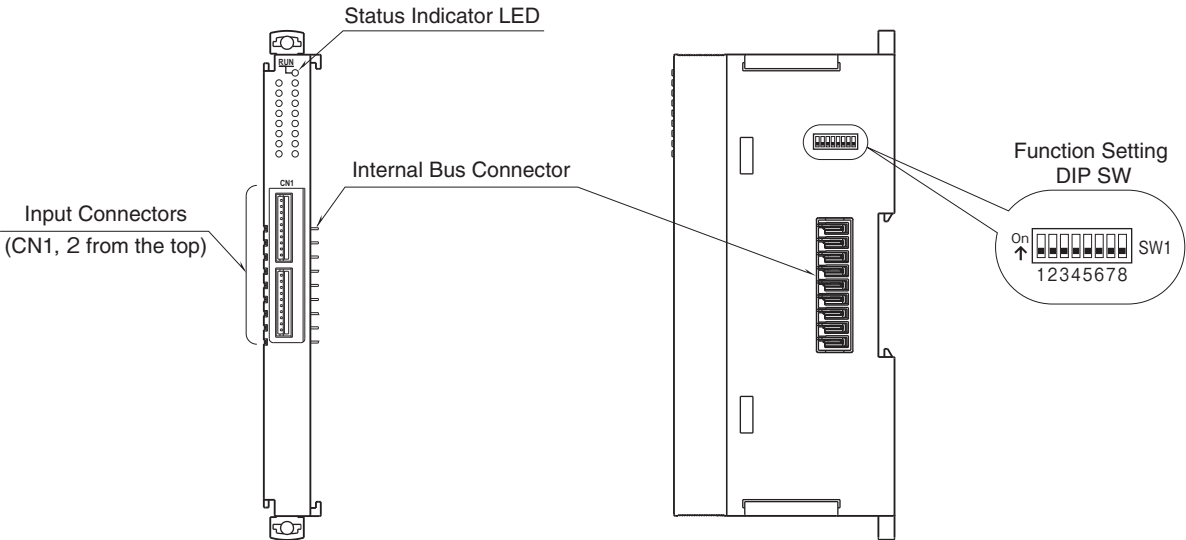
EMI EN 61000-6-4

EMS EN 61000-6-2
RoHS Directive

EXTERNAL VIEW

■ FRONT VIEW

■ SIDE VIEW



OPERATING MODE SETTING

(*) Factory setting

Note: Be sure to set unused SW1-7 to OFF.

• MODULE ADDRESS

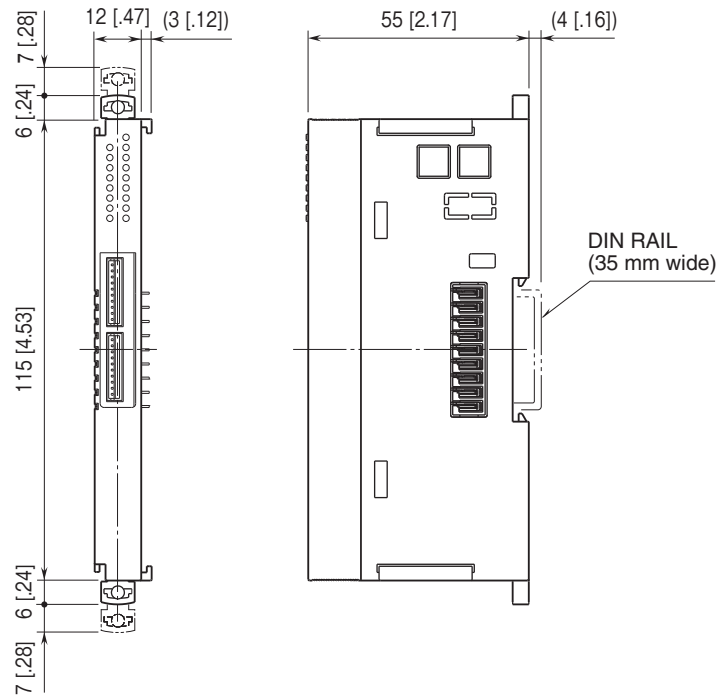
SW1-1, 2 determine the tenth place digit, while SW1-3, 4, 5, 6 do the ones place digit of the module address. Address is selected between 0 to 31. (Factory setting: 0)

MODULE ADDRESS	SW1				
	x10				
	x1	3	4	5	6
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

