🖉 optex **PRD** Swing PREMIER Mk2 Specification manual CE

MANUFACTURER'S STATEMENT

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Read this manual carefully before use to ensure proper operation of this product. 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.			
WARNING Disregard of warning may cause improper operation causing death or serious injury of a person.			
CAUTION Disregard of caution may cause improper operation causing injury of a person or damage to objects.			
NOTE	Special attention is required to the section of this symbol.		

NOTE

- 1. Premier MK2 version Sensor Heads (OA-613) & Controller (OC-913C) are not compatible with old Premier version Sensor Heads (OA-603) and controller (OC-903C). Do not intermix Old & New versions.
- 2. This sensor is a non-contact switch intended header mount or wall mount for use on automatic swing doors. Do not use for any other application.
- 3. When setting the sensor's detection area, make sure that there is no traffic around the installation site. 4. Before turning the power ON, check the wiring to prevent damage or malfunction of equipment connected to the sensor.
- 5. Only use the sensor as specified in the operation manual provided.
- 6. Be sure to install and adjust the sensor in accordance with the local laws and standards of the country in which the sensor is installed.
- 7. Before leaving the installation site, make sure that the sensor is operating properly and instruct the building owner/operator on proper operation of the door and the sensor.
- 8. The sensor settings can only be changed by an installer or service engineer. When changed, the changed settings and the date shall be registered in the maintenance logbook accompanying the door.

Danger of electric shock

-Wet floor.

Do not wash, disassemble, rebuild or repair the sensor, otherwise it may cause electric shock or breakdown of the equipment.

NOTE The following conditions may not be suitable for sensor installation. -Fog or exhaust emission around the door. -Moving objects or objects that emit light near the detection area. -Highly reflecting floor or highly reflecting objects around the door.

SPECIFICATIONS

Model (System name)	: PREMIER Mk2	Model (Sensor head)	: OA-613
Power supply	: 12 to 24 VAC ±10% (50 / 60 Hz)	Cover color	: Black
	12 to 30 VDC	Mounting height	: 2.0 (6'7") to 2.5m (8'2")
Power consumption	: < 2.2W (< 4VA at AC)		: See DETECTION AREA
	at 1 OA-613 & 1 OC-913C	Detection method	: Active infrared reflection **
Output *	: CMOS. Relay Voltage / 5 VDC	Depth angle adjustment	: 1st row area ±5°
Output hold time	: 0.5 sec. fixed (Activate output)		2nd & 3rd row area ±5°
	0.5 sec. to 10sec.(Safety output)	IP rate	: IP44
Response time	: < 0.3 sec.	Weight	: 230g (8.1oz)
Operating temperature	e:-20 to +55°C (-4 to 131°F)		
	without dew condensation		: OC-913C
Operating humidity	: < 80%	Weight	: 65g (2.3oz)
Accessories	: 1 Spec manual		
	1 Installation manual		
	2 Mounting screws		
	1 Mounting templates for OA-613		
	1 Communication cable 1m (3'3")		
	1 Wiring cable 0.6m (2')		
	1 Velcro tape	 Three type of outputs 	(Activate , Inhibit , Safety)
	2 Winny Shens	 ** : All rows have the pres 	
	1 Connection Matrix		

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

Operation indicator : OA-613

Operation indicator . OA-015		
Status	Color]
Stand-by	Solid Green	
1st row area detection	Blinking Red	
2nd or 3rd row area detection	Solid Red	
Waiting for next learning	Solid Yellow	
During learning	Blinking Yellow	
During opening or closing	Solid Orange	
Signal saturation	Slow Green blinking	
Sensor failure	Fast Green blinking	
Setting error	Slow Orange blinking	
Communication error	Twice Orange blinking	
Mixed version error	Red & Green blinking	



(Inhibit output, Safety output, Activate output, Activate/Beam input)

DETECTION AREA

(10



Operation indicator : OC-913C

Status	Color	1
Door fully closed	Solid Green	
Door closing	Solid Orange	
Door fully opened	Solid Red	
Door Opening	Blinking Red	
During Learning	Slow Green blinking	
Communication error	Twice Orange blinking	
Mixed version error	Red & Green blinking	

Interface LED : OC-913C

LED indication		Operation
Inhibit output	Solid Green	When outputting
	OFF	When not outputting
Safety output	Solid Green	When not outputting
Salety output	OFF	When outputting
Activate output	Solid Orange	When outputting
Activate output	OFF	When not outputting
Activate input / Beam input	Solid Orange	When receiving input
Activate input / Beam input	OFF	When not receiving input

Chart shows figures if all angles are set at 0degree.

[mm (ft,inch)]

Α	2000 (6'7")	2200 (7'3")	2500 (8'2")
В	364 (1'2")	400 (1'4")	455 (1'6")
С	182 (7")	200 (8")	227 (9")
D	23 (1')	25 (1')	28 (1')
Е	664 (2'2")	730 (2'5")	830 (2'9")
F	1391 (4'7")	1530 (5'1")	1739 (5'9")
G	682 (2'3")	750 (2'6")	852 (2'10")
Н	1318 (4'4")	1450 (4'9")	1648 (5'5")
	2045 (6'9")	2250 (7'5")	2557 (8'5")
J	2864 (9'5")	3150 (10'4")	3580 (11'9")



NOTE The actual detection area may become smaller depending on the ambient light, the color / material of the object or the floor as well as the entry speed of the object.



Knowing Act Function

Use this function when Primary Activation is knowing act (i.e. Push Plate, Card reader, etc.) and a secondary activation sensor(door mount or header mount) is desired. See WIRING in the installation manual when Knowing Act Function is required.

