

BUSNET Contact output unit

BUS-D1

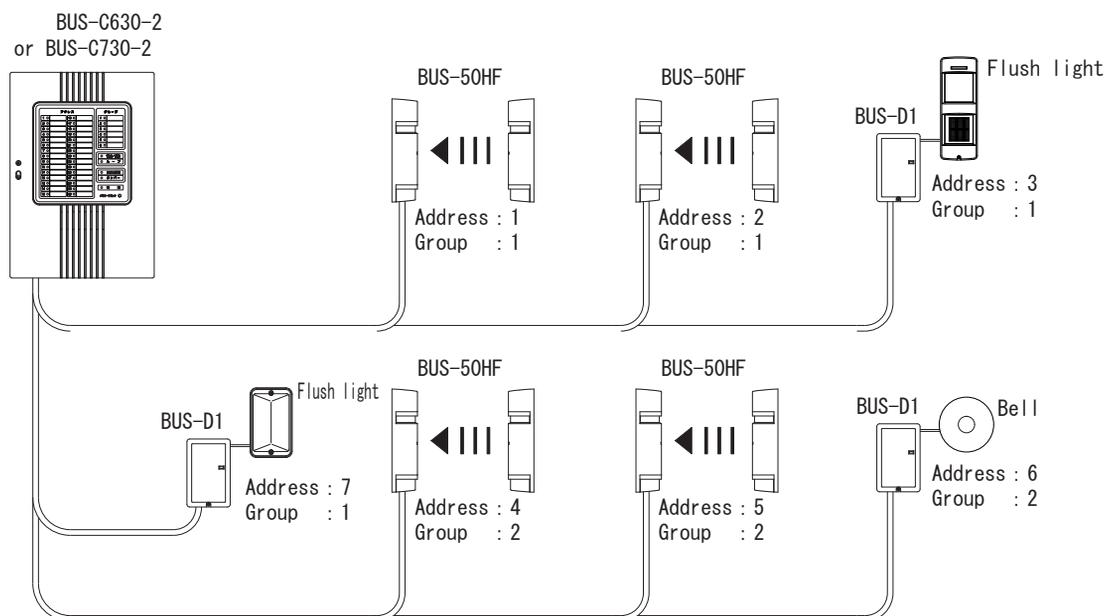
We appreciate your purchase of TAKEX model. Please read this manual carefully for correct and effective use.

1 Description

BUS-D1 is a contact output unit specially used for BUSNET system which is connected to our interface BUS-C630-2, BUS-C730-2. This unit receives the signal from interface and issue the output to move the other devices such as voice speaker and recording systems.

Configuration

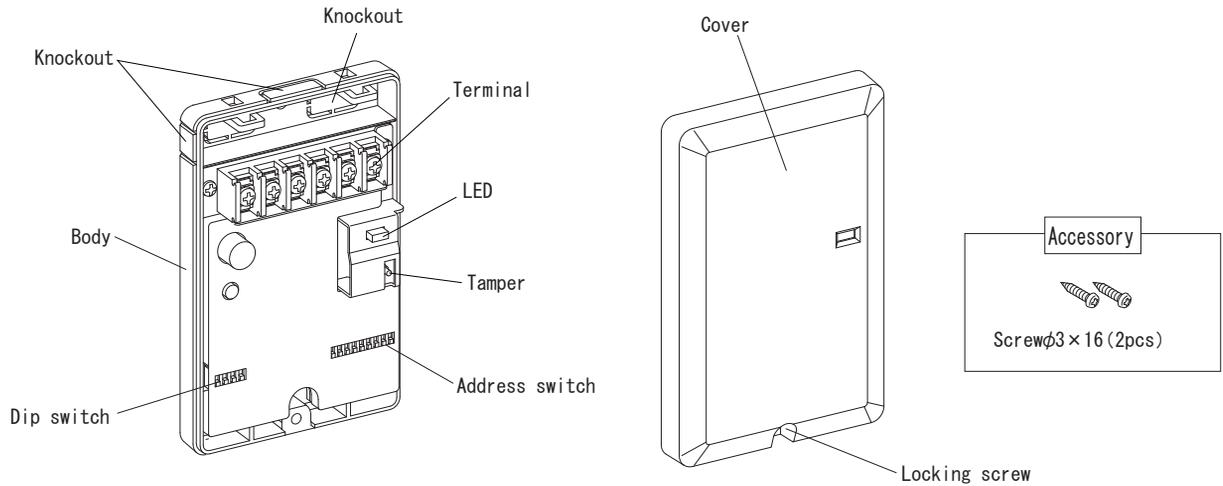
BUS-D1 can be registered by setting address and group, with the same procedure as other BUSNET devices. When the other sensors in the same group trigger, the BUS-D1 issues the output.



