

Swing Door Door Mounting Sensor



CE 5913001 2008.3

MANUFACTURER'S STATEMENT

For ease of installation and proper operation read thru 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 product is a non-contact activating switch intended for door mounted of an automatic door.

Do not use it 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.

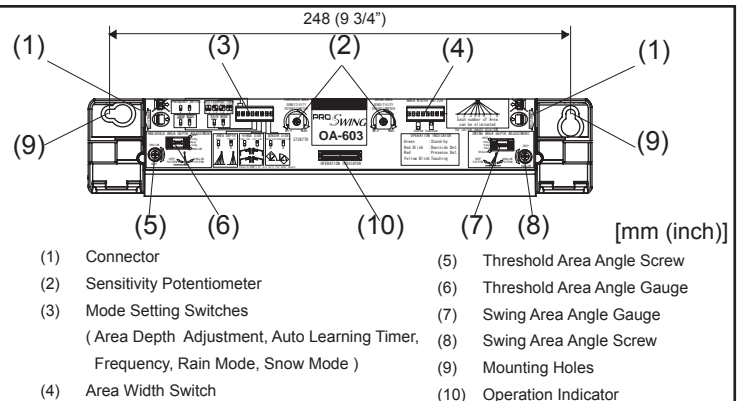
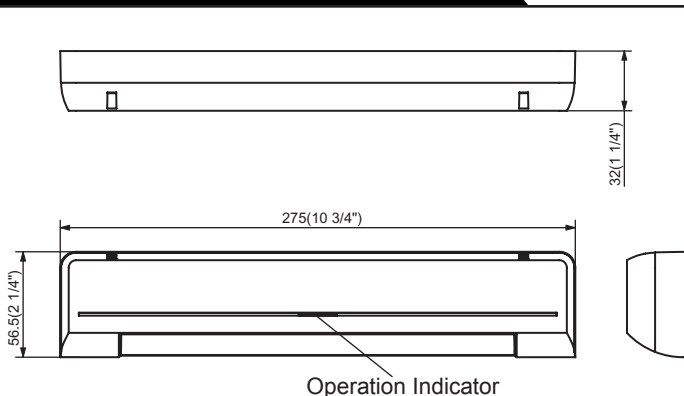
1. Set door speeds and verify proper operation of door manufacturer's equipment prior to applying power to the sensor system.
2. Do not install the sensor where it might be directly sprayed with rainwater.
3. Verify proper wiring prior to applying power to the sensor system to prevent damage to equipment.
4. When setting the sensor's area pattern, make sure there is no traffic around the installation site.
5. Do not attempt to rebuild or repair sensor heads or control unit. Contact an address in this manual for replacement products.
6. Only use the sensor as specified in the supplied instructions.
7. Walk test the installation to verify operation is in compliance with all local laws, codes and standards of your country.
8. Upon completion of installation and adjustments, instruct the owner/operator on proper operation of the door and sensor system. Identify any switches/breakers that will place the door out of service when unsafe or improper operation is identified.

SPECIFICATIONS

Model	: OA-603	Current Draw	: 120mA Max
Cover color type	: Black , Silver	Response Time	: < 0.3 second
Mounting Height	: 2.0m (6'7") to 2.5m (8'2")	Operating Temperature	: -20°C to +55°C (-4°F to +131°F)
Detection Area	: See the chart in "ADJUSTMENT".	Weight	: 230g (8.2oz.)
Detection Method	: Active Infrared Reflection (Presence Detection Type)	Accessories	: 1 Sensor Cable 0.2m(7") 9 Mounting screws 1 Operation Manual 3 Mounting Template
Detection Angle	: Threshold Area ±5° (Inside & outside)		
Adjustments	: Swing Area ±5° (Inside & Outside)		
Operation Indicator	: Green : Stand-by Blinking Red : Threshold Area Detection Active Red : Swing Area Detection Active Blinking Yellow : Learning		

Insure proper setting of Mode switch #8 indicating Approach side or Swing side sensor.

OUTER DIMENSIONS



INSTALLATION

Top View

Simultaneous Pair Shown in Diagram

Single Swing Sensor Settings:

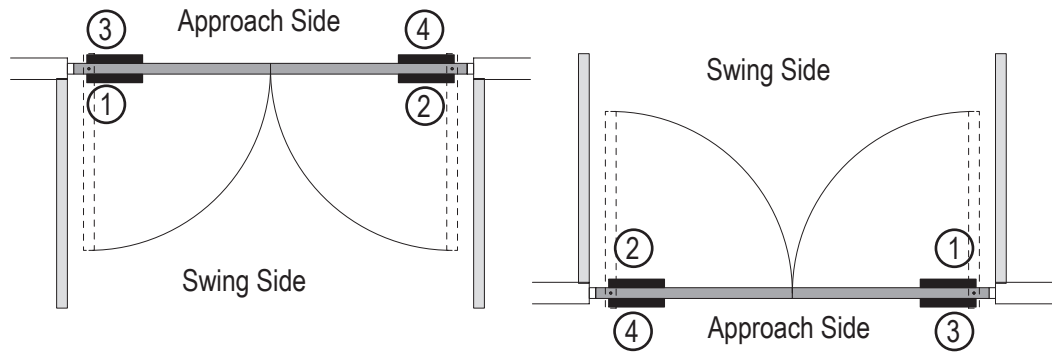
RH swing = 1 & 3

LH swing = 2 & 4

Double Egress Sensor Settings:

Both RH swings = 1 & 3 both door leaves

Both LH swings = 2 & 4 both door leaves



Sensor Setting

Please refer to the following for the setting of the DipSwitch.

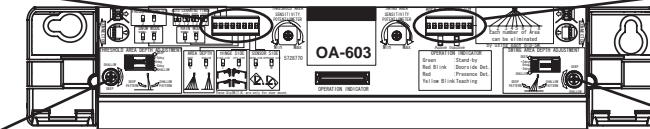
MODE SETTING SW
(LEFT DIPSWITCH)

AREA WIDTH SW
(RIGHT DIPSWITCH)

Set +5degrees



Threshold Area
Angle Screw



Adjust both angle screws (threshold and swing) **CLOCKWISE** to achieve **maximum angle for all door mount sensor**.

