

Read this manual carefully before install. Failure to read this manual may cause improper operation and may result in serious injury or death of a person. The meanings of the symbols are as follows. Please study the following first and then read the contents of this manual.

5918781 MAY 2012

MANUFACTURER'S STATEMENT

This Installation manual will help identify and resolve some of the most common installation issues. This guide will also verify that all Dipswitch settings and Area Depth adjustments are properly set. If after verifying all 8 steps proper operation has not been achieved, please contact our Technical Support Team at (800) 877-6656.

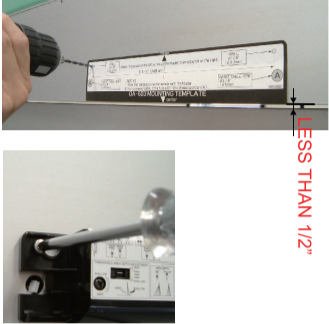
	WARNING	Disregard of warning may cause the improper operation causing death or serious injury of a person.
	CAUTION	Disregard of caution may cause the improper operation causing injury of a person or damage to objects.
	NOTE	Special attention is required to the section of this symbol.

1 Mounting the Sensor Head

- Affix the mounting template to the mounting surface.
- Drill mounting holes and a wiring hole according to the mounting template.

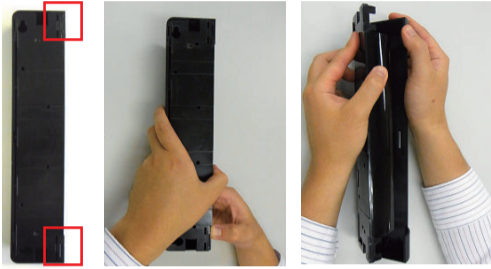
NOTE Drill the hole on **one side only**.

- Remove the mounting template.
- Affix OA-613 sensor head to header.



How to remove the cover (Before installation)

Release 2 clutches in red square to remove the cover.



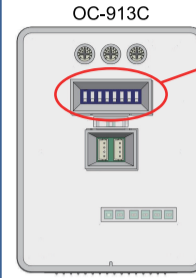
How to remove the cover (After installation)

Insert the flat head screw driver and push it down. Hold the top and remove the cover.



2 Dipswitch settings of OC-913C

Set dipswitch as shown below.



Black arrow : Select according to your site
Green arrow : See Step 3 or 4
Gray arrow : N/A

Dipswitch 1
ON : N.C.
OFF : N.O.

Dipswitch 2
Determines safety output when door is open.
ON : Saf
OFF : Act

Dipswitch 8
Set to "ON" when door mount sensor and OC-913C are used for Knowing Act application without OA-613.

NOTE See PREMIER Mk2 specification manual for each dipswitch definitions. Refer to OC-913C Connection Matrix for OEM specific settings.

3 Wiring for normal operation

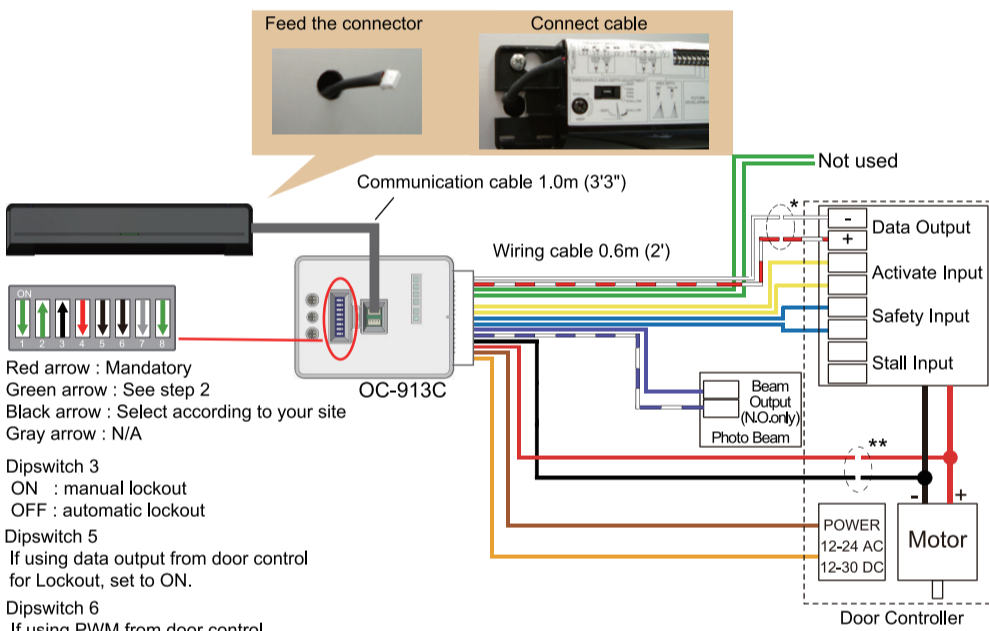
Wiring the cable as shown below. See Connection Matrix.