Secondary activation sensor status in Knowing Act Function: - Full Closed position

Secondary activation sensor is inactive until the knowing act device is initiated. Door can be used manually without activation or reactivation from sensor.

 Door Opening & Full Open When door is activated by Knowing Act, the secondary activation sensor is active and the door will remain open when the sensor is in detection.

- Door closing

Secondary activation sensor is active and will reactivate the door upon detection until the Knowing Act timer expires. Set the Knowing Act timer on OC-913C control to stay active to within 10 degrees from full closed.

NOTE When using the Knowing Act Function, Push/Pull activation MUST be disabled at the door control.

INFORM BUILDING OWNER / OPERATOR OF THE FOLLOWING ITEMS

1. Always keep the detection window clean. If dirty, wipe the window with a damp cloth.(Do not use any cleaner / solvent.) 2. Do not wash the sensor with water.

3. Do not disassemble, rebuild or repair the sensor yourself, otherwise electric shock may occur.

- 4. When the operation indicator blinks Green, contact your installer or service engineer.
- 5. Always contact your installer or service engineer when changing the settings.

6. Do not paint the detection window.

NOTE

1. After applying power, wait 10 seconds then walk test detection area to ensure proper operation.

2. Do not place any objects that move or emit light in the detection area. (e.g. Plant, illumination, etc.)

	Operatior	n indicator			
Symptom	OA-613	OC-913C	Possible cause	Possible countermeasures	
Initial setup	None	None	Power supply voltage.	Set to the stated voltage.	
can not start.			Wrong wiring cable (Brown &Orange wires) of OC-913C.	Check the wiring cable.	
	Twice Orange blinking	Twice Orange	Connection failure from OA-613 to OC-913C.	Check the connector.	
	or None		Defective communication cable.	Replace as necessary.	
	Slow Orange	blinking	When all the area are inactive. (Right bank dipswitches on OA-613)	Verify proper settings. See installation manual section 4.	
	blinking		OC-913C Dip-SW 8 is ON, but OA-613 is also connected to OC-913C.	If use OA-613, set OC-913C Dip-SW 8 to "OFF". If do not use OA-613, disconnect it.	
Incomplete initial setup	Blinking Yellow	Blinking Green	OC-913C dipswitches set wrong.	Check the dipswitch settings.	
Door operates when no one is in the	Solid Green or	Proper	Improper 1st row or 2nd & 3rd row area angle adjustment.	Set 1st row area angle at -5 degrees (shallow) or 2nd & 3rd row area angle at +5 degrees (deep).	
detection area. (Ghosting)	Solid Red or		Stalling caused by traffic just outside of swing path.	Set dipswitch 6 on left bank dipswitch of OA-613 on/up (shallow).	
	Blinking		Moving objects near guide rails.	Remove the objects.	
	Red		Area width dipswitches set wrong. (Right bank dipswitches on OA-613)	Verify proper settings. See installation manual section 4.	
			Wet floor. The exhaust emission or fog penetrate into the detection area.	Check the installation condition referring to MANUFACTURER'S STATEMENT .	
			Reflecting objects in the detection area.		
				Objects that move or emit light (Ex.Plant, illumination, etc.)	Remove the objects.
			Water drops on the detection window.	Use the rain-cover (Separately available) Or install in a place keeping the water drops off.	
			Sensitivity is too high.	Adjust the sensitivity lower.	
			Snow drifting.	Set the snow mode to "Snow".	
			Other than above.	Set the rain mode to "Rain".	
Door does not	Solid Green	Green	Sensitivity is too low.	Adjust the sensitivity higher.	
operate properly when a person enters the			Area width dipswitches set wrong. (Right bank dipswitches on OA-613)	Verify proper settings. See installation manual section 4 .	
detection area. (Sensor does not detect.)	Slow Green blinking	ireen	Improper 1st row or 2nd & 3rd row area angle adjustment.	Set 1st row area angle at -5 degrees (shallow) or 2nd & 3rd row area angle at +5 degrees (deep).	
			Signal saturation.	Remove highly reflecting objects from th detection area. Or lower the sensitivity.	
	Fast Green blinking	n Proper	Dirty detection window.	Wipe the detection window with a damp cloth. (Do not use any cleaner or solvent	
			Sensor failure.	Contact your installer or service enginee	
OA-613 detects but door operate.	Red or Blinking Red	Proper	OC-913C dipswitches set wrong.	Check the dipswitch settings. See installation manual section 2 .	
Door remains open.	Solid Green	Proper	Improper wiring of door equipment on / off / hold switch.	Verify proper wiring of on / off / hold switch.	

Set the dipswitches as shown below

	Dipswitch setting		ON 🛉
1	Safety Relay Contact	NO	NC
2	Door Open Signal Switch	Act	Saf
3	Auto Lock Out	Auto	Manual
4	Knowing Act	OFF	ON
5	Data Input	OFF	ON
6	Future Development		
7			
8	Stand Alone	OFF	ON

1. Safety Relay Contact : Choose the Relay Contact.

2. Door Open Signal Switch: Determines safety output when door is open.

3. Auto Lock out : Set the lockout method ON : Manual (by volume setting on OC-913C) OFF : Auto (by motor voltage)

4. Knowing Act : If uses KnowingAct Function, set to "ON".

5. Data Input : If using data output from door control for Lockout, set to "ON". When Data Input is "ON", setting of Auto Lock Out(dipswitch 3) is ignored.

6,7. Future Development (not used)

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

CAUTION When using OA-613, dipswitch 8 must be set to "OFF".

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