The screws will continue to turn even though maximum angle is reached as indicated by the angle gauges.

Set +5degrees



Swing Area
Angle Screw

! WARNING Insure proper setting of Mode switch #8 indicating Approach side or Swing side sensor.

DipSwitch Setting1

①

MODE SETTING SW (LEFT DIPSWITCH)	AREA WIDTH SW (RIGHT DIPSWITCH)	DOOR SIZE
		36 inch
		42 inch
		48 inch

DipSwitch Setting2

②

MODE SETTING SW (LEFT DIPSWITCH)	AREA WIDTH SW (RIGHT DIPSWITCH)	DOOR SIZE
		36 inch
		42 inch
		48 inch

DipSwitch Setting3

③

MODE SETTING SW (LEFT DIPSWITCH)	AREA WIDTH SW (RIGHT DIPSWITCH)	DOOR SIZE
		36 inch
		42 inch
		48 inch

DipSwitch Setting4

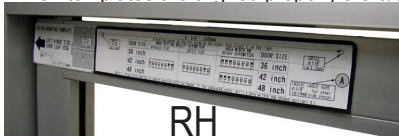
④

MODE SETTING SW (LEFT DIPSWITCH)	AREA WIDTH SW (RIGHT DIPSWITCH)	DOOR SIZE
		36 inch
		42 inch
		48 inch

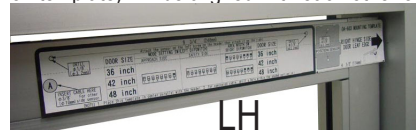
Step 1

1. Determine which side of door (swing or non-swing) door loop is to be installed. Align template to pivot edge of door accordingly. Affix template. Template height can be between 6'-7" to 8'-2" from floor to top of template.

NOTE When templates are aligned properly the 3/8" pass thru hole ("A" on template) will be aligned with each other on both sides of door.



RH



LH

2. On side of door the door loop is to be installed, drill two 1/8"(3.2mm) holes for position sensor mounting plate as indicated by template (one side of door leaf only).



3. Drill four sensor mounting holes (two on each side of door leaf, 1/8" or 3.2 mm) as indicated by templates.

4. Drill 3/8" holes for pass thru cable as indicated on templates.

NOTE Hole "A" on approach side template should be perfectly in line with hole "A" on swing side template.



Step 2

1. On the side of the door where the door loop is to be installed take a 603 sensor head and adjust the left and right dipswitch settings as indicated by the corresponding template. Verify Threshold and Swing angle adjustments are set to Deep (+5 degrees).

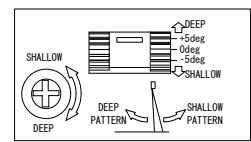
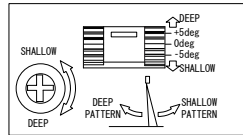
NOTE EACH TEMPLATE LOCATION WILL HAVE DIFFERENT DIPSWITCH SETTINGS.

2. Remove the template and attach the sensor head loosely to the door leaf with two of the nine supplied screws.

3. Align the position sensor mounting plate with the appropriate mounting holes and securely fasten to the door leaf with two mounting screws.

4. Go back and tighten the screws securing the 603 sensor head to the door.

5. On the opposite side of the door leaf, take a 603 sensor head and set the left and right dipswitch settings as indicated by the corresponding template. Verify Threshold and Swing angle adjustments are set to Deep (+5 degrees).

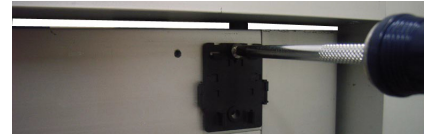


6. Remove the template and securely fasten the sensor head to the door using two mounting screws.

7. Repeat this process for each door leaf.

NOTE

These settings are optimal for most applications. However, operating conditions, environmental conditions and traffic flow may require changes to these settings. For in depth explanations of adjustments and dipswitch settings refer to the adjustment section (page 1-5) of this manual.



Step 3

1. To attach the position sensor/door loop to the base plate, route the sensor connector wire and change the direction of the wiring cover based on hinge location when facing the door (LH or RH see pictures below).



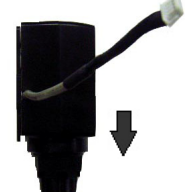
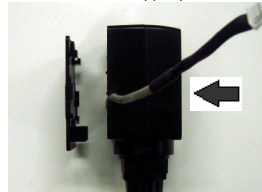
RH

Wiring Cover



LH

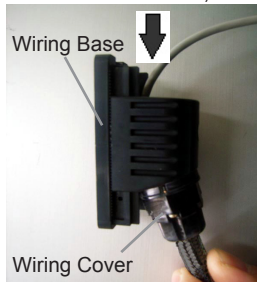
2. To attach to base plate locate the position sensor slightly high and to the side of the plate. Slide in horizontally and then down vertically. Push it from the upper part a little. Slide it from the upper part downward.



Step 4

1. To properly locate the door jamb wiring base, slide the wiring cover on to the wiring base and center it from top to bottom.

2. Hold wiring base on jamb rotate door from closed to full open. Ensure no excessive stretching or binding of the loop occurs (may need to move base up or down to achieve.) Mark top of wiring base to align mounting template later.



Wiring Base

Wiring Cover



Making top of Wiring Base



Step 5

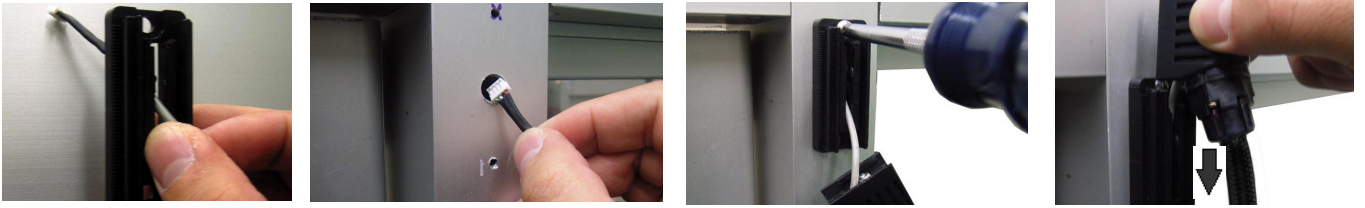
1. Align and affix top of template with mark achieved in step 4..

