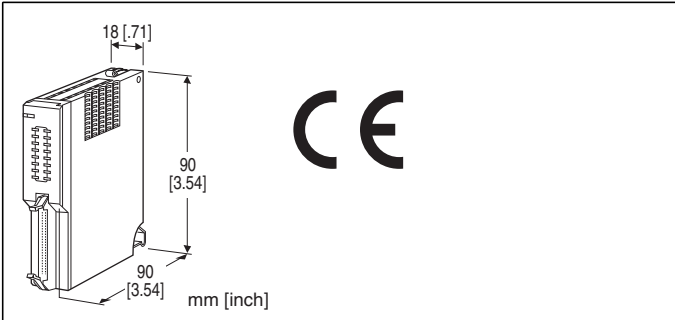


Remote I/O R5 Series

DISCRETE INPUT MODULE

(Di 16 points)



MODEL: R5-DA16[1][2]

ORDERING INFORMATION

- Code number: R5-DA16[1][2]
- Specify a code from below for each of [1] and [2].
(e.g. R5-DA16W/A/Q)
- Specify the specification for option code /Q
(e.g. /C01)

NO. OF CHANNELS

16: 16 points

[1] COMMUNICATION MODE

S: Single
W: Dual

[2] OPTIONS (multiple selections)

Excitation

Blank: Internal

/A: External (24 V DC, positive common)

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

RELATED PRODUCTS

- Cable (model: MCN20)
(in combination with Relay I/O output block, Omron Model:
G7TC-ID16 or G7TC-IA16)

RELATED PRODUCTS

- Cable with connectors (OMRON)
250 mm (model: G79-O25C)
500 mm (model: G79-O50C)
- Connector/terminal block converter (OMRON)
model: XW2D-20G6

GENERAL SPECIFICATIONS

Connection

Internal bus: Via the Installation Base (model: R5-BS)

Input: 20-pin connector

OMRON model: XG4A-2034

Internal power: Via the base (model: R5-BS)

Isolation: Input to internal bus or internal power

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.

Input status indicator: Red LED; turns on with the input ON.

INPUT SPECIFICATIONS

■ Internal Excitation

Input: Dry contact, 16 points

Common: All negatives

Contact detecting: 5 V DC

ON voltage, current: ≥ 3 V, ≥ 1 mA

OFF voltage, current: ≤ 1 V, ≤ 0.5 mA

■ External Excitation

Input: 24 V DC, 16 points (input resistance 6 k Ω)

Common: All positives

Contact detecting: 24 V DC ± 10 %

ON voltage, current: ≥ 15 V, ≥ 2.5 mA

OFF voltage, current: ≤ 6 V, ≤ 1 mA

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: R5-BS)

Weight: 100 g (0.22 lb)

PERFORMANCE

Data allocation: 1

Response time: ≤ 0.1 sec.

Insulation resistance: ≥ 100 M Ω with 500 V DC

Dielectric strength: 1500 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:

