# Multi-circuit Water Leakage Detector AD-AS-5DRM Operation Manual

Tatsuta Electric Wire & Cable Co., Ltd.

Electronics Division

System Department

# <<<Important Safety Instructions>>>



Erroneous operation of this water leakage detector not complying with the warning labels or the following warnings may not only lead to possible fatality or serious injury, but also fire, electric shock or detector failure.

# 

# Strictly Prohibited!

- □ Never modify or disassemble the detector.
- □ Allow only persons responsible for handling this product to perform installation work on it or inspect it with the outer cover opened.
- □ Do not touch any internal component with wet hands.
- □When performing maintenance on the product, avoid using organic solvent. Use soft cotton wastes such as the gauze to wipe gently.
- □After the detector is constructed, do not leave cover open, except for periodic inspection and maintenance purposes.

# ⚠ Checkpoints!

- □ Check detector supply voltage and rated voltage before installing.
- □ When installing and electrically connecting the detector, follow the instructions in the instruction manual.
- □ When carrying out maintenance and periodic inspection on the detector, follow the instructions in the instruction manual.
- □When using control output contacts, check the contact rated load in the instruction manual.

### Do not install the detector in the following locations!

- □ Locations easily accessible to the general public
- □ Locations close to sources of vibration, corrosive gas or strong electromagnetic induction
- $\hfill \square$  Locations with much waste and dust.
- □ Locations where there is possibility of exposure to water, or high temperature and humidity.

### Warranty

Before shipping, this product is subject to strict quality control and inspection. In the event of spontaneous failure resulting from defective manufacturing, we will repair or replace it according to the following provisions.

### Warranty Provisions

- 1. Warranty period (one year after the delivery date of the product)
- Should the product fail during the warranty period under normal usage according to the operation manual, we will repair or replace it free of charge. Please contact us (the division) using the contact information given below.
- 2. Cases not covered by the warranty
- $\hfill \square$  After the period of warranty
- $\hfill \square$  Failures due to incorrect usage, and unauthorized repairs and modifications
- ☐ Failures or damages due to moving, dropping etc. after purchase
- ☐ Failures or damages due to fire and natural disasters
- ☐ Failures not attributable to this product
- ☐ Fees for on-site service (visiting fee and technical fee)

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# Table of contents

|  | Page |
|--|------|
| 1. Installation and Handling Precautions   | 1    |
| 1-1 Installation   |      |
| 1-2 Handling Precautions   |      |
| 2. External Connection   | 1~3  |
| 2-1 Power Connection   |      |
| 2-2 Water Leakage Sensor Connection  |      |
| 2-3 Main Control Output Contact Connection   |      |
| 2-4 Individual Control Output Contact Connection                                   |      |
| 3. Operation Check   | 3~5  |
| 3-1 Power On   |      |
| 3-2 Check for Break Detection Function   |      |
| 3-3 Check for Water Leakage Detection Function                                     |      |
| 4. Operation Chart   | 6~7  |
| 4-1 Standard Operation Chart   |      |
| 4-2 Operation Chart When Alarm Hold Setting is Activated                           |      |
| 5. Adjustment of Water Leakage Detection Precision                                 | 8    |
| 5-1 Adjustment Method  |      |
| 6. Buzzer Setting  | 8    |
| 6-1 Buzzer Volume Setting  |      |
| 6-2 Buzzer Stop Setting  |      |
| 7. Maintenance and Periodic Inspection   | 9    |
| 8. Specifications  | 10   |
| 8-1. Ratings   |      |
| 8-2 Performances   |      |
| 8-3 Control Output Contact Specifications  |      |
| □Attached Drawing 1 Outside Dimensions of Water Leakage Detector(AD-AS-5DRM)       |      |
| □ Attached Drawing 2 Parts Layout of Water Leakage Detector (AD-AS-5DRM)           |      |
| □ Attached Drawing 3 Parts Layout of CPU Unit (AD-AS-CPU)                          |      |
| □ Attached Drawing 4 Instructions to the Resistance/ Detection Precision Operation |      |
| Attached Drawing 5 Instruction to Operation Switchover DIP Switch (AD-AS-5DRM)     |      |

First of all, thank you very much for purchasing the Water Leakage Detector AD-AS-5DRM.

Before using, read this operation manual carefully to ensure correct operation. Keep this manual in a convenient place for quick reference.

