

MANUFACTURER'S STATEMENT

For ease of installation and proper operation read through this manual (especially **WARNING**, **CAUTION**, **NOTE**) prior to installing and adjusting the sensor system. Failure to read and follow the instructions in this manual may cause improper sensor operation resulting in serious injury or death. This sensor is a non-contact activating switch intended for mounting on the ceiling.
Do not use the sensor for any other applications otherwise proper operation and safety cannot be guaranteed.

WARNING	Disregard of warning may cause the improper use causing death or serious injury of person.
CAUTION	Disregard of caution may cause the improper use causing injury of person or damage to object.
NOTE	Special attention for the setting and adjustment of section of this symbol is required.

- Set the door speed and verify proper operation of the door manufacturer's equipment prior to applying the power to the sensor system.
- Do not install the sensor where it might be directly sprayed with rainwater.
- Verify proper wiring prior to applying the power to the sensor system to prevent damage to equipment.
- When setting the sensor's detection area, make sure there is no traffic around the installation site.
- Do not attempt to disassemble, rebuild or repair sensor. Contact your installer or service engineer for replacement of sensor.
- Only use the sensor as specified in the supplied instructions.
- Walk-test the detection area to verify the operation is in compliance with all local laws, codes and standards of your country.
- Upon completion of installation and adjustments, instruct the owner/operator on proper operation of the door and sensor system.
- The use of switch as a safety auxiliary device is recommended for the threshold safety.

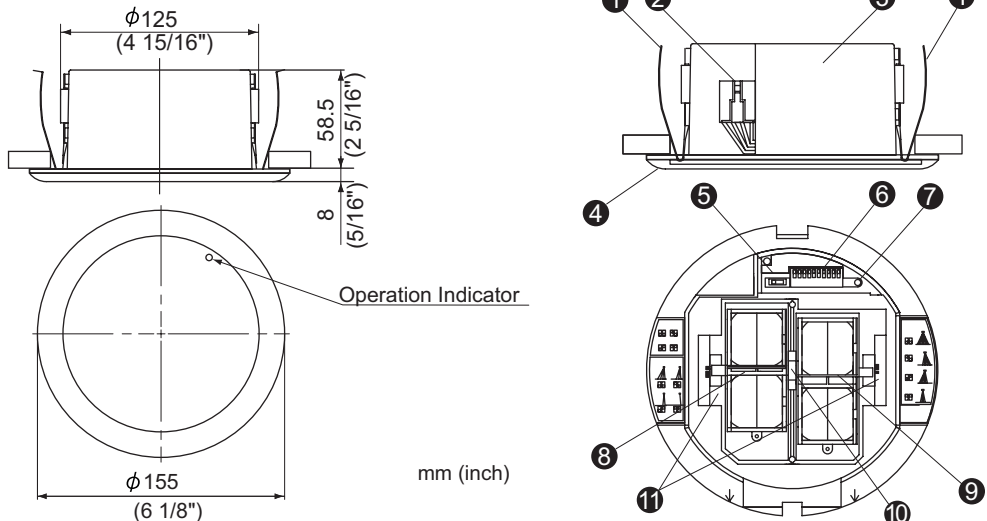
SPECIFICATIONS

Model	: OA-70C	Output	: "Form C" relay 50V 0.3A max. (resistance load)
Cover Colour	: Silver/White	Relay Hold Time	: Approx. 0.5 sec.
Mounting Height	: 2.0(6'6 3/4") to 4.0(13'1 1/2")m	Response Time	: <0.3sec
Detection Area	: See the chart in ADJUSTMENT	Operating Temperature	: -20°C to +55°C (-4° F to +131° F)
Detection Method	: Active Infrared Reflection	Weight	: 340g (12oz)
Detection Area	: Depth -6° to 8°	Accessories	: 1 Mounting Template, 1 Cable 3m(9'10"), 1 Operation Manual
Adjustments	: Width -10° to +10°		
Power Supply	: 12(-5%) to 24V(+10%) AC		
	: 12(-5%) to 30V(+10%) DC		
Power Consumption	: <4VA, <200mA(12VDC)		
Operation Indicator	: Green: Stand-by		
	: Red: 1st Row Detection Active		
	: Orange: 2nd-4th Row Detection Active		

The specifications herein are subject to change without prior notice due to improvements.

