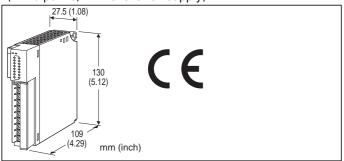
Remote I/O R3 Series

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 [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 M-System's 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 the excitation abnormality; Green in normal operating conditions.

Input status indicator: Red LED; turns on with the inputs

supplied

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: $\geq 100 \text{ M}\Omega$ 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

TEL: (02)2598-1199 E-mail: info@xintop.com FAX: (02)2596-2331 Website: www.xintop.com

CE conformity:

EMC Directive (2004/108/EC)



MODEL: R3-DA16

EMI EN 61000-6-4: 2007/A1: 2011

EMS EN 61000-6-2: 2005

FUNCTIONS

■ EXCITATION MONITOR

Enabled/disabled with DIP switch setting.

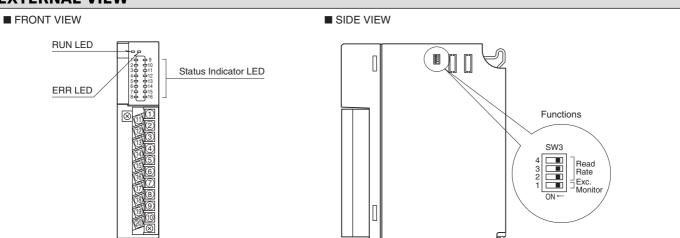
Excitation Monitor ON

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

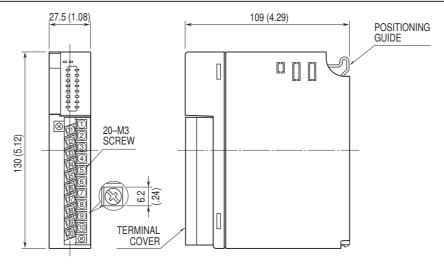
• Excitation Monitor OFF

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

EXTERNAL VIEW



EXTERNAL DIMENSIONS & TERMINAL ASSIGNMENTS unit: mm (inch)

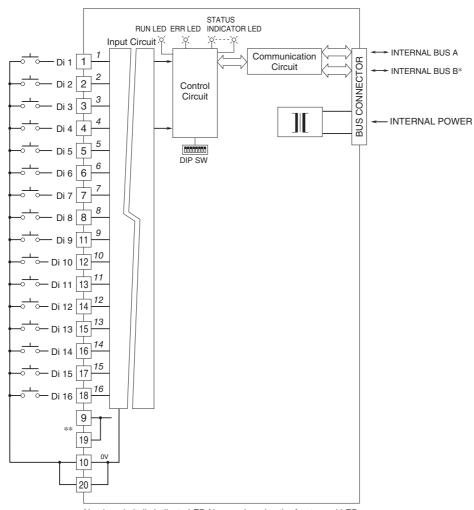


幸託有限公司 XIN TOP CORPORATION

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SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM

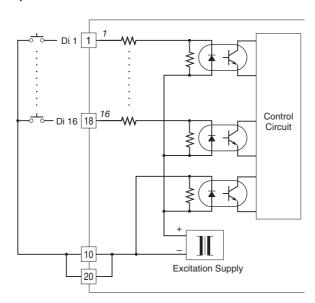


Numbers in italic indicate LED No.s assigned to the front panel LEDs.

*For dual redundant communication.

** DO NOT connect to the terminals 9 or 19.

■ Input Circuit





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MODEL: R3-DA16

Specifications are subject to change without notice.