### 1.Installation and Handling Precautions

### 1-1 Installation

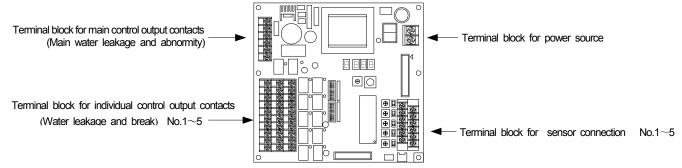
- 1)Remove the CPU unit from the body case. (Using M3 screw)
  In winter, pay special attention to static electricity, and conduct installation by holding the baseboard edge.
- 2) Drill installation hole and connecting hole on the body case, do not leave cutting power, etc.
- 3) After the body case is installed in the setting place, install various CPU units removed in 1).
- 4) Install the terminal block wires and connectors of the CPU units.

### 1-2 Handling Precautions

- 1) Use the detector in an environment with a temperature range between -10°C and 50°C and a humidity range between 35% and 85%.
- 2) Do not use the detector in any location close to sources of vibration and harmful gas, and strong electromagnetic inductive power sources, which may lead to malfunction and failure.
- 3) Avoid using the socket lead as the power source as far as possible, and use fixed wire to connect power source.
- 4) After installation, be sure to conduct tests in conformance with the operation check items described in Chapter 3.

### 2.External Connection

Set the terminal blocks as shown in Drawing 1 on CPU unit AD-AS-CPU.



**Drawing 1 Layout Drawing of Terminal Block** 

### 2-1 Power On

Before connection, check that the power supply voltage is within the range of use, then, connect it securely to the terminal block.

\*Inputting a power voltage outside the range of use may cause malfunctions and failure of the detector.



Drawing 2 Terminal Block for Power Source

### 2-2 Water Leakage Sensor Connection (Refer to Attached Drawing 3)

Connect the water leakage sensor to "S1"-"S5" of the sensor connection terminal block. The sensor has no polarity. Example: For S1, connect the water leakage sensor to A6 and B6.

\*Be sure to install break detection terminal on water leakage sensor.

If it is the point sensor, use break detection terminal built-in product AD-PA-R.

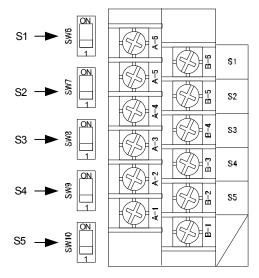
### (Precautions)

□ When the sensor is not connected, set the DIP switch at the position "ON".

When not set at the position "ON", break alarm will be putout.

(Note) Factory setting of DIP switch is at the position "I".

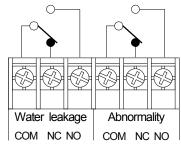
- □ When changing wires, etc., conduct at the status when the detector power source has been cut off.
- □ A-1 and B-1 are not used. Do not connect water leakage sensor to them.



Drawing 3 Terminal Block for the Sensor

### 2-3 Main Control Output Contacts Connection (Refer to Attached Drawing 3)

Due to main output of water leakage and abnormalities (contact c), connect when external control is required.



Drawing 4 Terminal Block for Main Control Output Contacts

Water leakage COM-NO: Closed when single-circuit water leakage is detected

COM-NC: Open when single circuit water leakage is detected

Abnormalities COM-NO: Closed when single circuit water leakage or break is detected

COM-NC: Open when single circuit water leakage or break is detected

### \*Contact operation

Setting SW2 on the CPU unit can enable the alarm hold and fail-safe function to be effective.

\* If the fail-safe function is effective, the contact will be operated reversely.

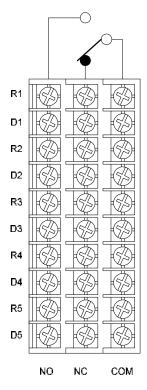
For details, refer to Attached Drawing 5 and the Operation Chart in Chapter 4.

### \* Abnormal contacts

The operation can be changed as activated only when the break or recovery occurs by setting SW2 on the CPU unit.

For details, refer to Attached Drawing 5.

Due to individual output contacts of water leakage or break (contact c), connect when external control is required.



**Drawing 5 Individual Control Output Contacts** 

Water leakage (Rn) COM-NO: Closed when water leakage is detected under n circuit

COM-NC: Open when water leakage is detected under n circuit

Break (Dn) COM-NO: Closed when break is detected under n circuit

COM-NC: Open when break is detected n circuit

Setting SW2 on the CPU unit can enable the alarm hold and fail-safe function to be effective.