- ※The address is set by dipswitch individually. Group setting could be done by BUS-C630-2, BUS-C730-2.
- ※Power supply to each sensor to be arranged separately.

The example shown in above, 2 sets of BUS-50HF and 2pcs of BUS-D1 are registered into Group 1. When one of BUS-50HF in the group 1 is triggered, 2pcs of BUS-D1 in the same group issue outputs. In this case, another 2pcs of BUS-D1 in group 2 do not issue the outputs. When one of BUS-50HF in the group 2 is triggered, BUS-D1 in the same group issues output.

2 Description



3 Notice



Warning

● In the event of smoke or smell, immediately quit using the unit and return the model to the distributor. Otherwise it may cause fire, electric troubles.



● In case the water leakage into the unit, quit using the unit and contact the distributor.



● Do not use the unit where the humidity is high.



● Do not remodel the unit.



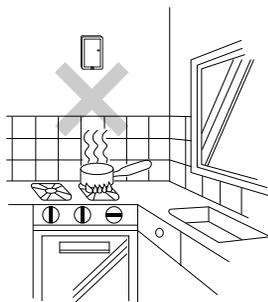
● Do not use power supply except designated voltage.



● Do not connect the device to this unit with more than designated contact capacity.



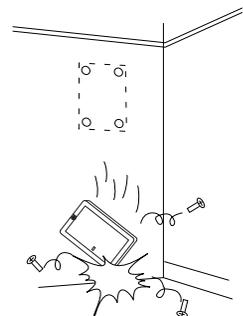
● Install the unit in a stable way. Otherwise it may fall down by its own weight.



● This unit is for indoor use only. Do not install in a high humid or rainy place.



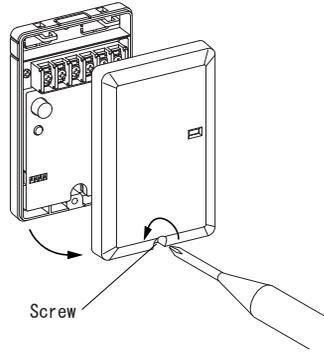
● Install the unit at higher than 1m so that children cannot touch it.



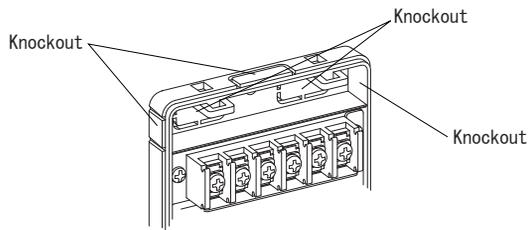
● Reinforce the stuff in case of installation on an unstable place.

4 Installation

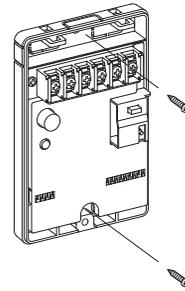
① Loosen the screw and open the cover.



② Penetrate the knockout according to the requirement.



③ Install the unit with the 2 pcs of screw.