WARNING

Danger of electric shock

Before starting the procedure, make sure that the power is turned OFF. When passing the cable through the hole, do not tear the shield otherwise it may cause electric shock or breakdown of the sensor.

Option 1: With Beam



Red arrow : Mandatory
Green arrow : See step 2
Black arrow : Select according to your site
Gray arrow : N/A

Dipswitch 3
ON : manual lockout
OFF : automatic lockout

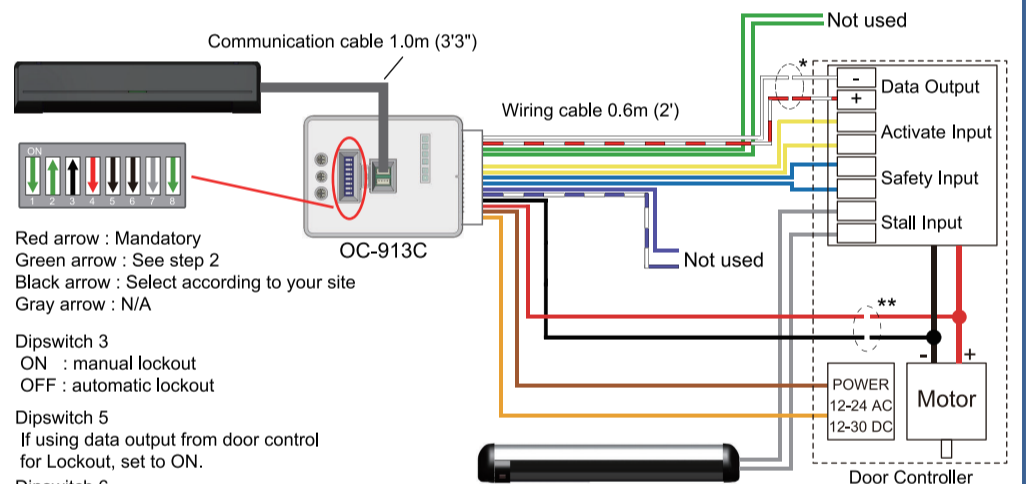
Dipswitch 5
If using data output from door control for Lockout, set to ON.

Dipswitch 6
If using PWM from door control for Lockout, set to ON.
(When using PWM, DipSwitch 5 also needs to be set to ON.)
Refer to OC-913C Connection Matrix.

* Wiring to Data Output : When using this input set OC-913C Dipswitch 5 ON
** Wiring to Motor : When using this input set OC-913C Dipswitch 5 OFF

Option 2: With Door mount swing sensor

* Wiring to Data Output : When using this input set OC-913C Dipswitch 5 ON
** Wiring to Motor : When using this input set OC-913C Dipswitch 5 OFF



Red arrow : Mandatory
Green arrow : See step 2
Black arrow : Select according to your site
Gray arrow : N/A

Dipswitch 3
ON : manual lockout
OFF : automatic lockout

Dipswitch 5
If using data output from door control for Lockout, set to ON.

Dipswitch 6
If using PWM from door control for Lockout, set to ON.
(When using PWM, DipSwitch 5 also needs to be set to ON.)

Refer to OC-913C Connection Matrix.

