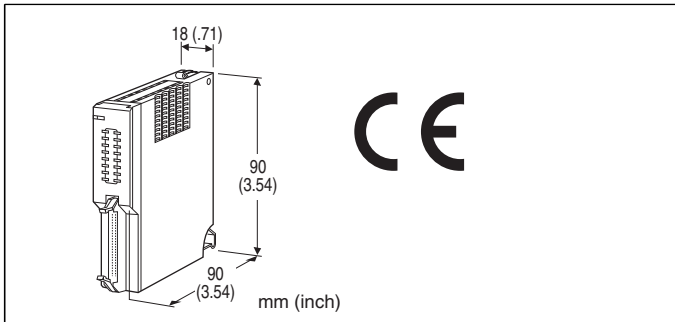


Remote I/O R5 Series

DISCRETE OUTPUT MODULE

(open collector output, 16 points)



MODEL: R5-DC16[1]

ORDERING INFORMATION

- Code number: R5-DC16[1]
- Specify a code from below for [1]
(e.g: R5-DC16W)

[1] COMMUNICATION MODE

S: Single

W: Dual

- 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-BSx)

Output: 20-pin connector OMRON model: XG4A-2034

Power supply: Via the base (model: R5-BSx)

Isolation: Output to 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.

Output status indicator: Red LED; turns on with the output ON.

OUTPUT SPECIFICATIONS

Output: Open collector, 16 points

Commons: All negatives

Rated load

Maximum: 30 V DC @ 100 mA (resistive load)

Continuous: 30 V DC @ 60 mA (resistive load)

Total current of the output 1 thr. 8 and the output 9 thr. 16 must respectively be 500 mA or less.

Saturation voltage: 1 V DC

When driving an inductive load, external contact protection and noise quenching recommended.

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-BSx)

Weight: 100 g (3.53 oz)

PERFORMANCE

Data allocation: 1

Response time: ≤ 0.1 sec.

Insulation resistance: ≥ 100 MΩ with 500 V DC

Dielectric strength: 1500 V AC @ 1 minute (output to internal power)

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

STANDARDS & APPROVALS

CE conformity:

EMC Directive (2004/108/EC)

EMI EN 61000-6-4: 2007

EMS EN 61000-6-2: 2005

FUNCTIONS

Output hold function:

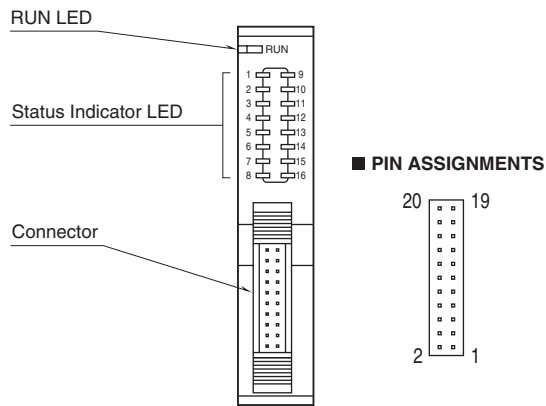
In normal conditions, the module outputs the signal from the preferred bus A.

When an error is detected, the output is switched to the data from the bus B.

If both are in error, the module holds the signal and stands by until one of the communications recovers.