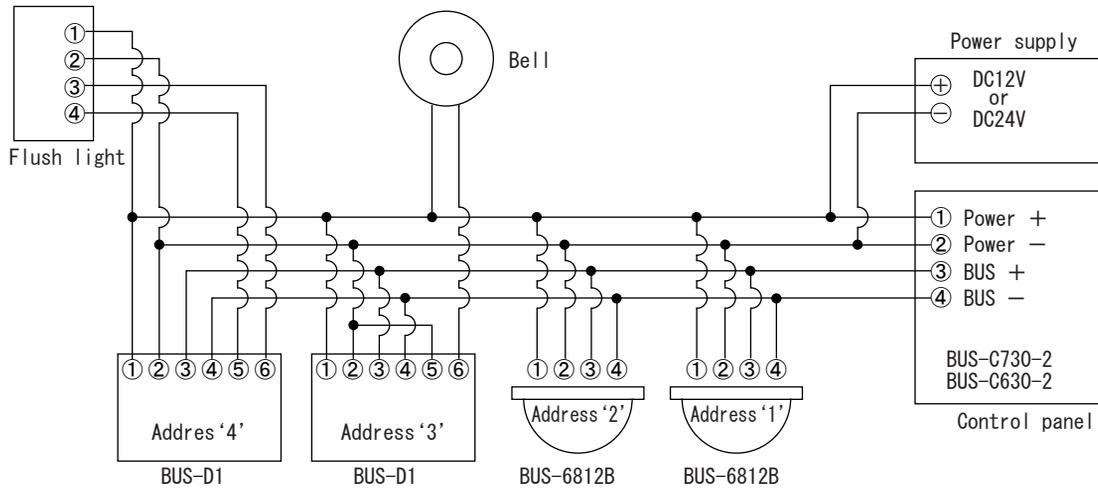
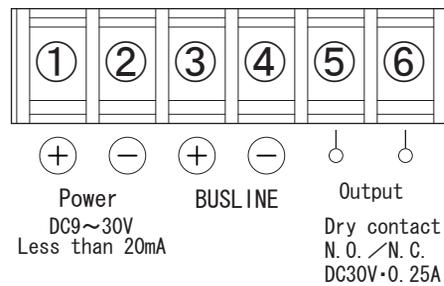


④ Arrange wiring.

⑤ Arrange setting the unit. (See para. 6)

⑥ Close the cover.

5 Wiring



★Notice

- Make sure about polarity of power line and signal line.
- Connect BUSLINE wiring in parallel in case the sensors are more than one.
- Set the address individually so that each sensor has a different address.
- Group setting : Group of the sensor and related BUS-D1 should be the same.
- Signal wiring : Wire should be thicker than $\phi 0.9\text{mm}$ (0.64mm^2) AE wiring. (just normal wire)
- Limitation of the distance of signal wiring : The farthest sensor should be within 1000m from control panel. Total wiring distance of all sensors should be within 4000m.

• Power line

Diameter	DC12V	DC24V
$\phi 0.9\text{mm}$ (0.64mm^2)	MAX. 2000m	MAX. 11000m

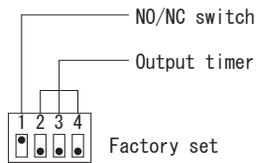
※Divide the distance by the number of sensor in case the number is more than one.

Sensors and BUS-D1 can be freely connected to the control panel subject the the total number of sensors and BUS-D1 is less than 30. (EX. the number of sensors - 29pcs, BUS-D1 - 1 piece, or vice versa, etc.)

*This unit operates only when BUS-C630-2 or BUS-C730-2 is under armed position.

6 Functions

(1) Switch



1. NO/NC switch

Select the output either NO/NC.



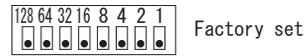
2. Output timer switch

In "Real time" setting, the output time corresponds to the alarm time of the sensor in the same group.

Even if there is 2nd alarm during output time, timer does not extend.

	2	3	4	
Real time	●	●	●	Real time
10s	●	●	○	10s
30s	●	○	○	30s
60s	●	●	○	60s
90s	○	○	○	90s
2m	○	○	○	2m
3m	○	○	○	3m
5m	○	○	○	5m

(2) Address switch



- 1) Set the address of BUS-D1 before operation. The address of each connecting sensor and BUS-D1 should not be same.
- 2) Register the BUS-D1 to the control panel before operation.

Setting

Add the all number whose dip switch is on the upper portion, and the added figure is its address.