\*If the fail-safe function is effective, the contact is operated reversely.

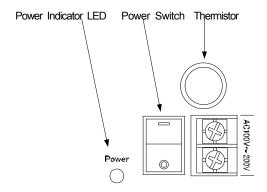
For details, refer to Attached Drawing 5 and the Operation Chart in Chapter 4.

### 3. Operation Check

3-1 Power-On (refer to Attached Drawing 3)

When the power source switch is at -, it is on, when at o, it is OFF.

Set the CPU power source switch at "ON" and check that the power indicator LED on the CPU unit is lighting up. In the case that the LED does not light up, the detector may be out of order. Power off the detector promptly and contact the manufacturer.



<sup>\*</sup>Contact operation

- 3-2 Check for Break Detection Function (Refer to Attached Drawing 3 and Drawing 3)
  - 1) Check that the DIP switch for the circuit required to be checked has been set at the position "I".
  - 2) <u>After powering off the detector</u>, remove the water leakage sensor from the trunk terminal block and then power on the detector.
  - 3) The buzzer sounds, the break Indicator LED flashes, and individual contacts (break) function.
  - 4) After the operation check, **power off the detector**, and then connect the sensor and the DIP switch again.
  - \*When water leakage sensor circuit is not connected, set the DIP switch at "ON".
  - \*When water leakage sensor circuit is connected, set the DIP switch at "1".
- 3-3 Check for Water Leakage Detection Function (Refer to Attached Drawing 3 and Drawing 3)
  - 1) Check that the DIP switch for the circuit required to be checked has been set at the position "1".
  - 2) Drop tap water on the sensor.
  - 3) The buzzer sounds, the water leakage Indicator LED flashes, and individual contacts (water leakage) function.
  - 4) Wipe the tap water dropped on the sensor with dry rags, etc. and check that the water leakage status returns to normal.

### 4. Operation Chart

4-1 Standard Operation Chart (Factory Setting)

(\* Fail-safe and alarm hold are not set )

For the Operation Chart, refer to Drawing 7

| Power   | OFF      |      |        |          |              |        |         |              |            |                      |
|---|----------|------|--------|----------|--------------|--------|---------|--------------|------------|----------------------|
|   |          |      |        |          |              |        |         |              |            |                      |
| Power Indicator LED                                   | Lighting | out. | Lig    | hting up |              |        |         |              |            |                      |
| Power Indicator LED                                   | Lighting | Out  |        |          |              |        |         |              |            |                      |
|   |          |      |        |          |              |        |         |              | ON         |                      |
| Indicator LED Test Switch                             | OFF      |      |        |          |              |        |         |              |            | OFF                  |
|   |          |      |        |          |              |        |         |              |            |                      |
|   |          |      | 01     | N        |              |        |         |              |            |                      |
| Water leakagee detection function                     | OFF      |      |        |          | OFF          |        |         |              |            |                      |
|   |          |      | Lighti | ng up    |              |        |         |              | Lighting ( | ın                   |
| Water Leakage Indicator LED                           | Lighting | out  | Ligitu | ig up    | Lighting out |        |         |              |            | Lighting out         |
|   |          |      |        |          | 3 : 3 : : :  |        |         |              |            |                      |
|   |          |      |        |          |              | ON     |         |              |            |                      |
| Break detection function                              | OFF      |      |        |          |              |        |         | OFF          |            |                      |
|   |          |      |        |          |              | 1 :    |         |              |            |                      |
| Break Indicator LED                                   | Lighting | out. |        |          |              | Lighti | ng up   | Lighting out | Lightin    | g up<br>Lighting out |
|   | Lighting | out  |        |          |              |        |         | Lighting Out |            | Lighting out         |
|   |          |      |        | NC       |              | C      | ON      |              |            |                      |
| Buzzer Alarm Stop Switch                              | OFF      |      |        |          | OFF          |        |         | OFF          |            |                      |
|   |          |      |        |          |              |        |         |              |            | _                    |
| 0, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,             | 1.10     |      |        | Lightir  |              |        | Lightir |              | Lightin    |                      |
| Buzzer Stop Indicator LED                             | Lighting | out  |        |          | Lighting out |        |         | Lighting out |            | Lighting out         |
|   |          |      | ON     |          |              | ON     |         |              | ON         |                      |
| Buzzer Sounding                                       | OFF      |      | 0.1    | OFF      |              | 0.1    | OFF     |              |            | OFF                  |
|   |          |      |        |          |              |        |         |              |            |                      |
| Main Control Output Contact                           |          |      | Clo    | sed      |              |        |         |              |            |                      |
| (Water leakage: COM-NO)                               | Open     |      |        |          | ON           |        |         |              |            |                      |
|   |          |      | Clas   | and      |              | Close  | ام.     |              |            |                      |
| Main Control Output Contact<br>(Abnormalitys: COM-NO) | Open     |      | Clos   | seu      | Open         | Close  | eu      | Open         |            |                      |
| (Abrioffialitys: COMPNO)                              | Ореп     |      |        |          | Орен         |        |         | Ореп         |            |                      |
| Individual Control Output Contatct                    |          |      | Close  | ed       |              |        |         |              |            |                      |
| (Water Leakage: COM-NO)                               | Open     |      |        |          | Open         |        |         |              |            |                      |
|   |          |      |        |          |              |        |         |              |            |                      |
| Individual Control Output Contatct                    | _        |      |        |          |              | Close  | ed      | _            |            |                      |
| (Break: COM-NO)                                       | Open     |      |        |          |              |        |         | Open         |            |                      |