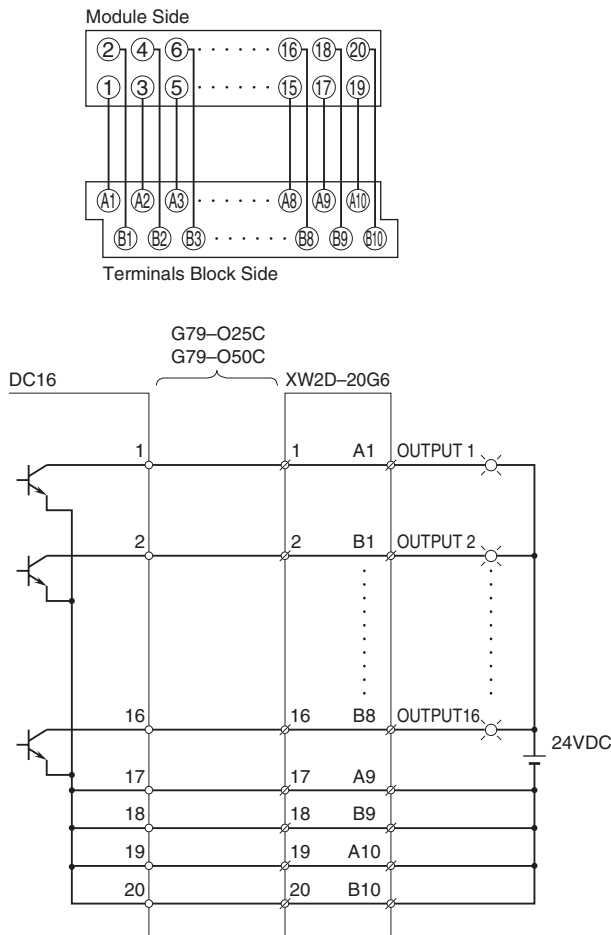
At the startup, it outputs OFF until the communication is established and normal data is received.

EXTERNAL VIEW

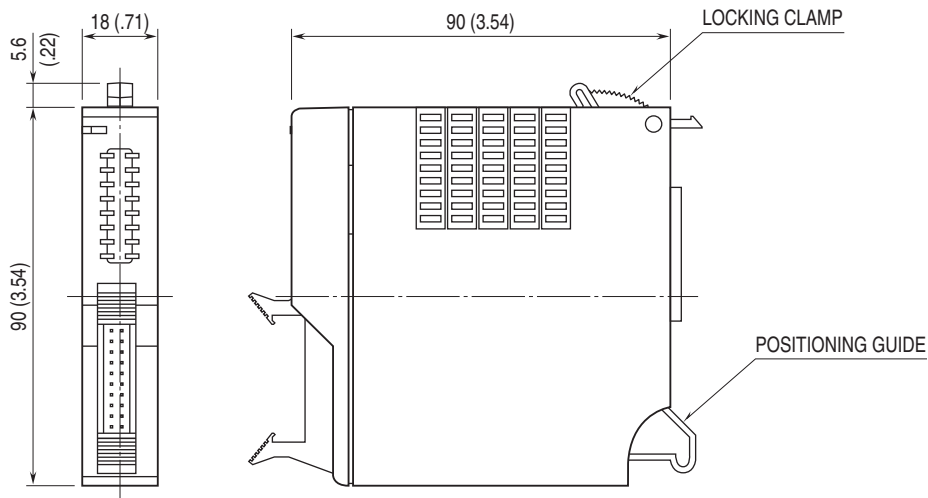


CONNECTOR PIN ASSIGNMENT

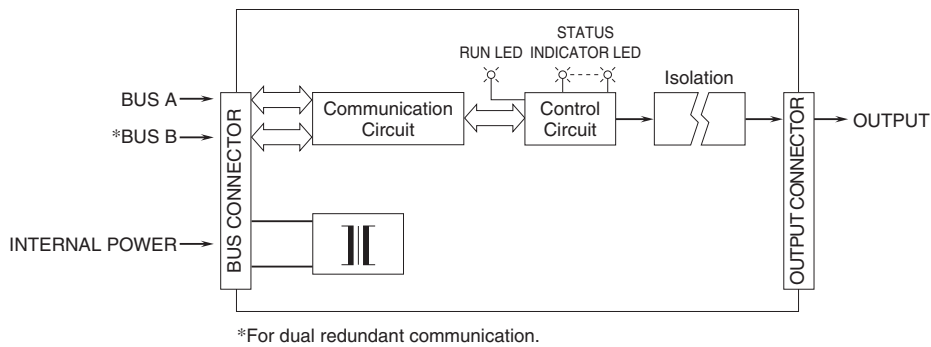
Pin assignments



DIMENSIONS unit: mm (inch)



SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM



OUTPUT CONNECTOR

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



Specifications are subject to change without notice.