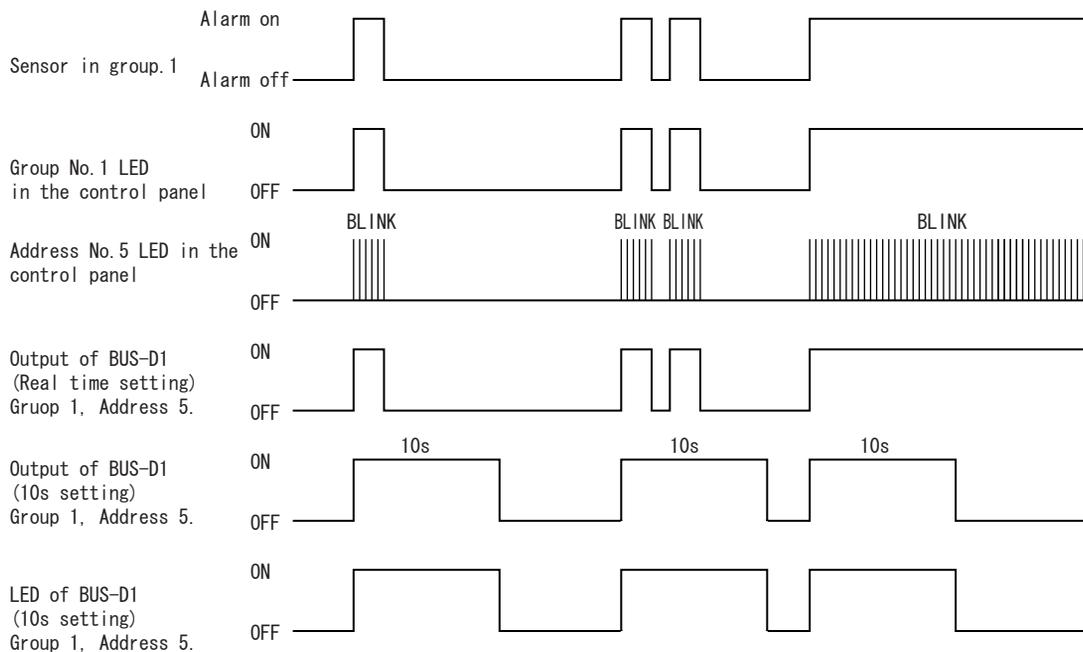
(EX.) $2+4+8=14$



※Address setting to be between 1 - 30.

7 Operation time chart

★BUS-D1 issues output contact when sensors in the same group triggers. However, when the control panel BUS-C630-2 or BUS-C730-2 is under disarmed position, BUS-D1 does not issue output contact even when sensors in the same group triggers.



8 Operation check

Set the control panel in OPERATION MODE, ARMED POSITION and trigger the sensor whose group is same as that of BUS-D1. Check if the output of BUS-D1 issues properly. Confirm the related ADDRESS LED of control panel blinks. (Same blinking occurs in the memory function.)

9 Checking

Conditions	Cause	Remedy
Not working at all (No LED operation)	<ul style="list-style-type: none"> ①Improper wiring ②Reverse polarity ③Registration failure ④Improper matching of the group ⑤The mode of control panel is "CHECK POSITION" 	<ul style="list-style-type: none"> ①Check the wiring ②Check the polarity ③Register to the control panel ④Match the group setting ⑤Set the mode in "OPERATION"
No output	<ul style="list-style-type: none"> ①Improper wiring ②Improper NO/NC setting ③The control panel is in disarmed position 	<ul style="list-style-type: none"> ①Check the wiring ②Check NO/NC setting ③Set the mode in ARMED position

