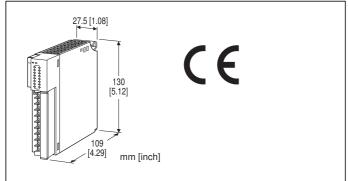
Remote I/O R3 Series

DISCRETE INPUT MODULE

(Di 16 points; with excitation supply)



MODEL: R3-DA16[1][2]

ORDERING INFORMATION

Code number: R3-DA16[1][2]

Specify a code from below for each of [1] and [2]. (e.g. R3-DA16W/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)

Input: M3 separable screw terminal (torque 0.5 N·m) Internal power: Via the Installation Base (model: R3-BSx) Screw terminal: Nickel-plated steel Isolation: Input to internal bus or internal power Excitation monitor: Selectable with side DIP switch; ON/OFF setting available 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: Bi-color (red/green) LED; Red with excitation abnormality; Green in normal operating conditions. Input status indicator: Red LED; turns on with the input ON. Read rate: 1 / 5 / 10 / 20 / 50 / 70 / 100 / 200 msec. selectable with DIP SW

INPUT SPECIFICATIONS

Number of input: 16 points Isolation: Optical isolator + transformer (internal power supply) Input resistance: Approx. 5.9 k Ω Common: Negative commons, all points Contact detecting: 13 V DC (max. 24 V DC with no load) ON current/resistance: ≥ 1.5 mA, ≤ 1.5 k Ω OFF current/resistance: ≤ 0.75 mA, ≥ 18 k Ω Detection levels ON: ≥ 10 V OFF: ≤ 4 V

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: 100 mA Insulation resistance: \geq 100 M Ω with 500 V DC Dielectric strength: 2000 V AC @ 1 minute (input to internal bus or internal power) 2000 V AC @ 1 minute (power input to FG; isolated on the power supply module)

STANDARDS & APPROVALS

EU conformity: EMC Directive EMI EN 61000-6-4 EMS EN 61000-6-2 RoHS Directive

FUNCTIONS

EXCITATION MONITOR

Enabled/disabled with DIP switch setting.

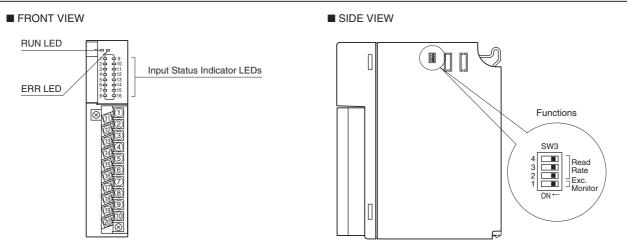
• Excitation Monitor ON

The input is held at the last status when the loss of excitation is detected.

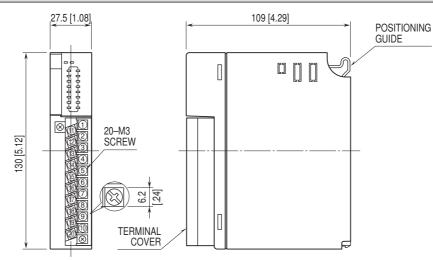
Excitation Monitor OFF

All input signals are turned off when the loss of excitation is detected.

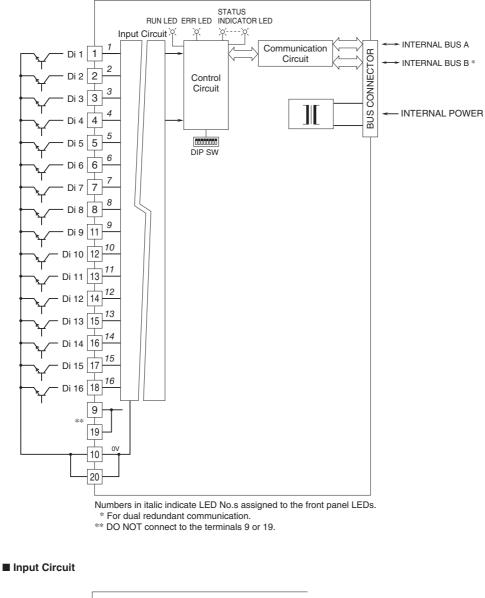
EXTERNAL VIEW

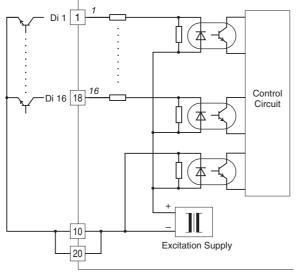


EXTERNAL DIMENSIONS & TERMINAL ASSIGNMENTS unit: mm [inch]



SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM





Specifications are subject to change without notice.