### **Drawing 7 Operation Chart 1**

### **Buzzer Operation**

Pressing the buzzer stop switch can prevent the buzzer from sounding.

However, if the same circuit or other circuits give out the alarms again, the buzzer will re-sound.

To make the buzzer not alarm, set SW2 and Bit 8 of the CPU unit ON.

### Fail-safe function

If the fail-safe function is effective, the output contact is operated reversely.

## 4-2 Operation Chart When Alarm Hold Setting is Activated (Water leakage and break indication, main control output contact and individual control output contacts are set for alarm hold) For Operation Chart, refer to Drawing 8

|  |             | ON    |             |             |               |            |                 |          |        |                 |
|--|-------------|-------|-------------|-------------|---------------|------------|-----------------|----------|--------|-----------------|
| Power  | OFF         |       |             |             |               |            |                 |          |        |                 |
|  |             |       |             |             |               |            |                 |          |        |                 |
| Decision la diseate a LED                                    | l indution  | 4     | Lighting up |             |               |            |                 |          |        |                 |
| Power Indicator LED  | Lighting    | out   |             |             |               |            |                 |          |        |                 |
| Indicator LED Test Switch                                    |             |       |             |             |               |            |                 | ON       |        |                 |
| (Alarm Cancel Switch)  | OFF         |       |             |             |               |            |                 |          |        | OFF             |
| ( same same y  |             |       |             |             |               |            |                 |          |        |                 |
|  |             |       | ON          |             |               |            |                 |          |        |                 |
| Water leakage detection function                             | OFF         |       |             | OFF         |               |            |                 |          |        |                 |
|  |             |       |             |             |               |            |                 |          |        |                 |
|  |             |       | Lighting up | )           |               |            |                 | Flas     | shing  | twice           |
| Water Leakage Indicator LED                                  | Lighting    | out   |             |             |               |            |                 |          |        | Lighting out    |
|  |             |       |             |             |               |            |                 |          |        |                 |
|  |             |       |             |             | ON            |            | 1               |          |        |                 |
| Break detection function                                     | OFF         |       |             |             |               |            | OFF             |          |        |                 |
|  |             |       |             |             | Linkfor a con |            |                 | Flas     | shina  | twice           |
| Decels Indicator I CD  | و منافعات ا | 4     |             |             | Lighting up   |            |                 | 1 [      | ] [    | Lighting        |
| Break Indicator LED  | Lighting    | Out   |             |             |               |            |                 | ш        |        | out             |
|  |             |       |             | ON          |               | ON         |                 |          |        |                 |
| Buzzer Alarm Stop Switch                                     | OFF         |       |             | OFF         |               |            | OFF             |          |        |                 |
|  |             |       |             |             |               |            |                 |          |        |                 |
|  |             |       |             | Lighting up |               | Lighting u | ıp              | F        | lashir | ng twice        |
| Buzzer Stop Indicator LED                                    | Lighting    | g out |             |             | Lighting out  |            | Lighting<br>out |          |        | Lighting<br>out |
|  |             |       |             |             |               |            | •               |          |        |                 |
|  |             |       | ON          |             | ON            |            |                 | _        |        |                 |
| Buzzer Sounding  | OFF         |       |             | OFF         |               | OFF        |                 |          |        | OFF             |
|  |             |       |             |             |               |            |                 |          |        |                 |
| Main Control Output Contatct                                 | •           |       | Closed      |             |               |            |                 |          | _      |                 |
| (Water leakage: COM-NO)                                      | Open        |       |             |             |               |            |                 | 1        | Open   |                 |
|  |             |       | Closed      |             |               |            |                 |          |        |                 |
| Main Control Output Contatct                                 | 0           |       | Closed      |             |               |            |                 | ,        | Open   |                 |
| (Abnormality: COM-NO)  | Open        |       |             |             |               |            |                 | <u> </u> | Эрсп   | !<br>           |
| Individual Control Output Control                            |             |       | Closed      |             |               |            |                 |          |        |                 |
| Individual Control Output Contact<br>(Water leakage: COM-NO) | Open        |       |             |             |               |            |                 | (        | Open   | 1               |
| (17doi locitago: OOM 14O)                                    | Орон        |       |             |             |               |            |                 |          |        |                 |
| Individual Control Output Contact                            |             |       |             |             | Closed        |            |                 |          |        |                 |
| (Break: COM-NO)  | Open        |       |             |             |               |            |                 | (        | Open   | )               |