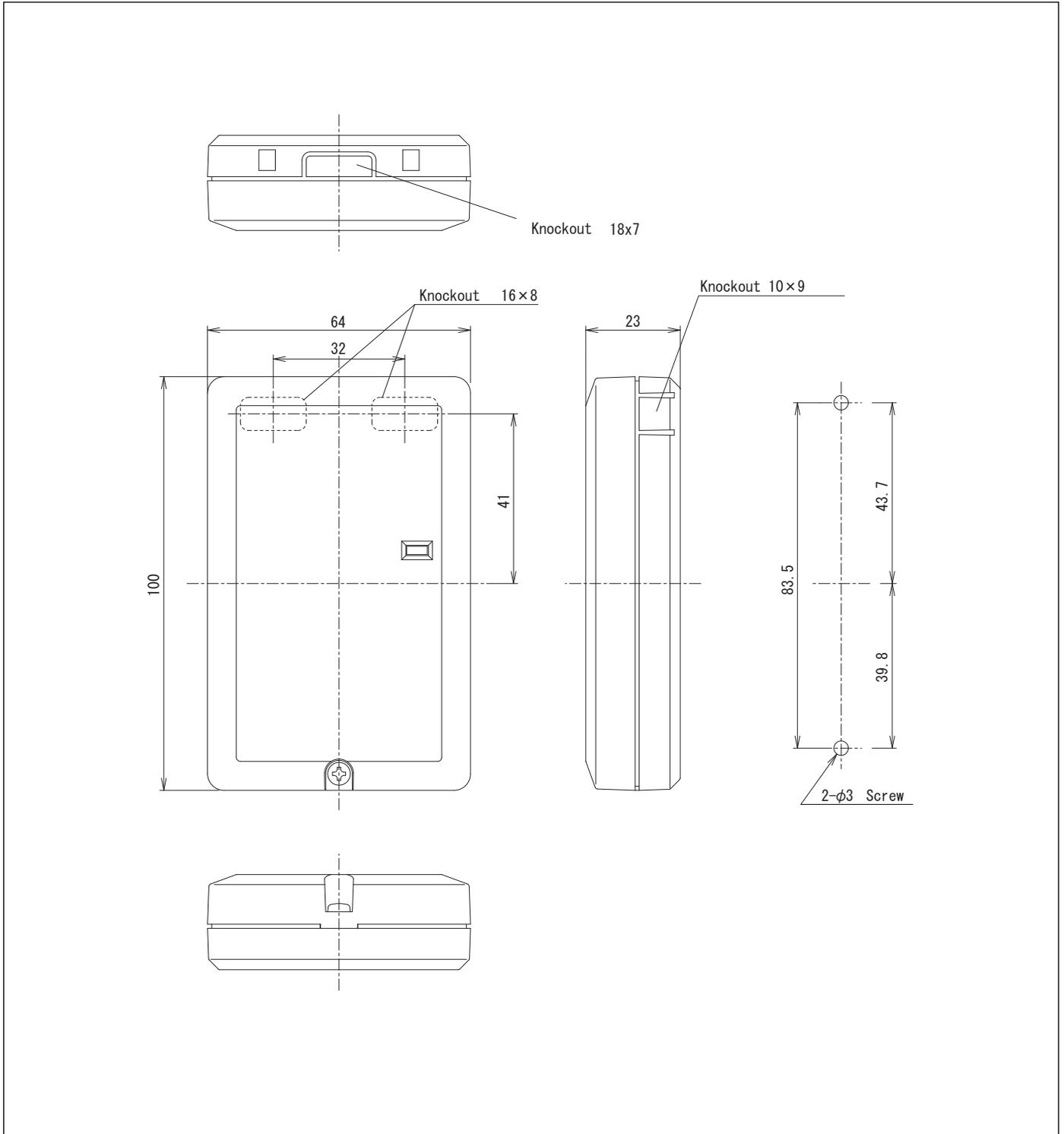
Daily checking

1. In case the unit is soiled, clean with a soft cloth moistened with a little soap water. Do not use thinner or alcohol.
2. Check the operation periodically once a week

10 SPEC.

Model	Contact output unit	
Model No.	BUS-D1	
Power supply	DC9~30V	
Current consumption	20mA	
BUS LINE	Signal transmission	Time division multiplex transmission
	Wiring φ0.9mmAE	Max. Distance : 1000m from control panel to BUS-D1 Max. number of connection in parallel : Unlimited Total wiring distance : 4000m
	Transmission speed	8~16msec/1 piece of sensor
Contact output	Dry output contact NO/NC selectable DC30V・0.25A	
LED	Orange LED is on when the unit is triggered	
Tamper	Triggered when the cover issues an output	
Wiring Connection	Terminal	
Ambient Temperature	-15°C~+55°C	
Installation site	Indoors	
Weight	80g	
Appearance	ABS Resin (White)	

11 Dimensions (mm)



Limited Warranty :

TAKEX products are warranted to be free from defects in material and workmanship for 12 months from original date of shipment. Our warranty does not cover damage or failure caused by Acts of God (including inductive surge by lightning), abuse, misuse, abnormal usage, faulty installation, improper maintenance or any repairs other than those provided by TAKEX. All implied warranties with respect to TAKEX, including implied warranties for merchantability and implied warranties for fitness, are limited in duration to 12 months from original date of shipment. During the Warranty Period, TAKEX will repair or replace, at its sole option, free of charge, any defective parts returned prepaid. Please provide the model number of the products, original date of shipment and nature of difficulty being experienced. There will be charges rendered for product repairs made after our Warranty period has expired.



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