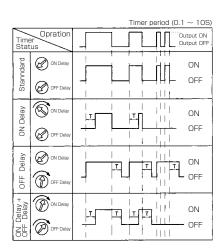


SPECIFICATIONS

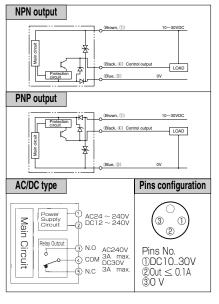
	AC/DC type	DC type	
Cable type	BGS-V2000(T)	BGS-V2000(N,P)	
Connector type	_	BGS-V2000(CN,CP)	
Detection distance	0.5-2	m *1	
detecting object	Opaque object		
Supply voltage	DC12~240V±10% AC24~240V±10% 50/60Hz	DC10~30V±10%	
Current consumption	5VA max.	50mA max.	
Response time	20ms max.	5ms max.	
Hysteresis	15% max.(on 1m)	5% max.(on 2m)	
Light Source	IR LED		
Sensitivity adjustment	Teaching button		
Timer function	ON/OFF Delay 1 \sim 10 sec.	_	
Indicator	Output indicator(orange LED), Stable incident indicator Green LED)		
Control output	Relay output 1c AC240V 3A max.	NPN/PNP Open collector	
Control output	DC30V 3A max.	DC30V 100 mA max.	
Operation mode	Light ON	Light ON Dark ON Selectable by switch	
Connection	Terminal base	Terminal base/M12 connector	
Insulation Resistor	20MΩ min. (DC500V)		
Withstand Voltage	AC2700V 1 minute	_	
Ambient temp./humidity	−25~55°C/35~95%		
Ambient light	Ambient light Sunlight: F10,000lx max. Incandescent lamp: 3,000 lx max.		
Protection category/Material	IP67 Case ABS Lens PC		
Weight	110g *2	95g *2	

*2 without cable * $\ ^{1}$ 0.5m \times 0.5m white paper

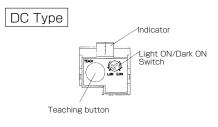
TIMER CHART

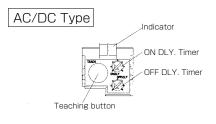


INOUT AND OUTPUT CIRCUIT DIAGRAMS



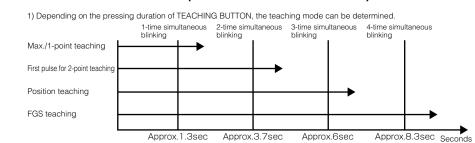
PARTS NAME





No timer type is only teaching button

TEACHING PROCEDURE (SENSITIVITY ADJUSTMENT)



*Sensitivity is set at Max. in default state

MAX. TEACHING (Max. sensitivity adjustment)

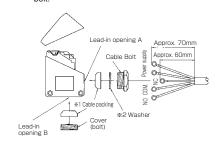
① Press the button without any objects/background.	Switching point
② Release the button after the indicators simultaneous	sly blink 1 time.
③ Teaching is complete.	

ONE-POINT TEACHING					
	Switching point				
① Press the button onto the background(Without objects).		Background			
② Release the button after the indicators simultaneously blink 1 time.		1			
③ Teaching is complete.	switching point is adjusted in the from	t of background.			

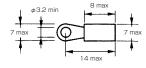
First point	Switching point
① Press the button until indicators simultaneously blink, 2 times. After	
blinking 2 times, release it.	
The first point is stored, and then the sensor turns to the input state	
for the second point starting simultaneous blinking of the indicators.	Switching point is adjusted at the middle
Second point	between the first and second point.
② Press the button (Any duration).	
The indicators simultaneous blink 2 times→Complete.	
The indicators alternately blink 3 times→Teaching error.	
Restart from the step①.	

HOW TO USE

- Install the cables to match the connection terminal No. as shown below.
- Ouse either lead-in opening A or B according to the installation method involv
- Install a Cover (bolt) at the lead-in opening not be
- (The figure below shows how the cables are installed when lead-in opening A is used.
- *2 Washer is to be used exclusively to the cable



Oimensions of applicable solderless terminals



- Use solderless terminals with insulating tube
- Use 6 to 10 mm diameter cables circular in section to maintain waterightness.

 Wrong wiring may be a cause of burned or damaged sensor. Pay due attention to wiring.
- Be careful not to inslall the cable near power lines.
- for otherwise the sensor may mulfunction.
 Using the mounting accessories supplied, the sensor can be installed on either floor or wall.

POSITION TEACHING

- ① Place the object onto light spot where the sensor should be ON, and
- 2 Release the button after the indicators simultaneously blink 3 times. ③ Teaching is complete (No OK sign appears).
- The indicators altermately blink 3 timesŮTeaching error. Restart from the step ①

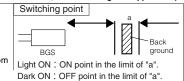
Teaching position of the object is switching point

Switching point

FGS TEACHING (FGS is a function that detecting range can be adjusted as desired, out of the range is suppressed.)

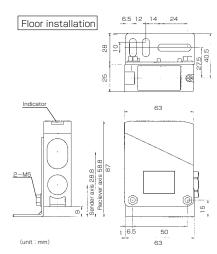
- ① Press the button onto the background(Without objects)
- 2 Release the button after the indicators simultaneously blink 4 time
- 3 Teaching is complete.

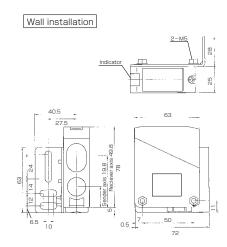
The indicators alternately blink 3 times-Teaching error. Restart from the step1.



1. Releasing the button the indicators simultaneously blink 1 time, the switching point is not stored (Exclude the second point teaching) 2. In case of teaching error, the sensor is automatically reset, and function with the previous state.

DIMENSIONS





OTHER PRECAUTIONS

- Be careful not to install the sensor at the following locations, as it may otherwise malfunctions
- Where a lot of dust, vapor, or the like is present.
- Where corrosive gas is produced.
 Where water, oil or the like flies directly onto the
- Where strong vibration or shock is caused to the
- ODo not use organic solvent, such as thinner, to remove contaminants from the body case, lid, and lens which are all of plastics. Using a dry rag, just
- iens which are all of plastics. Using a dry rag, just wipe clean.

 When a switching regulator is to be used with a power supply, be such to ground the Frame Ground Terminal.
- ODo not use the sensor in a transient state at power
- Do not use the sensor in a transient state at power on.(about 100ms)
 Do not run sensor cable near a high-voltage lines, or power lines or put them together in the same raceway. This warning should be strictly observed to prevent malfunctions caused by inductive
- Must not use this item as safety equipment for the purpose of human body protection.
- Specifications and equipment are subject to change without any obligations on the part of manufacture.
- For more information, questions and comments regarding products, please contact us below.

Manufactured and sold by:



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