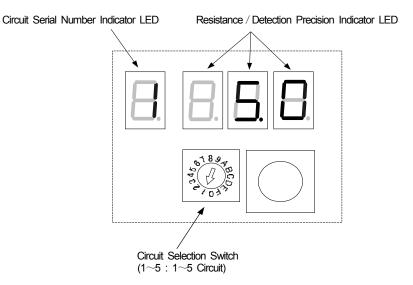
### **Drawing 8 Operation Chart 2**

When alarm holding is activated, the alarm status is held until the indicator LED test switch (alarm cancel switch) is pressed.

Electric power failure or power off, alarm holding is canceled.

<sup>\*</sup> When alarm holding is not set for Switch 1, 2 and 3, refer to Drawing 7 and Operation Chart 1.

### 5. Adjustment of Water Leakage Detection Precision



Drawing 9 Resistance/ Detection Sensitivity Indication

5-1 Adjustment Method (Refer to Attached Drawing 3, Attached Drawing 4 and Attached Drawing 5)

- 1) Rotate circuit selection switch to select the circuit required to be adjusted.
- 2) Set 1 of SW2 on the CPU unit ON to indicate detection precision. (Drawing 9 shows that the target detection precision of Circuit 1 has been set to 5.0  $\rm k~\Omega$ .)
- 3) Rotate the precision adjustment VR for the circuit required, observe the precision indication while adjusting the value required to be set. Clockwise rotation indicates that the precision is higher, and counterclockwise rotation indicates that the precision is lower.

The detection precision can be adjusted within the scope 2.0 k  $\Omega$   $\sim$  9.0 k  $\Omega$  $\pm$ 10% by interval. 0.5 k  $\Omega$ .

4) If the precision adjustment is completed, set 1 of SW2 at CPU unit to be OFF.

The detector of the company has been adjusted to be the standard precision (about  $5 \text{ k} \Omega$ ) according to the characteristic of the water leakage sensor (manufactured by our company) when dispatched from the factory. When it is required to change the detection precision, contact our company for confirmation.

### 6. Buzzer Setting

### 6-1 Buzzer Volume Setting

Perform volume adjustment through the volume adjustment VR of the display unit. (Refer to Attached Drawing 2) Clockwise rotation makes the volume to be increased and counterclockwise rotation makes the volume to be decreased.

When dispatched from the factory, the volume has been set as the maximum.

### 6-2 Buzzer Stop Setting

1) When alarm is given out, buzzer sounding is required to be stopped temporarily

When alarm is given put, press the buzzer stop switch, the buzzer stops, indicator LED lights up and the buzzer stops temporarily.

However, if the same circuit or other circuits alarms again, the buzzer stops, the indicator LED lights out and the buzzer sounds again.

When the alarms from all the circuits recover, the buzzer stops and the indicator LED lights out. (Refer to Operation Chart in Chapter 4)

2) When the buzzer is required to be set no sounding often

Set 8 of SW2 on the CPU to be ON. (Refer to Attached Drawing 5)

The indicator LED for buzzer stop lights up, and the buzzer is set to be no sounding.

| 7. Maintenance and Periodic Inspection  |
|---|
| ☐ When inspecting the facilities, conduct inspections in conformance with the operation check items described in            |
| Chapter 3.  |
| (Note) During inspection of the detector, the control output contacts are functioning, so if the control output             |
| contacts are used, adopt the measures such as underlay wiring in order not to affect other devices.                         |
| ☐ Be careful to prevent oil-based substances, such as wax, from adhering to the sensor; this may repel water and            |
| interfere with correct detector operation.  |
| ☐ If the sensor is tainted with water absorbing substances, electrically conductive dirty water, etc, replace it with a new |
| one.  |

### 8. Specifications

### 8-1. Ratings

For ratings, see Table 1.