2. Drill two 1/8" (3.2mm) mounting holes. Drill 3/8" (10mm) hole if routing cable thru jamb for concealed wiring (3/8" hole not required for surface wiring applications).

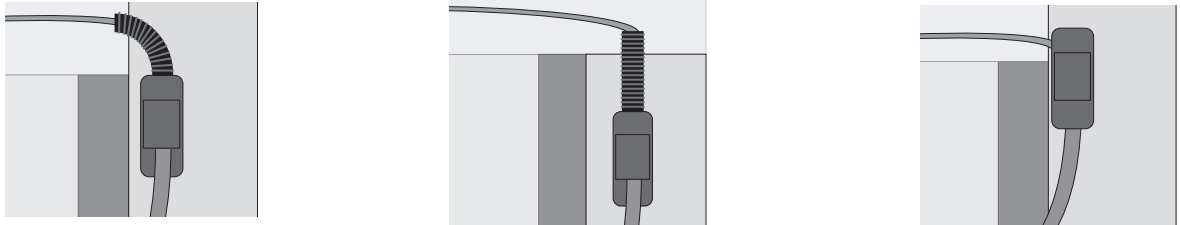


Step 6

1. For concealed wiring feed the connector thru the wiring base and then the 3/8" cable hole and into the header. For surface wiring (see note below) do not route wire thru the wiring base.
2. Properly position and securely fasten the wiring base to the jamb (small screw located on side of wiring base indicates bottom of base).
3. Feed the remainder of the cable thru the base and into the header then slide the wiring cover onto the wiring base from the top down.



NOTE Examples of surface wiring. Supplied flexible wire shroud is cut to fit on site.



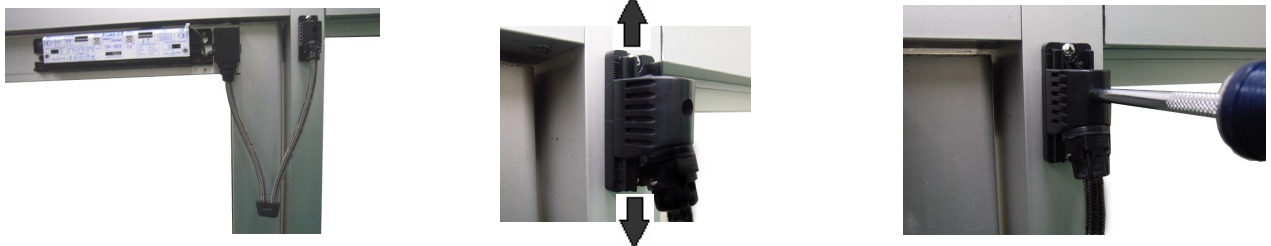
Step 7

1. Temporarily position the wiring cover on the center of the base vertically.



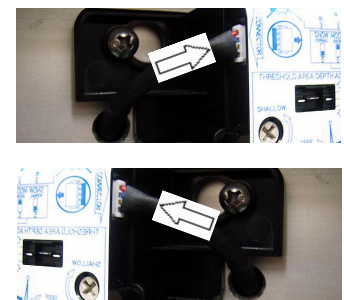
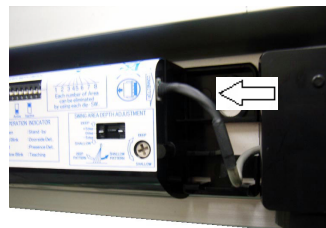
Step 8

1. Open and close the door leaf to determine the best location for the wiring cover on the base plate. On applications where the loop is mounted on the swing side, make sure the loop does not touch the door panel throughout the door travel.
2. Once the ideal position is determined, turn the screw in the back of the cover clockwise to secure the cover in place.



Step 9

1. Remove knockouts for OA 603 sensor cover on loop side only!
2. Connect the cable from position sensor to the OA-603.
3. Connect pass thru cable to both OA-603 sensor heads.



Step 10

Complete wiring of OC-904 and perform initial setup. Refer to OC-904 instruction manual and Wiring Matrix for wiring details. Refer to Elite manual (page 1-6) for initial setup details. Once complete return to step 11.

Step 11

Place the cover on the top then fit it on.

How to remove the cover

Hold the top and remove the cover.



Insert the flathead screw driver and push it down as shown in the picture.



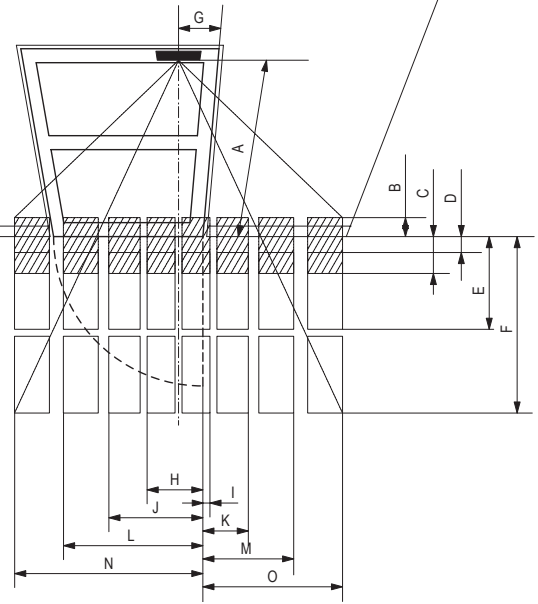
NOTE If desired, sensor covers can be left off until initial setup and final adjustments are performed.