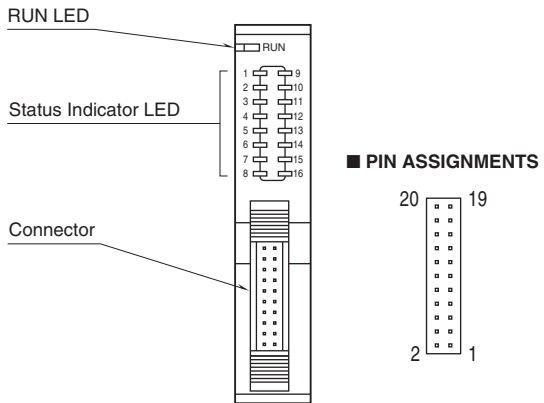
EMC Directive

EMI EN 61000-6-4

EMS EN 61000-6-2

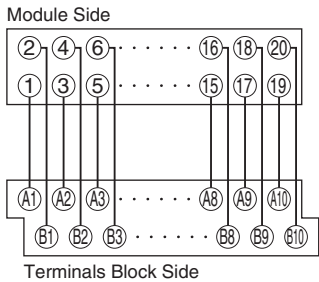
RoHS Directive

EXTERNAL VIEW

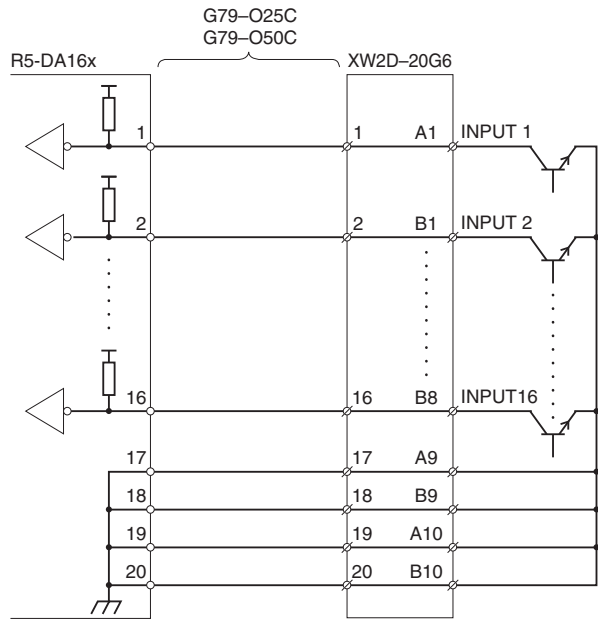


CONNECTOR PIN ASSIGNMENT

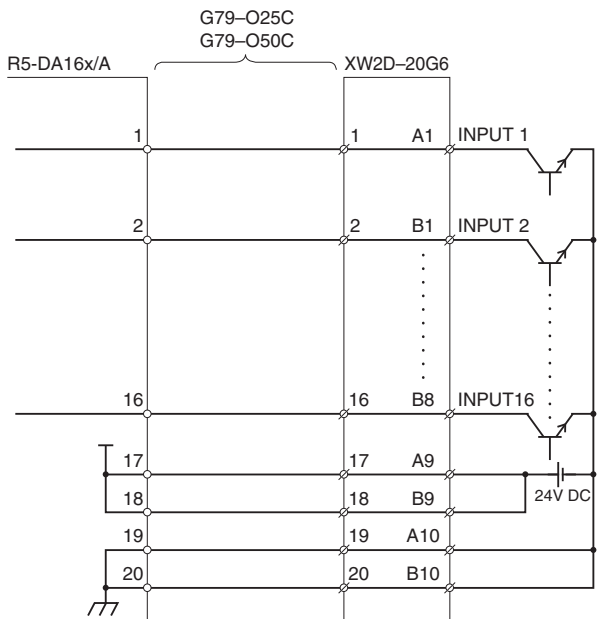
Pin assignments



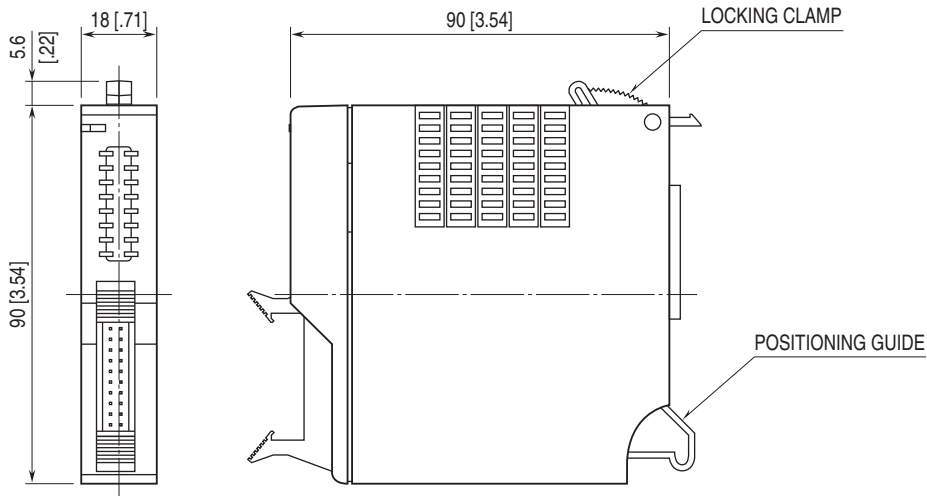
■ R5-DA16x



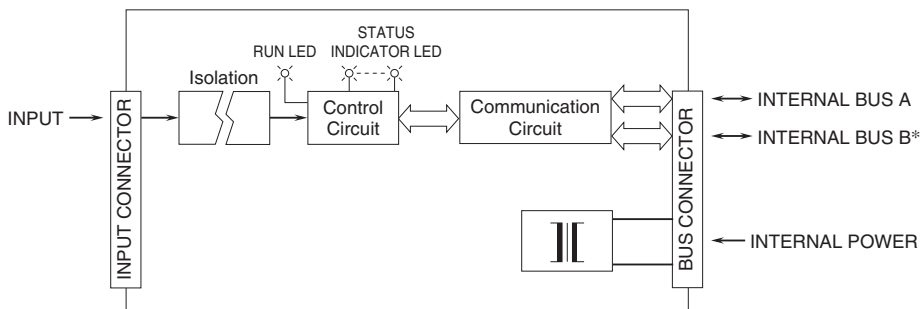
■ R5-DA16x/A



EXTERNAL DIMENSIONS unit: mm [inch]

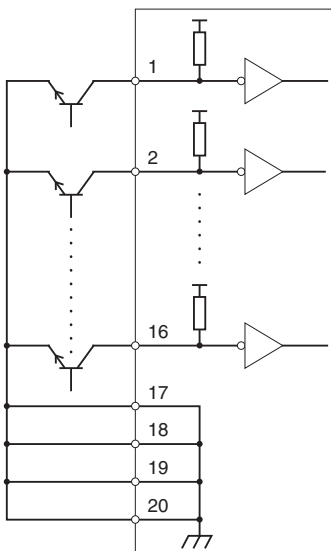


SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM

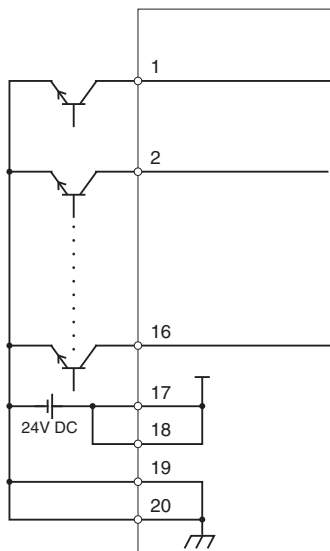


*For dual redundant communication.

■ R5-DA16x



■ R5-DA16x/A



INPUT CONNECTOR

■ R5-DA16x (internal excitation)

PIN NO.	ASSIGNMENT	PIN NO.	ASSIGNMENT
1	ch. 1	11	ch. 11
2	ch. 2	12	ch. 12
3	ch. 3	13	ch. 13
4	ch. 4	14	ch. 14
5	ch. 5	15	ch. 15
6	ch. 6	16	ch. 16
7	ch. 7	17	COM
8	ch. 8	18	COM
9	ch. 9	19	COM
10	ch. 10	20	COM

■ R5-DA16x/A (external excitation)

PIN NO.	ASSIGNMENT	PIN NO.	ASSIGNMENT
1	ch. 1	11	ch. 11
2	ch. 2	12	ch. 12
3	ch. 3	13	ch. 13
4	ch. 4	14	ch. 14
5	ch. 5	15	ch. 15
6	ch. 6	16	ch. 16
7	ch. 7	17	24V DC
8	ch. 8	18	24V DC
9	ch. 9	19	0V
10	ch. 10	20	0V



Specifications are subject to change without notice.