*** Depending on the operator, an inhibit switch may be required.

4 Wiring for Knowing Act Function operation

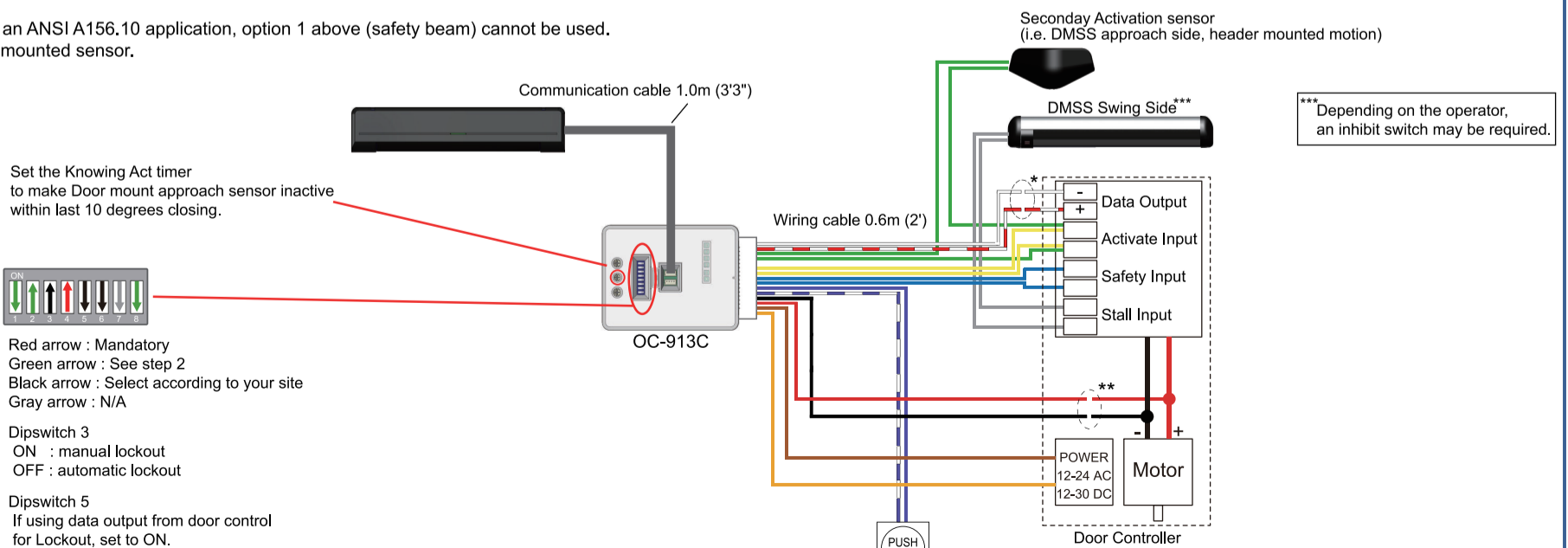
WARNING

Danger of electric shock

Before starting the procedure, make sure that the power is turned OFF. When passing the cable through the hole, do not tear the shield otherwise it may cause electric shock or breakdown of the sensor.

NOTE

When using this function in an ANSI A156.10 application, option 1 above (safety beam) cannot be used. Must use Option 2 for door mounted sensor.



Set the Knowing Act timer to make Door mount approach sensor inactive within last 10 degrees closing.

Red arrow : Mandatory
Green arrow : See step 2
Black arrow : Select according to your site
Gray arrow : N/A

Dipswitch 3
ON : manual lockout
OFF : automatic lockout

Dipswitch 5
If using data output from door control for Lockout, set to ON.

Dipswitch 6
If using PWM from door control for Lockout, set to ON.
(When using PWM, DipSwitch 5 also needs to be set to ON.)

Refer to OC-913C Connection Matrix.

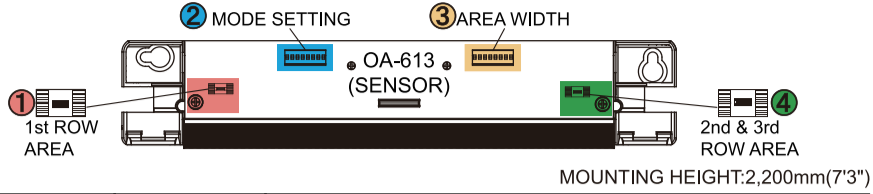
Primary activate devices
(i.e. Push Plate, Key Pad, etc.)

* Wiring to Data Output : When using this input set OC-913C Dipswitch 5 ON
** Wiring to Motor : When using this input set OC-913C Dipswitch 5 OFF

*** Depending on the operator, an inhibit switch may be required.

5 Settings of OA-613

Verify proper dipswitch settings of OA-613 sensor heads.



DOOR TYPE	DOOR SIZE	INITIAL SETTING			
		①	②	③	④
SINGLE SWING	36" / 42" / 48"	-5 degrees	1 2 3 4 5 6 7 8	1 2 3 4 5 6 7 8	+5 degrees
SINGLE FOLD	36" / 42" / 48"	-5 degrees	1 2 3 4 5 6 7 8	1 2 3 4 5 6 7 8	+5 degrees
DOUBLE SWING	36"	-5 degrees	1 2 3 4 5 6 7 8	1 2 3 4 5 6 7 8	+5 degrees
	42" / 48"		1 2 3 4 5 6 7 8	1 2 3 4 5 6 7 8	
BI FOLD	72"	-5 degrees	1 2 3 4 5 6 7 8	1 2 3 4 5 6 7 8	+5 degrees
	84" / 96"		1 2 3 4 5 6 7 8	1 2 3 4 5 6 7 8	

Red arrow : Recommended setting
 Black arrow : Select according to your site
 Green arrow : Recommended setting to comply with ANSI

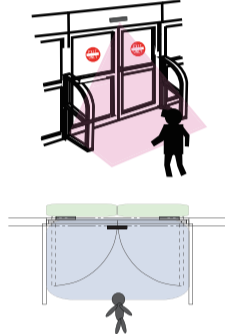
NOTE See PREMIER Mk2 specification manual for each dipswitch definitions.