ADJUSTMENTS

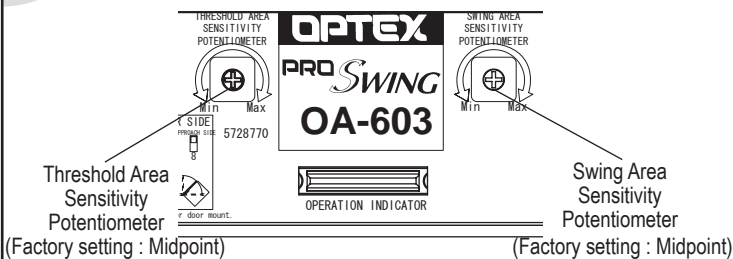
The sensor pattern shown is when the Swing & Threshold area depth adjustments are set to 5 degrees. When the sensor system performs an initial setup to its operating environment detection areas may vary slightly from this chart.

A	2000 (6'7")	2300 (7'6")
B	186 (7")	214 (8")
C	360 (1'2")	414 (1'4")
D	152 (6")	175 (7")
E	840 (2'9")	966 (3'2")
F	1650 (5'5")	1898 (6'2")
G	252 (10")	
H	593 (1'11")	645 (2'1")
I	89 (3")	141 (6")
J	911 (3')	1010 (3'4")
K	407 (1'4")	506 (1'8")
L	1275 (4'2")	1428 (4'8")
M	770 (2'6")	924 (3')
N	1684 (5'6")	1900 (6'3")
O	1180 (3'10")	1395 (4'7")

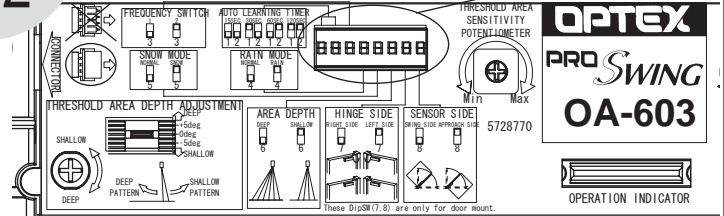
Sensor Pattern



1 Adjusting the Sensitivity



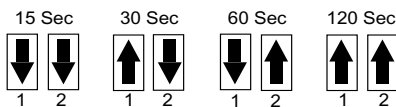
2 Mode Dipswitch Settings (Left Bank)



- 1,2: Auto Learning Timer
3: Frequency
4: Rain Mode
5: Snow Mode

2-1 Setting the Auto Learning Timer

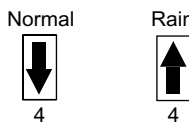
- Select the Auto re-learning time.
- Turn the power on.
- Wait for 15 seconds to complete the initial setting.
(Factory setting : 30sec)



NOTE Prior to initial set up set learn time to 30seconds or longer.

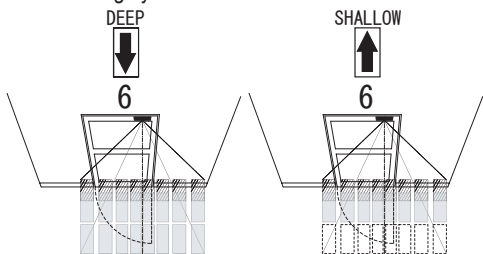
2-3 Setting the Rain Mode

Set this switch to Rain if the sensor is used in a region with a lot of rain.



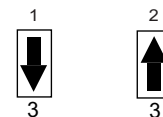
2-5 Setting the Area Depth

Change this switch to SHALLOW if false detections occur from cross traffic/side traffic/or close by objects. In SHALLOW Mode the shallow pattern is applied only during the opening and closing cycles.



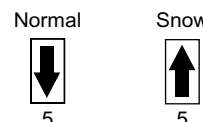
2-2 Setting the Frequency Function (Interference Prevention)

Two different frequencies can be set by adjusting Dipswitches 3. When two or more sensors are mounted close to each other, they may interfere. When that happens, change Frequency.



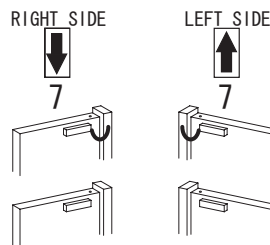
2-4 Setting the Snow Mode

Set this switch to Snow if the sensor is used in a region with snow or a lot of insects.



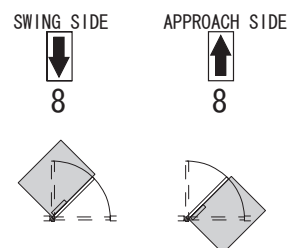
2-6 Setting the Hinge Side

When facing the OA-603 sensor head, if the hinge is to the right of the sensor set dipswitch to "RIGHT SIDE". If hinge is to the left of the sensor set the dipswitch to "LEFT SIDE".



2-7 Setting the Sensor Side

If you install the OA-603 sensor head on swing side, choose 'SWING SIDE', if non-swing side, choose 'APPROACH SIDE'.



CAUTION Sensor system does not operate when these Dipswitches are set the same on both sides of door.

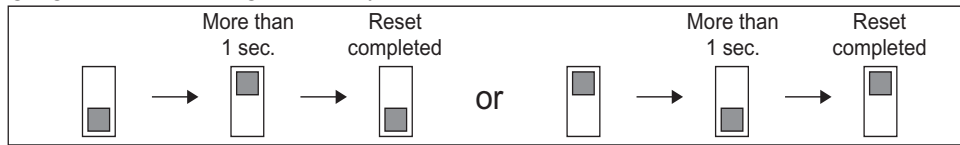
Auto learning function

This sensor has the function to fit floor condition changes **automatically**.

Therefore, even if objects are put in the detection area, sensor will learn the changes gradually and set back to normal operations automatically after several detections.

How to initiate a setup

When changing sensor settings, put any OA-603 DipSW to ON/OFF for more than 1 second.



CHECKING

Setup Process

This sequence must occur when power is applied for the first time or when initiating setup.