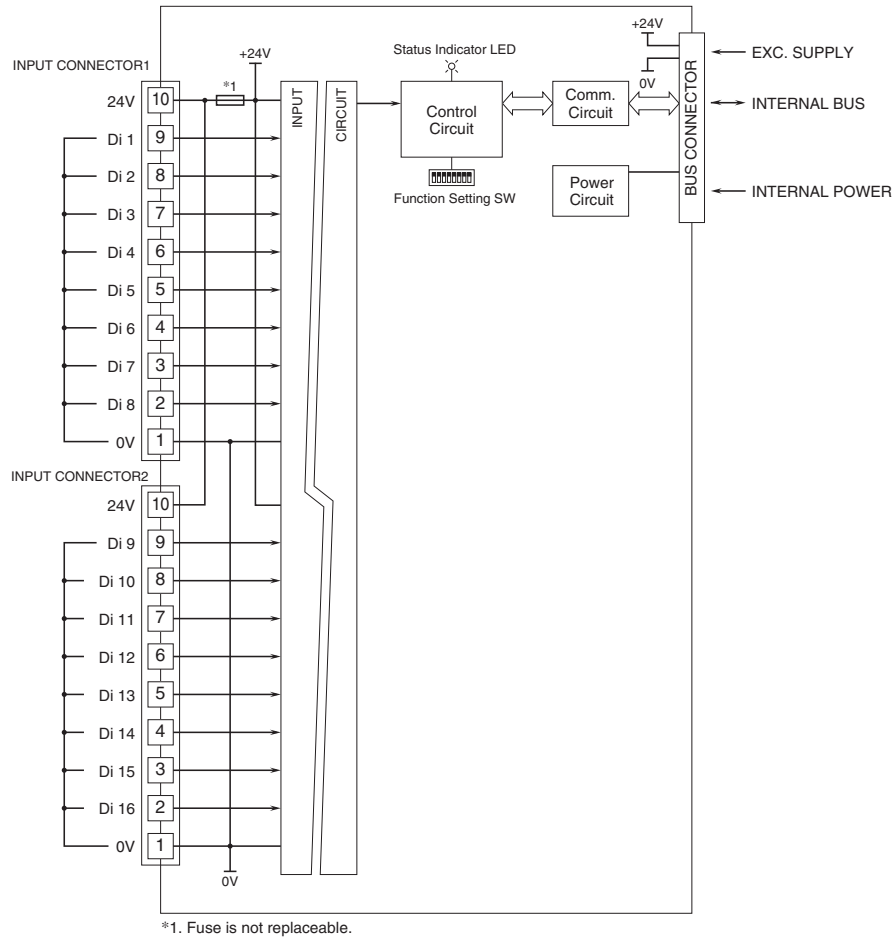
• TERMINATOR DIP SW

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

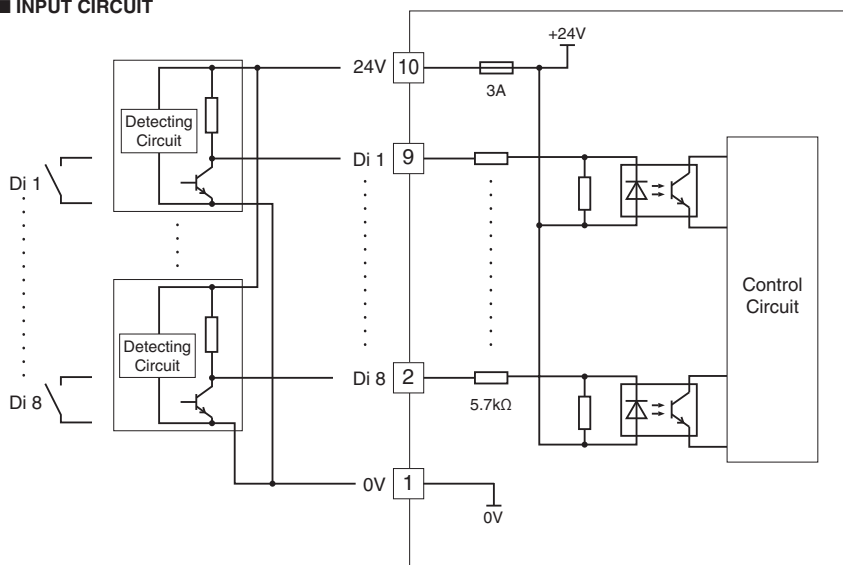
EXTERNAL DIMENSIONS unit: mm [inch]



SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM



■ INPUT CIRCUIT



Specifications are subject to change without notice.