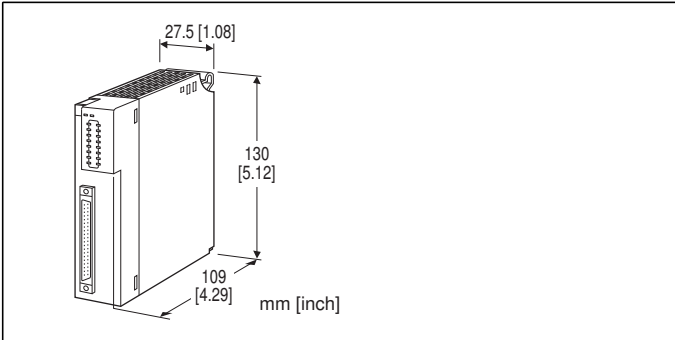


## Remote I/O R3 Series

### AC CONTACT INPUT MODULE

(Di 16 points)



### MODEL: R3Y-DA16B[1][2]

#### ORDERING INFORMATION

- Code number: R3Y-DA16B[1][2]  
Specify a code from below for each of [1] and [2].  
(e.g. R3Y-DA16BW/Q)
- Specify the specification for option code /Q  
(e.g. /C01)

#### NO. OF CHANNELS

16: 16 (AC contact input)

#### INPUT

B: AC CONTACT INPUT

#### [1] COMMUNICATION MODE

S: Single

W: Dual

#### [2] OPTIONS

blank: none

/Q: Options 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:** 40-pin connector (OTAX N365P040AU

Fujitsu FCN-365P040-AU...discontinued))

**Internal power:** Via the Installation Base (model: R3-BSx)

**Isolation:** Input to 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

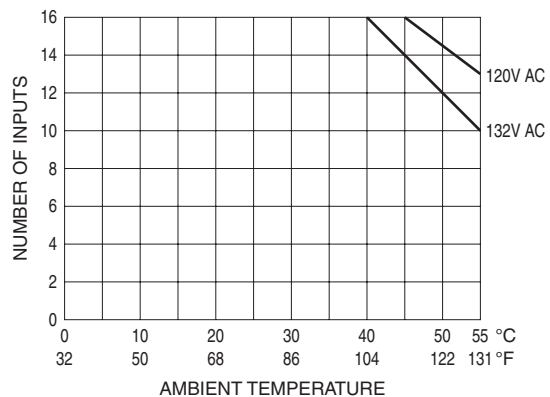
**Input voltage:** 100 - 132 V AC

**Input resistance:** 12 kΩ (60 Hz), 15 kΩ (50 Hz)

**Common:** All points (2 terminals)

**ON voltage/current:** ≥ 80 V AC, ≥ 5 mA

**OFF voltage/current:** ≤ 30 V AC, ≤ 1.7 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: R3-BSx)

**Weight:** 200 g (0.44 lb)

#### PERFORMANCE

**Data allocation:** 1

**Current consumption:** 80 mA

**Response time:** ≤ 0.1 sec.

**Insulation resistance:** ≥ 100 MΩ with 500 V DC

**Dielectric strength:** 2000 V AC @ 1 minute  
(input to internal power)

2000 V AC @ 1 minute (power input to FG; isolated on the power supply module)

## FUNCTIONS

### •Excitation Monitor Active

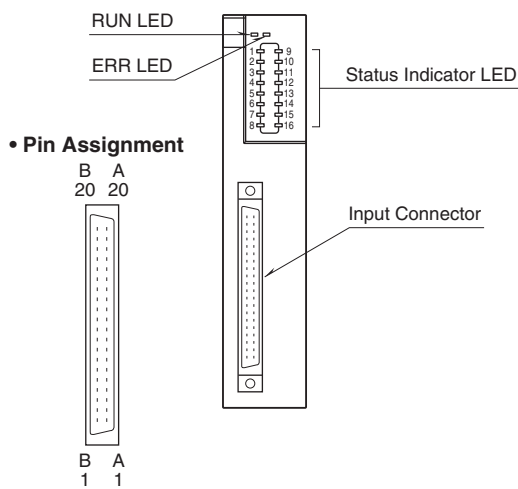
The input is held at the last status when the loss of excitation is detected. The excitation must be connected across CHK (4A/4B or 3A/3B) and COM (2A/2B or 1A/1B).