Door Status	Sensor Status	Operation Indicator		OC-904 Operation Indicator
		Swing Side	Approach Side	
	Initial Setup door closed	Yellow Blinking ↓ Solid Yellow	Yellow Blinking ↓ Aproximately 8sec.	Blinking Green ↓ Solid Green
 Do not enter the detection area, untill indicator turn to solid yellow.	Waiting for next learning	Solid Yellow	Solid Yellow	Solid Green
	Activate door to learn opening cycle	Blinking Yellow	Solid Orange	Blinking Green
	Learning Full Opened Cycle	Blinking Yellow	Solid Orange ↓ Blinking Red ↓ Blinking Yellow ↓ Aproximately 8sec.	Blinking Green ↓ Solid Orange
	Learning Closing Cycle	Blinking Yellow	Blinking Yellow	Solid Orange
	Setup complete approximately 3sec. after full closed	Solid Green (See Note)	Solid Green (See Note)	Solid Green

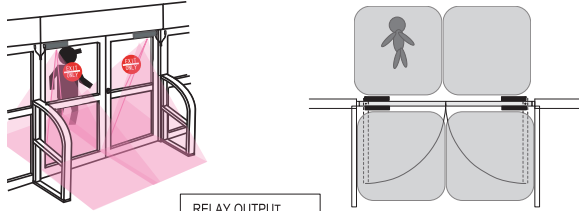
NOTE At full closed if setup does not complete in less than 5 seconds initiate setup again.

CHECKING

Operation Check

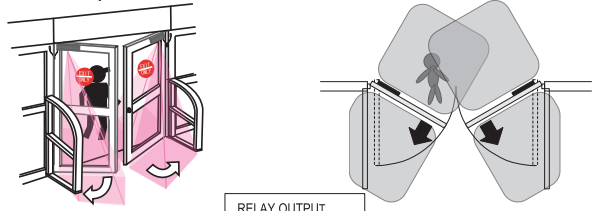
Before leaving the site, check five items in the right table.

Entering to approach side at full closed position.



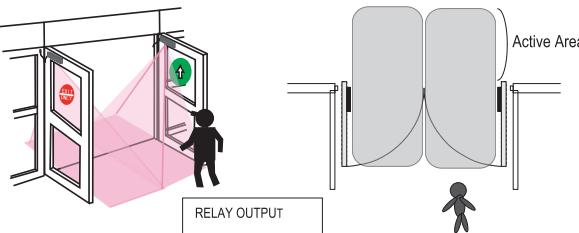
RELAY OUTPUT
ACTIVATE : ON
SAFETY : OFF
STALL : OFF

Doors open.



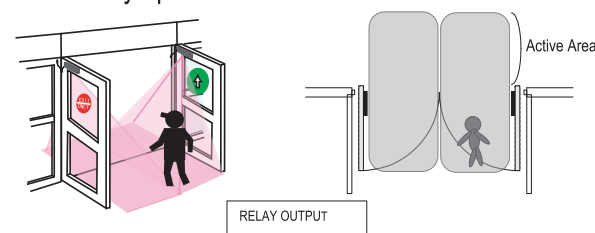
RELAY OUTPUT
ACTIVATE : ON
SAFETY : OFF
STALL : OFF

Entering to the door at full open position.



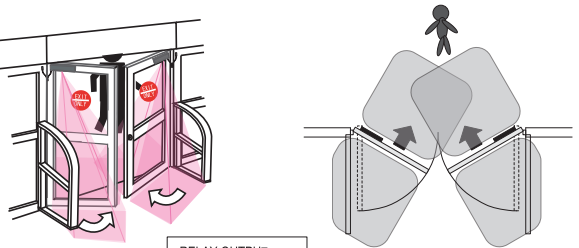
RELAY OUTPUT
ACTIVATE : ON
SAFETY : OFF
STALL : OFF

Doors stay opened.



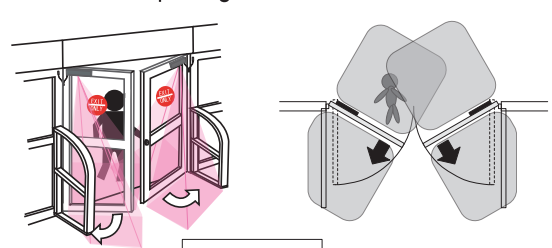
RELAY OUTPUT
ACTIVATE : ON
SAFETY : OFF
STALL : OFF

Entering to approach side during closing cycle.



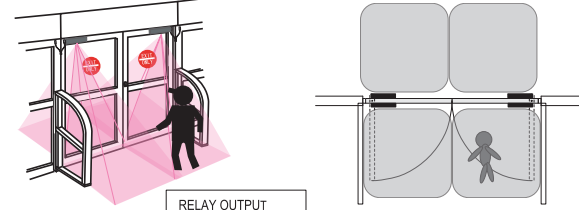
RELAY OUTPUT
ACTIVATE : OFF
SAFETY : OFF
STALL : OFF

Doors start re-opening.



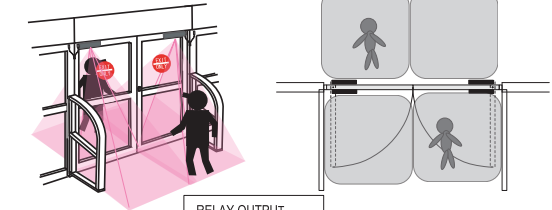
RELAY OUTPUT
ACTIVATE : ON
SAFETY : OFF
STALL : OFF

Entering to swing side at full closed position.



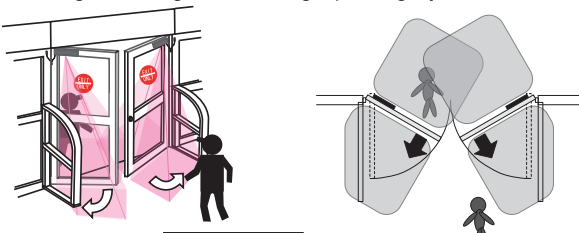
RELAY OUTPUT
ACTIVATE : OFF
SAFETY : ON
STALL : ON

Doors do not open.



