MODEL: R8-DAT16A2

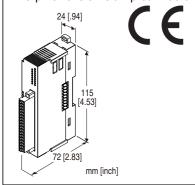
Remote I/O R8 Series

DISCRETE INPUT MODULE, 16 points

(tension clamp terminal block)

Functions & Features

- 16 channels for discrete input, compact size remote I/O module
- 18 pins tension clamp connector



MODEL: R8-DAT16A2[1]

ORDERING INFORMATION

• Code number: R8-DAT16A2[1] Specify a code from below for [1].

(e.g. R8-DAT16A2/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

• PC configurator software (model: R8CFG)

Downloadable at our web site.

A dedicated cable is required to connect the module to the PC. Please refer to the internet software download site or the users manual for the PC configurator for applicable cable types.

GENERAL SPECIFICATIONS

Connection

• Input: Tension clamp

Applicable wire size: 0.2 - 1.5 mm²

Stripped length: 10 mm

• Excitation supply, internal bus:

Connected to internal bus connector

• Internal power: Via 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**: Bi-color (red/green) LED; Refer to the

instruction manual.

Discrete input status indicators: 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 ± 10 %; ripple 5 %p-p max. ON voltage / current: \geq 15 V DC (input - 24 V) / \geq 2.3 mA OFF voltage / current: \leq 5 V DC (input - 24 V) / \leq 1 mA

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

Input resistance: Approx. 5.7 $k\Omega$

ON delay: \leq 2.0 msec. OFF delay: \leq 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: 110 g (0.24 lb)

PERFORMANCE

Data allocation: 1

Module addresses in use: 1

Power output (input connector): Rated current 3 A DC (rated current 3 A for internal fuse (slow blow fuse i²t (A²sec.) max.

5.04)

Insulation resistance: \geq 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)

MODEL: R8-DAT16A2

STANDARDS & APPROVALS

EU conformity:

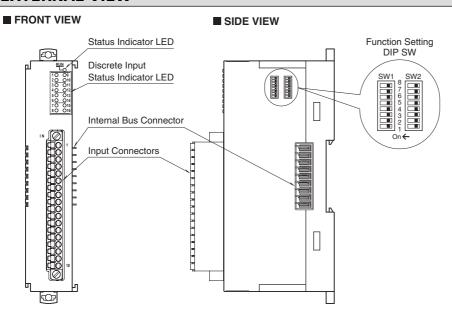
EMC Directive

EMI EN 61000-6-4

EMS EN 61000-6-2

RoHS Directive

EXTERNAL VIEW



OPERATING MODE SETTING

(*) Factory default

Note: Be sure to set unused SW 2-1 through 2-5, 2-7 and 2-8 to OFF

■ Module Address

SW1-1 through 1-4 determine the tenth place digit, while SW1-5 through 1-8 do the ones place digit of the module address.

Address is selected between 0 to 31.

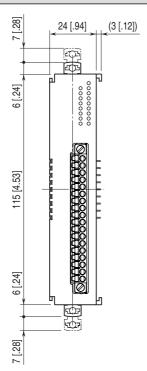
(Factory setting: 0)

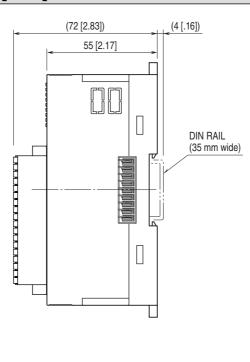
	SW1				
MODULE ADDRESS	×10	1	2	3	4
	×1	5	6	7	8
0		OFF	OFF	OFF	OFF
1		OFF	OFF	OFF	ON
2		OFF	OFF	ON	OFF
3		OFF	OFF	ON	ON
4		OFF	ON	OFF	OFF
5		OFF	ON	OFF	ON
6		OFF	ON	ON	OFF
7		OFF	ON	ON	ON
8		ON	OFF	OFF	OFF
9		ON	OFF	OFF	ON

■ Terminator DIP SW

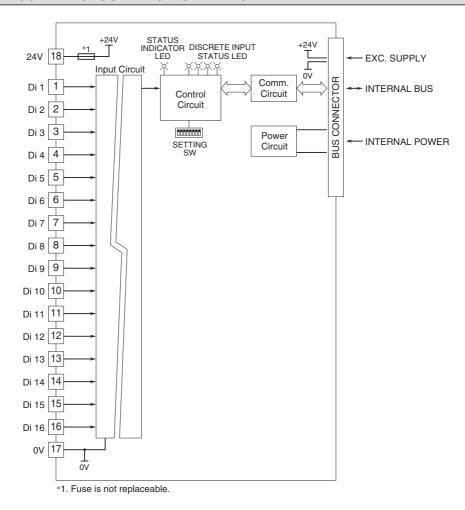
TERMINATOR SW	SW2		
TERMINATOR SW	6		
Without (*)	OFF		
With	ON		

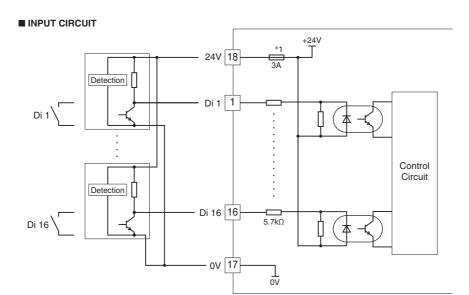
EXTERNAL DIMENSIONS unit: mm [inch]





SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM





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Specifications are subject to change without notice.