Table 1 Ratings

| Item                            | Specification  |  |  |
|---------------------------------|--|--|--|
| Rated voltage                   | AC100-200V (common to 50/60Hz)                           |  |  |
| Range of fluctuation for supply | ±10% of the rated voltage                                |  |  |
| voltage                         |  |  |  |
| Power consumption               | 12VA or less   |  |  |
| Control output contacts         | *Check Section 8-3, control output contact specification |  |  |
| Applied voltage of sensor       | AC5.5V (maximum value)                                   |  |  |
| Working ambient temperature     | -10°C∼50°C (no icing)                                    |  |  |
| Working ambient humidity        | $35\sim$ 85%RH (no condensation)                         |  |  |

### 8-2 Performances

For performances, refer to Table 2.

Table 2 Performances

| Item                              | Specification  |  |  |  |
|-----------------------------------|--|--|--|--|
| Number of sensor circuits         | 5  |  |  |  |
| Water leakage detection precision | $5$ k $\Omega$ ±10% (set within the scope 2-9k $\Omega$ ± at an interval0.5 k $\Omega$ ) |  |  |  |
| Water leakage recovery precision  | (detection precision+2kΩ) ±10%   |  |  |  |
| Break judgment precision          | 30kΩ±10%   |  |  |  |
| Operating switch function for     | For the buzzer alarm stop purpose  |  |  |  |
| surface operation panel           | For the indication LED test use (alarm cancel)   |  |  |  |
| Surface operation panel LED       | Power source indication, red: 1contact (lighting up)                                     |  |  |  |
| indication                        | Water leakage indication red: 5 contacts (lighting up)                                   |  |  |  |
|                                   | Break indication red: 5 contacts (lighting up)   |  |  |  |
|                                   | Indication during buzzer stop red: 1 contact (lighting up)                               |  |  |  |
| Alarm buzzer                      | Maximum sound pressure: 70dB / 30 cm ( manufacturer product sample value) is adjustable  |  |  |  |
| Control output contact            | Contact  |  |  |  |
|                                   | configuratio Water leakage: 1c   |  |  |  |
|                                   | n Abnormality (water leakage or break): 1c   |  |  |  |
|                                   | <ul> <li>☐ Individual contact</li> <li>Water leakage: 1c×5</li> </ul>                    |  |  |  |
|                                   | Break: 1c×5  |  |  |  |
| Withstand voltage                 | AC1500V ( 50/60Hz ) / 1 minute   |  |  |  |
|                                   | (between the power source terminal and the body case)                                    |  |  |  |
| Insulation resistance             | 10 MΩ or above (with DC 500V Megger)/1 minute  |  |  |  |
|                                   | (between the power source terminal and the body case)                                    |  |  |  |
| Noiseproofng property             | ±1000V pulse width 1µSEC (noise simulator ) / 1 minute                                   |  |  |  |
|                                   | (between each phase and the grounding terminal)  |  |  |  |
| Outside dimensions                | (W)300×(H)330×(D)100 (unit: mm Refer to attached drawing 1)                              |  |  |  |
| Weight and color                  | * Does not include the raised portions of hinges and handles.                            |  |  |  |
| Weight and color                  | About 5.2kg, gray (5Y7 / 1 semi-gloss)   |  |  |  |

### 8-3 Control Output Contact Specifications

For control output contacts, see Table 3

Table 3 Control Output Contact Specifications

| <u></u>                 | olo o och u or ocupat contact opecin | <del>bation to</del>       |
|-------------------------|--------------------------------------|----------------------------|
| Item                    | Resistance load                      | Inductive load             |
| Rated load              | AC125V 0.4 A<br>DC 30V 2.0 A         | AC125V 0.2A<br>DC 30V 1.0A |
|                         | DC 30V 2.0A                          | DC 30V 1.0A                |
| Applicable minimum load | DC10mV 10µA                          | (reference value)          |

(Relay contacts: G6E-134P-US Catalogue values by OMRON Corporation)