### •Excitation Monitor Inactive

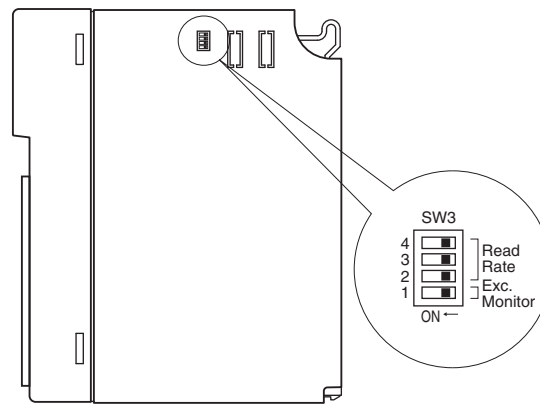
All input signals are turned off when the loss of excitation is detected.

## EXTERNAL VIEW

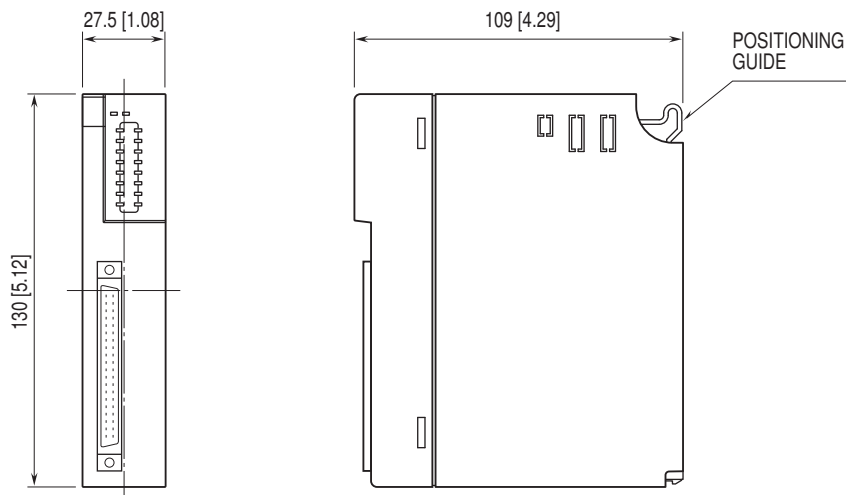
### ■ FRONT VIEW



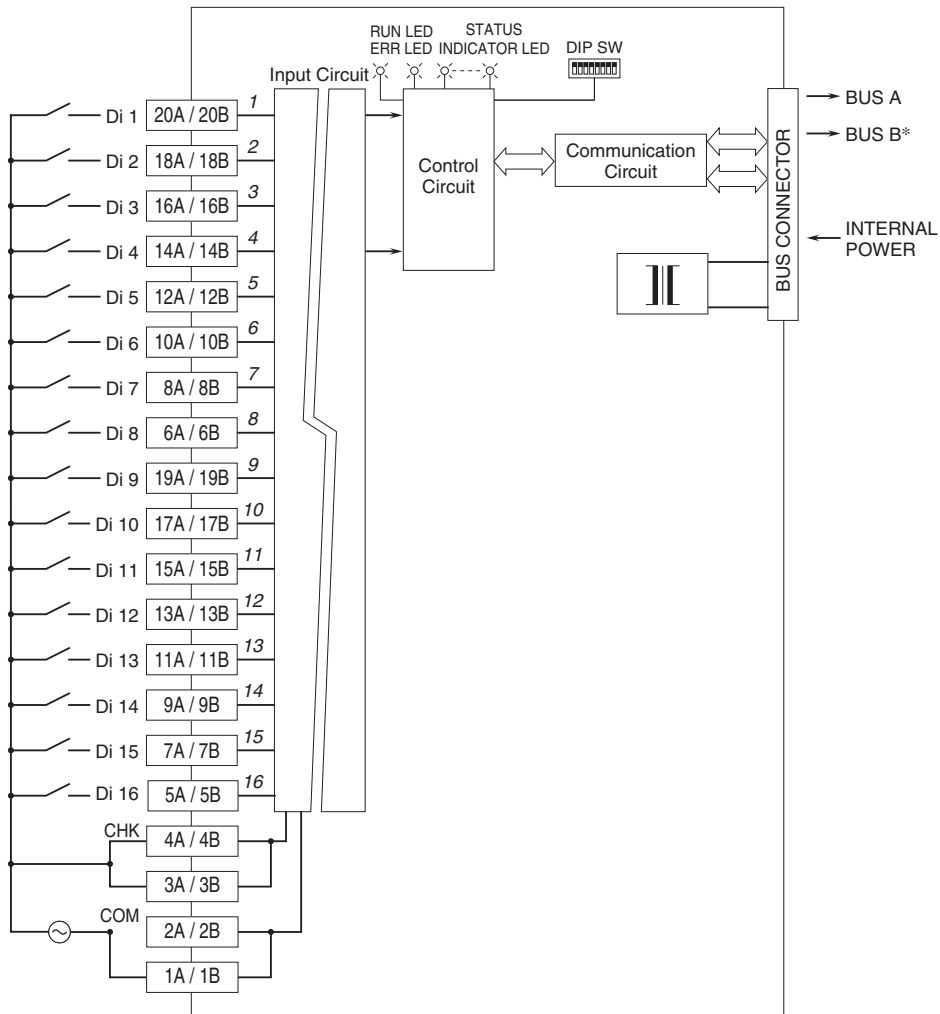
### ■ SIDE VIEW



## EXTERNAL DIMENSIONS unit: mm [inch]

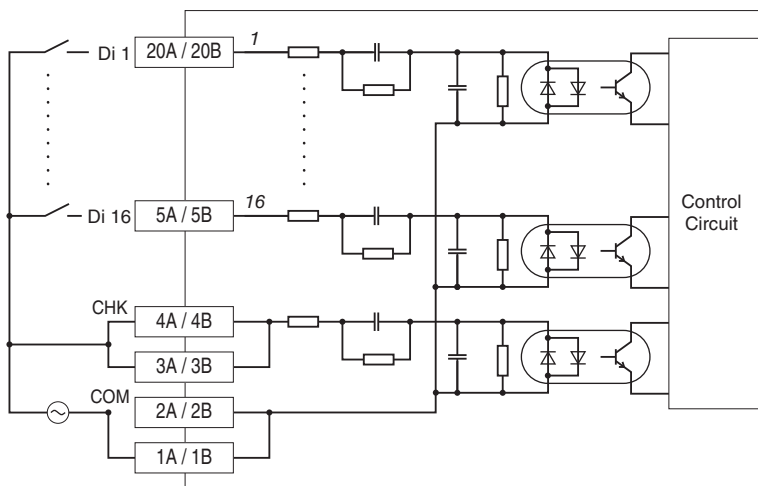


## SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM



Numbers in italic indicate LED No.s assigned to the front panel LEDs.  
 \*For dual redundant communication.

### ■ Input Circuit



## INPUT CONNECTOR (40-pin)

PIN No.	ASSIGNMENT	PIN No.	ASSIGNMENT
1A	COM	1B	COM
2A	COM	2B	COM
3A	CHK	3B	CHK
4A	CHK	4B	CHK
5A	Di16	5B	Di16
6A	Di8	6B	Di8
7A	Di15	7B	Di15
8A	Di7	8B	Di7
9A	Di14	9B	Di14
10A	Di6	10B	Di6
11A	Di13	11B	Di13
12A	Di5	12B	Di5
13A	Di12	13B	Di12
14A	Di4	14B	Di4
15A	Di11	15B	Di11
16A	Di3	16B	Di3
17A	Di10	17B	Di10
18A	Di2	18B	Di2
19A	Di9	19B	Di9
20A	Di1	20B	Di1



Specifications are subject to change without notice.