7 Normal operation check

Before leaving the site, check two items.
 In applications that are to conform to ANSI/BHMA A156.10, in addition to the basic operational checks below, perform a sensor walk test using methods recommended by AAADM to approximate conformance of the requirements in section 8 and/or 9 of the ANSI standard.

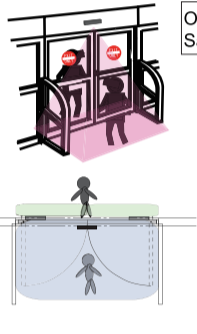
Entering swing side at full closed position.

OC-913C Output Safety : OFF



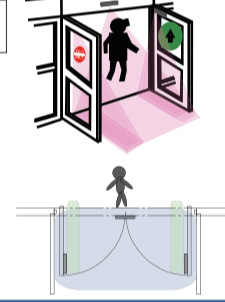
Door does not open.

OC-913C Output Safety : ON



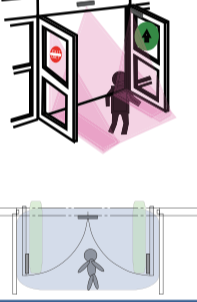
Entering the door at full open position.

OC-913C Output Safety : ON



Door stays opened.

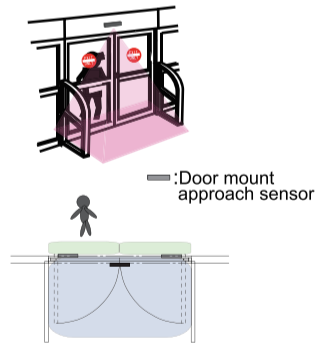
OC-913C Output Safety : ON



8 Function operation check if using Knowing Act Function (OC-913C Dipswitch 4 ON) in conjunction with OA-613 sensor

Before leaving the site, check six items.

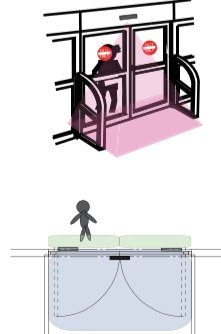
Entering approach side at full closed position.



OC-913C Output Activate : OFF
 Safety : OFF
 Inhibit : ON

Door mount approach sensor Output Activate : OFF

Door does not open.

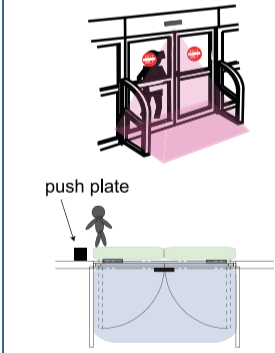


OC-913C Output Activate : OFF
 Safety : OFF
 Inhibit : ON

Door mount approach sensor Output Activate : ON

NOTE Door opens if push the push plate.

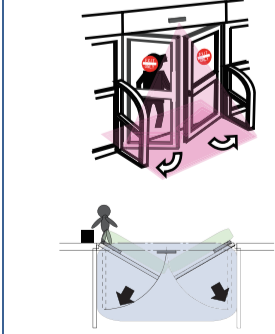
Push the push plate.



OC-913C Output Activate : OFF
 Safety : OFF
 Inhibit : ON

Door mount approach sensor Output Activate : OFF

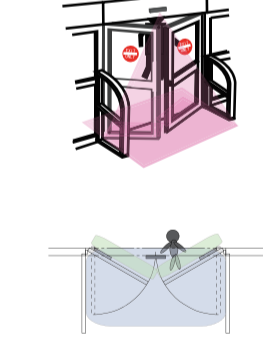
Door opens.



OC-913C Output Activate : ON
 Safety : OFF
 Inhibit : OFF

Door mount approach sensor Output Activate : ON

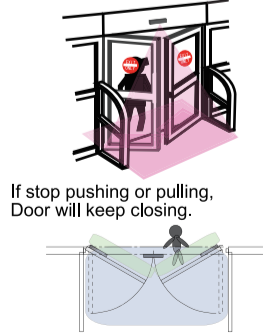
Entering the door manually.