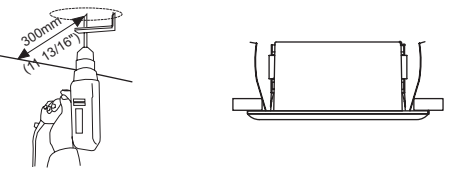
OUTER DIMENSIONS

NOTE Required ceiling thickness for mounting: 2 (1/16") to 24 (15/16") mm

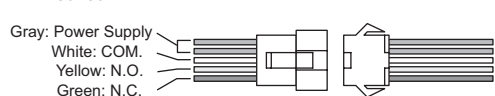


INSTALLATION

- Required ceiling thickness: 2 (1/16") to 24 (15/16") mm
1. Affix the Mounting Template to the sensor mounting position.
2. Drill a mounting hole (Recommended Diameter: 130mm (5 1/8"))
3. Remove the Mounting Template.

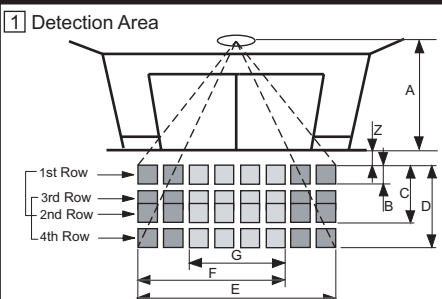


- Remove the cover from the sensor.
Plug the connector of the cable to the connector of the sensor.



NOTE Make sure to plug the connectors with each other firmly, the loose connection may result in imperfect contact and unstable operation of the sensor.

ADJUSTMENT (Turn on the power)

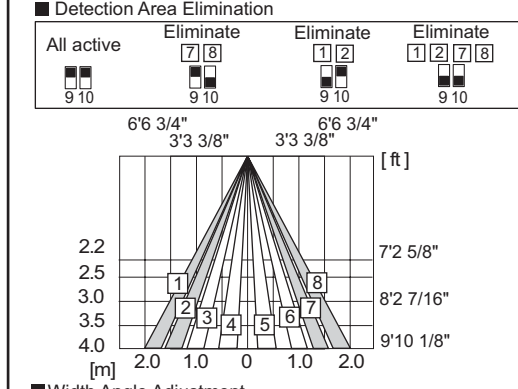


NOTE With factory setting, the 3rd and 4th Rows intersect with the 1st and 2nd Rows.

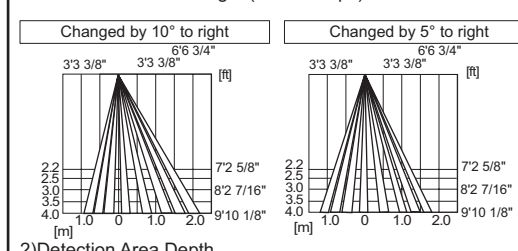
Area Dimensions		[mm / inch]				
Mounting height A		2200	2500	3000	3500	4000
		7'2 5/8"	8'2 7/16"	9'10 1/8"	11'5 13/16"	13'1 1/2"
Depth	B	390	440	530	620	710
		1'1 3/8"	1'5 5/16"	1'8 7/8"	2' 7/16"	2' 3 15/16"
C		770	860	1030	1200	1380
		2'6 5/16"	2'9 7/8"	3'4 9/16"	3'11 1/4"	4'6 5/16"
D		960	1090	1310	1530	1750
		3'1 13/16"	3'6 15/16"	4'3 9/16"	5' 1/4"	5'8 7/8"
Width	E	2200	2520	3030	3540	4040
		7'2 5/8"	8'3 3/16"	9'11 5/16"	11'7 3/8"	13'3 1/6"
F		1780	2030	2440	2850	3250
		5'10 1/16"	6'7 15/16"	8' 1/16"	9'4 3/16"	10'7 15/16"
G		1320	1500	1800	2100	2400
		4'3 15/16"	4'11 1/16"	5'10 7/8"	6'10 11/16"	7' 10 1/8"
Distance Z to the door		160	100	60	10	-20*
		6 5/16"	3 15/16"	2 3/8"	3/8"	-13/6"

The actual Detection Area may become smaller depending on the ambient light and the colour/material of person or object and the floor as well as the entry speed of object.
* When the mounting height is 4.0m, set the mounting position more than 300mm away from the door.