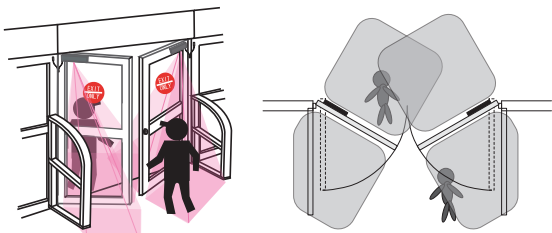
RELAY OUTPUT
ACTIVATE : ON
SAFETY : ON
STALL : ON

Entering to swing side during opening cycle.



RELAY OUTPUT
ACTIVATE : ON
SAFETY : OFF
STALL : OFF

Doors stall.



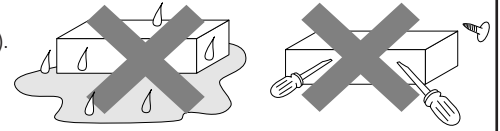
RELAY OUTPUT
ACTIVATE : ON
SAFETY : ON
STALL : ON

NOTE

Once the door reverses, swing side door will be active again.

Advise the building owner/operator of the following items

1. When turning the power on, stay clear of detection area for a minimum of 10 seconds then walk test detection area to ensure proper operation.
2. Always keep the detection window clean. If dirty, wipe the window with a damp cloth (Do not use any cleaner or solvent).
3. Do not wash the sensor with water.
4. Do not disassemble, rebuild or repair the sensor yourself; otherwise electric shock may occur.
5. Contact your installer or the sales engineer if you want to change the settings.
6. Do not place an object that moves or emits light in the detection area.(ex. Plant, illumination etc..)
7. Do not paint the Detection Window.



TROUBLE SHOOTING

Symptom	Possible cause	Solution	
CANNOT INITIATE SETUP Moving dipswitch on OA-603 does not result in OA-603 LED fast flash yellow.	OC-904C no LED indication	Improper power supply Bad connection on Orange and Brown wires of OC-904	Correct power problem Repair bad connection
	OC-904C LED double orange flashing & no LED indication on OA-603	Bad connection at OC-904	Reseat 4 pin connector from Loop assy to OC-904
		Bad connection from loop assy To OA-603 sensor head	Reseat 4 pin connector from loop assy to OA- 603 sensor head
		Bad connection with 7" pass thru cable	Reseat connection of 7" cable to both OA-603 sensor heads
OC-904 LED double orange flashing & erratic LED on OA-603 sensors	Bad 7" cable	Replace as necessary	
WILL NOT COMPLETE INITIAL SETUP	Switches 7 & 8 of left dipswitches on OA-603 sensors set wrong	Correct dipswitch settings see pg 1-2	
	OC-904 dipswitches set wrong	Check Connection Matrix for proper dipswitch settings	
	Poor or improper connection of yellow wires from OC-904 to door control	Check Connection Matrix for proper connection of yellow wires	
INTERMITTENT RECYCLE (ghosting) OR INTERMITTENT STALLING	Improper voltage on red & black wire of OC-904	Ensure positive voltage on red wire at hold open and 0 voltage at closed position	
	After initial setup door ghosts several times on first activation	Happens on 15% of installations If stops after first activation, system is OK	
	OA-603 sensor head not mounted flush on door	Head may be resting on top of loop mounting bracket Reposition head flush on panel	
	Improper threshold or swing area angle adjustment	Set threshold and swing area angles at +5 degrees (deep)	
	Improper voltage on red & black wire of OC-904	Ensure positive voltage on red wire at hold open and 0 voltage at closed position	
	Stalling caused by traffic just outside of swing path or objects near guide rails	Set switch 6 on left bank dipswitch of OA-603 on/up (shallow) Note: moving the dipswitch will initiate a setup	
	Area width dipswitches set wrong (right bank dipswitches on OA-603)	Verify proper settings (page 1-2)	
NO ACTIVATION AND/OR NO REACTIVATION ON CLOSING CYCLE	Inconsistent data from position sensor/loop assy	Position the loop assy so loop center coupler does not rest on door at any point of door travel	
	OC-904 yellow wires poor or improper connection to door control or on/off/hold switch	Verify proper connection and output of yellow wires. (see Elite Connection Matrix)	
	OC-904 dipswitches set improperly	Verify proper settings(see Elite Connection Matrix)	
NO SAFETY ON SWING SIDE AT FULL CLOSED	On knowing act applications poor or improper connection of purple wires from OC-904 to activation device	Verify good and proper connection (see OC-904 install manual)	
	OA-603 sensor detects (solid or flashing red LED) but door opens anyway	Poor or improper connection of Blue wires from OC-904 to door control OC-904 dipswitches set improperly	Verify good and proper connection of blue wires (see Elite Connection matrix) Verify proper settings (see Elite Connection Matrix)
NO STALL ON SWING SIDE WHILE DOOR IS OPENING	OA-603 no detection (solid green LED)	Area width dipswitches set wrong (right bank dipswitches on OA-603)	Verify proper settings (page 1-2)
	OA-603 sensor detects (solid or flashing red LED) but door does not slow or stop	Poor or improper connection of green wires from OC-904 to door control OC-904 dipswitches set improperly	Verify good and proper connection of Green wires (see Elite Connection matrix) Verify proper settings (see Elite Connection Matrix)
DOOR REMAINS OPEN	OA-603 no detection (solid green LED)	Area width dipswitches set wrong (right bank dipswitches on OA-603)	Verify proper settings (page 1-2)
	OC-904 dipswitches set improperly	Verify proper settings (see Elite Connection Matrix)	
DOOR REMAINS OPEN	On knowing act applications poor or improper connection of purple wires from OC-904 to activation device	Verify good and proper connection (see OC-904 install manual)	
	Improper wiring of door equipment on/off/hold switch	Verify proper wiring of on/off/hold switch	

Warning Indication (OA-603 Sensor head)

Mode	Self Monitoring Function	Life cycle Notification	Signal Saturation	Communication Error	Setting Error
Operation Indicator	Fast Green Blinking 	Twice Green Blinking 	Slow Green Blinking 	Twice Orange Blinking 	Fast Orange Blinking
Explanation	The sensor is reaching the end of its life cycle.	The relay is reaching the end of its life cycle.	Either the mounting position is too low or the detection area includes the wall or another object. OA-603 threshold angle may be set to less than +5 degrees deep. Refer to "ADJUSTMENT".	The sensor cable is connected, but unstable communication. A sensor cable may be disconnected or OA-603 mode switches 7 & 8 may be set wrong. Refer to "ADJUSTMENT"	When all the area width switches are inactive. Refer to "ADJUSTMENT".