OC-913C Output Activate : OFF
 Safety : OFF
 Inhibit : ON

Door mount approach sensor Output Activate : ON

Door does not open automatically.

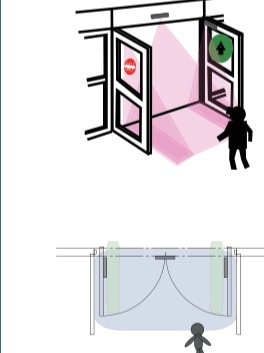


OC-913C Output Activate : OFF
 Safety : OFF
 Inhibit : ON

Door mount approach sensor Output Activate : ON

NOTE Area of all sensor is disabled.

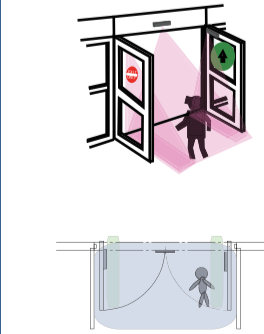
Entering the door at full open position.



OC-913C Output Activate : OFF
 Safety : OFF
 Inhibit : OFF

Door mount approach sensor Output Activate : OFF

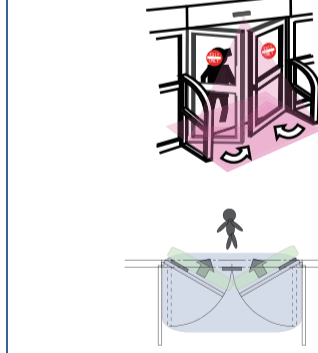
Door stays opened.



OC-913C Output Activate : OFF
 Safety : ON
 Inhibit : OFF

Door mount approach sensor Output Activate : OFF/ ON

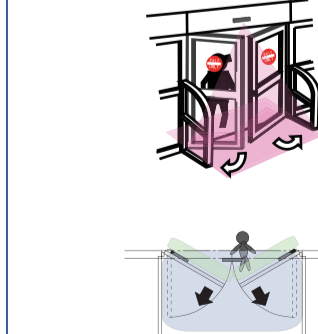
Entering approach side during closing cycle.



OC-913C Output Activate : OFF
 Safety : OFF
 Inhibit : OFF

Door mount approach sensor Output Activate : OFF

Door starts re-opening.

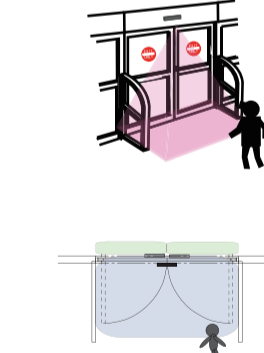


OC-913C Output Activate : OFF
 Safety : OFF
 Inhibit : OFF

Door mount approach sensor Output Activate : ON

NOTE Door will re-activate until within last 10 degrees of closing. Timing is determined by Knowing Act timer adjustment.

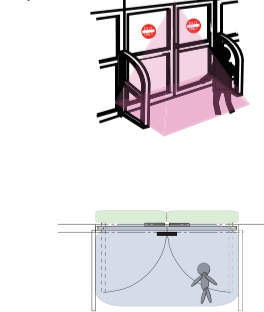
Entering swing side at full closed position.



OC-913C Output Activate : OFF
 Safety : OFF
 Inhibit : ON

Door mount approach sensor Output Activate : OFF

Door does not open.



OC-913C Output Activate : OFF
 Safety : ON
 Inhibit : ON

Door mount approach sensor Output Activate : OFF

6 Premier Learn process

Premier Learning

To enable a Premier Learn process, move any dipswitch on the OA-613 sensor head, wait 1 second and move it back. Move out of the detection area and then confirm the process below.

Door Status	Sensor Status	OA-613 Operation indicator	OC-913C Operation indicator
	Initial setup	Blinking Yellow (Approx. 10sec.) ↓ Solid Yellow	Blinking Green (Approx. 10sec.) ↓ Solid Green
	Waiting for next learning	Solid Yellow (Until activate door)	Solid Green (Until activate door)
	During door opening	Solid Orange (Approx. 15sec.)	Blinking Red
	Learning full opened cycle	Solid Green	Solid Red
	During door closing	Solid Orange	Solid Orange (Until approx. 3sec. after full closed)
	Setup complete	Solid Green	Solid Green

CAUTION When using manual lockout timer, ensure lockout time is not adjusted too long. During normal operation OC-913C LED should change from Solid Orange to Solid Green within 1 second after full close.

8

Function operation check if using Knowing Act Function (OC-913C Dipswitch 4 ON) in conjunction with OA-613 sensor

Before leaving the site, check six items.