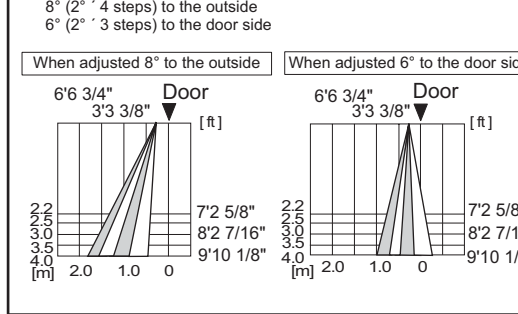
1) Detection Area Width



2) Detection Area Depth



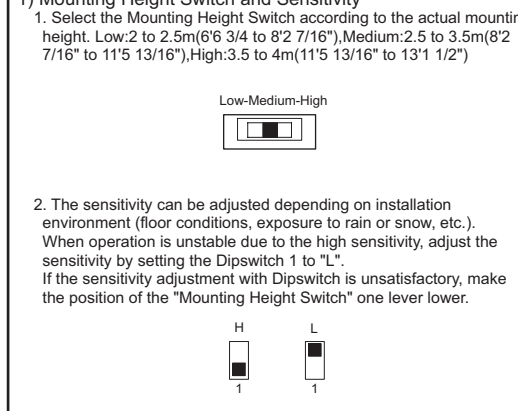
2) Setting Switches



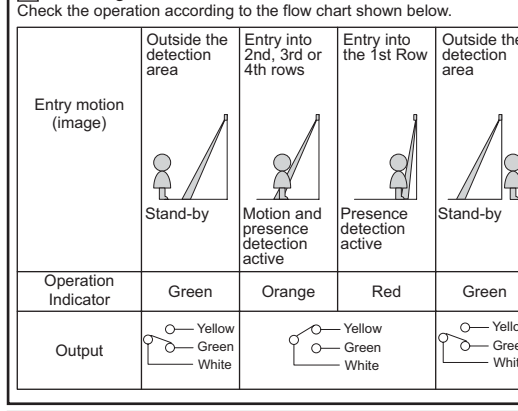
1) Mounting Height Switch and Sensitivity

1. Select the Mounting Height Switch according to the actual mounting height. Low: 2 to 2.5m (6'6 3/4" to 8'2 7/16"), Medium: 2.5 to 3.5m (8'2 7/16" to 11'5 13/16"), High: 3.5 to 4m (11'5 13/16" to 13'1 1/2")

2. The sensitivity can be adjusted depending on installation environment (floor conditions, exposure to rain or snow, etc.). When operation is unstable due to the high sensitivity, adjust the sensitivity by setting the Dipswitch 1 to "L". If the sensitivity adjustment with Dipswitch 1 is unsatisfactory, make the position of the "Mounting Height Switch" one lever lower.



3) Checking



INFORM BUILDING OWNER/OPERATOR OF THE FOLLOWING ITEMS

- When turning on the power, always walk-test the detection area to ensure proper operation.
- Always keep the detection window clean. If dirty, wipe the detection window with a damp cloth. (Do not use any cleaner or solvent.) Never paint the detection window.
- Do not wash the sensor with water.
- Do not disassemble, rebuild or repair the sensor yourself otherwise electric shock may occur.
- Always contact your installer or service engineer when changing the settings.
- Do not place an object that moves or emits light in the detection area. (e.g. plant, illumination, etc.)

TROUBLESHOOTING

Trouble	Possible Cause	Solution
Does not operate	Power supply is not adequate.	Adjust to the stated voltage.
	Connection failure.	Check the wiring and connector.
Does not operate consistently	Dirty detection window	Wipe the detection window lightly with a piece of cloth dampened by neutral detergent and wipe again with a piece of cloth dampened by water.
	Sensitivity is insufficient.	Set Dipswitch 1 (sensitivity) to "H."
Operates by itself (Ghosting)	Sensitivity is too high.	Set Dipswitch 1 to "L".
	The detection area overlaps with that of another sensor.	Set the different frequency for each sensor.
	The 1st Row spots overlaps with the door.	Adjust the detection area away from the door.
	Existences of the smoke or exhaust emission in the detection area.	Remedy the installation site conditions.
	Wet floor conditions in the detection area.	
Door stays open	Vibration of the sensor mounting surface.	
	Swaying objects or a heating radiator in the detection area.	
	Highly reflecting floor or the presence of highly reflecting objects in the detection area or nearby.	
	Presence detection is active due to a change in the detection area.	Set Presence Timer again. ⇒ Follow 2) Setting The Switches, 2) Presence Detection Timer. If the problem still persists, hard-reset the sensor. (Turn the power OFF and ON again).

Contact your installer or the service engineer if the trouble still persists after checking and remedying as described above.

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