Contact your installer or the sales engineer if:
 - you need to change the settings or replace the sensor.
 - the trouble still persists after checking and remedying as described above.

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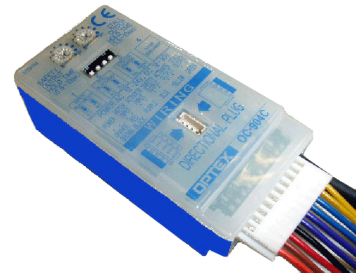
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OC-904C

CE 5913001 2008.3

Swing Door Sensor Controller



MANUFACTURER'S STATEMENT

For ease of installation and proper operation read thru 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 product is a non-contact activating switch intended for door mounted of an automatic door.

Do not use it 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.

1. Set door speeds and verify proper operation of door manufacturer's equipment prior to applying power to the sensor system.
2. Do not install the sensor where it might be directly sprayed with rainwater.
3. Verify proper wiring prior to applying power to the sensor system to prevent damage to equipment.
4. When setting the sensor's area pattern, make sure there is no traffic around the installation site.
5. Do not attempt to rebuild or repair sensor heads or control unit. Contact an address in this manual for replacement products.
6. Only use the sensor as specified in the supplied instructions.
7. Walk test the installation to verify operation is in compliance with all local laws, codes and standards of your country.
8. Upon completion of installation and adjustments, instruct the owner/operator on proper operation of the door and sensor system. Identify any switches/breakers that will place the door out of service when unsafe or improper operation is identified.

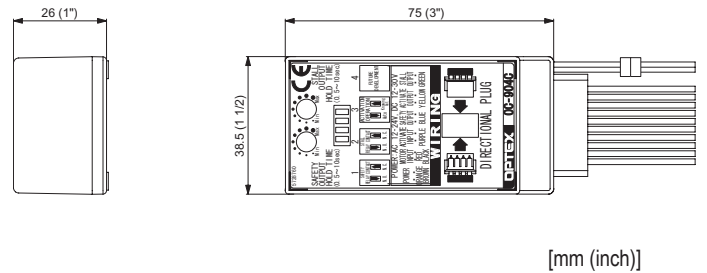
SPECIFICATIONS

Power Supply	12 - 24V AC, 12 - 30V DC
Current Draw	500mA max.*
Output	Activate Output : Form A Relay 50V, 0.1A(Resistance Load) Safety Output : Form C Relay 50V, 0.1A (Resistance Load) Stall Output : Form C Relay 50V, 0.1A (Resistance Load)
Relay Hold Time(Safety&Stall Output only)	0.5 to 10s
Response Time	< 0.3s
Operation Indicator	Green: Standby Red: Door Opening Orange: Lockout
Operating Temperature	-20 - +55degrees (-4F - +131Fdegrees)
Weight	50g (1.8oz.)
Accessories	1 Two sided tape 2 T-tap connector

*When a unit of the 2 OA-603 and 1 OC-904C used.

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

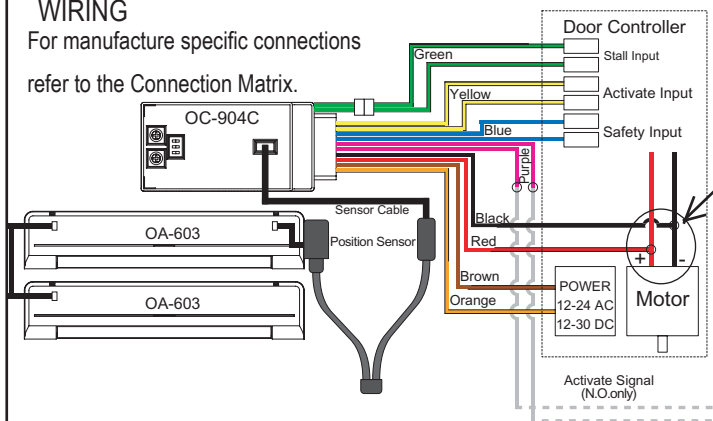
OUTER DIMENSIONS



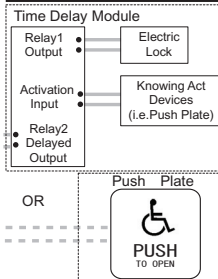
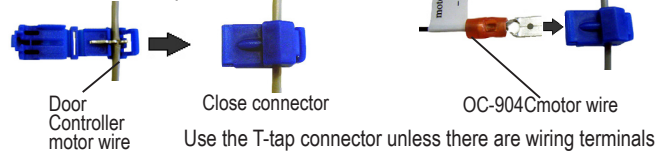
INSTALLATION

WIRING

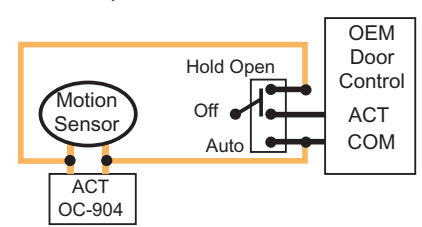
For manufacture specific connections refer to the Connection Matrix.



How to use T-tap connector



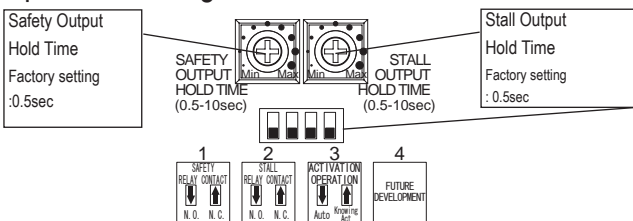
Standard Optional On / Off / Hold Switch



NOTE For Knowing Act application, Connect purple wire to Activate output from push button.

ADJUSTMENT

Dipswitch Settings

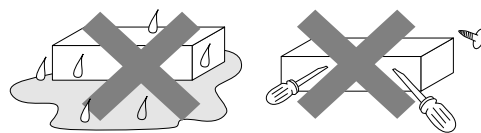


- 1 SAFETY RELAY CONTACT (factory setting:NO)
Choose the Relay Contact.
- 2 STALL RELAY CONTACT (factory setting:NO)
Choose the Relay Contact.
- 3 ACTIVATION OPERATION (factory setting:Auto)
If uses push button for activate,select the knowing act.
- 4 FUTURE DEVELOPMENT(NOT USED)

NOTE The approach side sensor will be inactive on full-closed position with this function.

Advise the building owner/operator of the following items

1. When turning the power on, stay clear of detection area for a minimum of 10 seconds then walk test detection area to ensure proper operation.
2. Always keep the detection window clean. If dirty, wipe the window with a damp cloth (Do not use any cleaner or solvent).
3. Do not wash the sensor with water.
4. Do not disassemble, rebuild or repair the sensor yourself; otherwise electric shock may occur.
5. Contact your installer or the sales engineer if you want to change the settings.
6. Do not place an object that moves or emits light in the detection area.(ex. Plant, illumination etc..)
7. Do not paint the Detection Window.



TROUBLESHOOTING

Symptom		Possible cause	Solution
CANNOT INITIATE SETUP Moving dipswitch on OA-603 does not result in OA-603 LED fast flash yellow.	OC-904C no LED indication	Improper power supply Bad connection on Orange and Brown wires of OC-904	Correct power problem Repair bad connection
	OC-904C LED double orange flashing & no LED indication on OA-603	Bad connection at OC-904	Reseat 4 pin connector from Loop assy to OC-904
		Bad connection from loop assy To OA-603 sensor head	Reseat 4 pin connector from loop assy to OA- 603 sensor head
		Bad connection with 7" pass thru cable	Reseat connection of 7" cable to both OA-603 sensor heads
OC-904 LED double orange flashing & erratic LED on OA-603 sensors	Bad 7" cable	Replace as necessary	
	Switches 7 & 8 of left dipswitches on OA-603 sensors set wrong	Correct dipswitch settings see pg 1-2	
WILL NOT COMPLETE INITIAL SETUP	OC-904 dipswitches set wrong	Check Connection Matrix for proper dipswitch settings	
	Poor or improper connection of yellow wires from OC-904 to door control	Check Connection Matrix for proper connection of yellow wires	
	Improper voltage on red & black wire of OC-904	Ensure positive voltage on red wire at hold open and 0 voltage at closed position	
INTERMITTENT RECYCLE (ghosting) OR INTERMITTENT STALLING	After initial setup door ghosts several times on first activation	Happens on 15% of installations If stops after first activation, system is OK	
	OA-603 sensor head not mounted flush on door	Head may be resting on top of loop mounting bracket Reposition head flush on panel	
	Improper threshold or swing area angle adjustment	Set threshold and swing area angles at +5 degrees (deep)	
	Improper voltage on red & black wire of OC-904	Ensure positive voltage on red wire at hold open and 0 voltage at closed position	
	Stalling caused by traffic just outside of swing path or objects near guide rails	Set switch 6 on left bank dipswitch of OA-603 on/up (shallow) Note: moving the dipswitch will initiate a setup	
	Area width dipswitches set wrong (right bank dipswitches on OA-603)	Verify proper settings (page 1-2)	
NO ACTIVATION AND/OR NO REACTIVATION ON CLOSING CYCLE	Inconsistent data from position sensor/loop assy	Position the loop assy so loop center coupler does not rest on door at any point of door travel	
	OC-904 yellow wires poor or improper connection to door control or on/off/hold switch	Verify proper connection and output of yellow wires. (see Elite Connection Matrix)	
	OC-904 dipswitches set improperly	Verify proper settings(see Elite Connection Matrix)	
NO SAFETY ON SWING SIDE AT FULL CLOSED	On knowing act applications poor or improper connection of purple wires from OC-904 to activation device	Verify good and proper connection (see OC-904 install manual)	
	OA -603 sensor detects (solid or flashing red LED) but door opens anyway	Poor or improper connection of Blue wires from OC-904 to door control OC-904 dipswitches set improperly	
	Verify good and proper connection of blue wires (see Elite Connection matrix)		
	Verify proper settings (see Elite Connection Matrix)		
NO STALL ON SWING SIDE WHILE DOOR IS OPENING	OA-603 no detection (solid green LED)	Area width dipswitches set wrong (right bank dipswitches on OA-603)	
	OA -603 sensor detects (solid or flashing red LED) but door does not slow or stop	Poor or improper connection of green wires from OC-904 to door control OC-904 dipswitches set improperly	
	Verify good and proper connection of Green wires (see Elite Connection matrix)		
	Verify proper settings (see Elite Connection Matrix)		
DOOR REMAINS OPEN	OA-603 no detection (solid green LED)	Area width dipswitches set wrong (right bank dipswitches on OA-603)	
	OC-904 dipswitches set improperly	Verify proper settings (see Elite Connection Matrix)	
	On knowing act applications poor or improper connection of purple wires from OC-904 to activation device	Verify good and proper connection (see OC-904 install manual)	
	Improper wiring of door equipment on/off/hold switch	Verify proper wiring of on/off/hold switch	

Warning Indication (OC-904C Controller)

Mode	Life cycle Notification	Communication Error
Operation Indicator	Twice Green Blinking 	Twice Orange Blinking
Explanation	The relay is reaching the end of its life cycle.	The sensor cable is connected, but unstable communication. A sensor cable may be disconnected or OA-603 mode switches 7 & 8 may be set wrong. Refer to "ADJUSTMENT"

Contact your installer or the sales engineer if:

- you need to change the settings or replace the sensor.
- the trouble still persists after checking and remedying as described above.

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