

Swing Door Lockout Relay



MANUFACTURER'S STATEMENT

5912352 2005.9

Read this document and this Operation Manual carefully before use, to ensure proper operation of this Optex sensor. Failure to read this Operation Manual may cause improper sensor operation and may result in serious injury or death.

This product is a non-contact activating switch intended for mounting on the header of an automatic door.

Do not use it for any other applications; otherwise proper operation and safety cannot be guaranteed.

- 1. Follow the instructions (especially Note) in this Operation Manual when installing and adjusting the sensor.
- When setting the sensor's area pattern, make sure there is no traffic around the installation site.
- Before turning the power on, check the wiring to prevent damage or malfunction of equipment that is connected to the sensor.
- Do not disassemble, rebuild or repair the sensor yourself; otherwise it may cause electric shock or breakdown of the sensor.
- Only use the sensor as specified in the supplied instructions.
- Be sure to install the sensor in accordance with the local laws and standards of your country.
- Before leaving the jobsite, be sure this equipment is operating properly and instruct the building owner/operator on proper operation of the door and this sensor.

SPECIFICATIONS

Power Supply 12 - 24V AC, 12 - 30V DC Green: Standby Operation Indicator 250mA max Current Draw Red: Door Opening Output Orange: Lockout

Activate Output: Form A Relay 50V, 0.1A(Resistance Load)

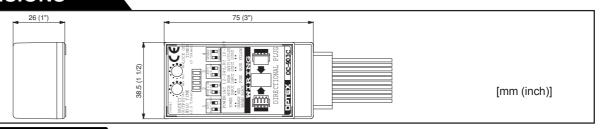
Operating Temperature -20 - +55degrees (-4F - +131Fdegrees) Safety Output: Form C Relay 50V, 0.1A (Resistance Load) Weight Relay Hold Time(Safety Output only) 0.5 to 10s

50g (1.8oz.) Accessories 1 Two sided tape Response Time < 0.3s2 Wiring shell Lockout Timer 0 - 24sec

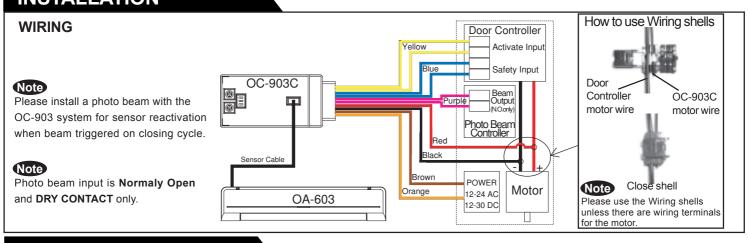
*When a unit of the OA-603 and OC-903C used

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

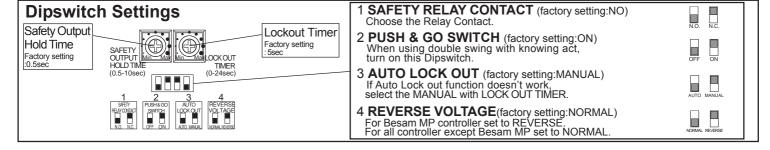
OUTER DIMENSIONS



INSTALLATION



ADJUSTMENT



CHECKING

Note Please enforce the door open to complete the teaching.								
Status		Turn on the Power		Door opening	Door opened Completely	Start closing	Door closing	Door closed
(Image)					U	J	3	
Sensor Status		1st Teaching	1st Complete Teaching	Lockout	2nd Teaching	Complete Teaching	Lockout	Standby
Operation Indicator	OA-603	Blinking Yellow	Yellow	Orange	Orange	Green	Orange	Green
	OC-903C	Slow Blinking Green	Green	Red	Red	Red	Orange	Green
Relay	Activate							
Contact	Safety							

Note Check the OC-903C operation according to the following flow chart.									
Stati	ıs	Turn on the Power (Door closed)		Door opening Door opened Completely		Door closing		Door closed	
(Imag							72/		
Sensor	Header Sensor	Standby	Detection Active	Lockout	Standby	Detection Active	Lockout	Lockout	Standby
Status	Photo Beam	Standby	Detection Active	Standby	Standby	Detection Active	Standby	Detection Active	Standby
Opera Indic	tion ator	Green		Red	Green		Orange		Green
Relay Contact	Activate						1		
PUSH&GC	Safety						/		
Relay Contact	Activate		`				/		
PUSH&GC OFF	Safety	`_			/		/		<u> </u>
Relay Contact	Activate	`	`					`	
EVERY REBOOT	Safety	`_			`	`			

Note Safety Output is selectable by the dipswitch for either NO or NC. (Above picture is showing NO.) Relay contact reverses on opening cycle when PUSH & GO is on.

Inform the following items to the building owner/operator

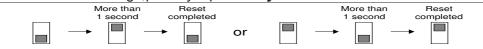
- 1. When turning the power on, always walk-test the sensor pattern to ensure proper operation.
- 2. Always keep the detection window clean. If dirty, wipe the window with a damp cloth (Do not use any cleaner or solvent).
- 3. Do not wash the sensor with water.
- 4. Do not disassemble, rebuild or repair 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

Door status	Trouble	Possible cause	Solution	Reference	Door status	Trouble	Possible cause	Solution	Reference
close	Door does not open	OC-903C NO and NC are inverted.	Change the OC-903C Dipswitch	OC-903C ADJUSTMENT	-1	the door	There is an object that moves.	Remove the object	OA-603 ADJUSTMENT
			Check the OC-903C wiring	OC-903C INSTALLATION			There was an abrupt change in the detection area.	Carry out the teaching again	OA-603 ADJUSTMENT
		OC-903C SAFETY OUTPUT HOLD TIME is set long.	Shorten the OC-903C setting time	OC-903C ADJUSTMENT			Water drops on the sensor.	Keep the sensor free from waterdrops.	OA-603 ADJUSTMENT
	not open while the sensor	Moving object in the detection area	Remove the object	OA-603 ADJUSTMENT				Secure the header	
		detection area.	Reset the teaching again	OA-603 ADJUSTMENT			The detection area overlapping with it of another sensor	Change the Frequency dipswitch.	OA-603 ADJUSTMENT
		Waterdrops on the sensor.	Keep the sensor free from waterdrops.	OA-603 ADJUSTMENT	closing	Does not lock out.	Wrong wiring of motor power voltage	Check the OC-903C wiring	OC-903C ADJUSTMENT
		Vibration of the header	Secure the header			The door starts closing while the sensor detects.	OC-903C NO and NC are inverted.	Change the OC-903C Dipswitch	OC-903C INSTALLATION
		The detection area overlapping with it of another sensor	Change the Frequency dipswitch.	OA-603 ADJUSTMENT			OC-903C Wrong Wiring	Check the OC-903C wiring	OC-903C ADJUSTMENT
		Unadequate detection area setting	Reset the detection area	OA-603 ADJUSTMENT			The lock out timer is set long with OC-903C Manual setting.	Change the OC-903C Lockout Timer	OC-903C ADJUSTMENT
opening	The door starts opening while the sensor detects.	OC-903C NO and NC are inverted.	Change the OC-903C Dipswitch	OC-903C INSTALLATION			Wrong door controller setting	Change the door controller setting.	
			Check the OC-903C wiring	OC-903C ADJUSTMENT		No detection	The power supply is not ON.	Make sure that the sensor cable between OA-603 and OC-903C is	OA-603
		The lock out timer is set long with OC-903C Manual setting.	Change the OC-903C Lockout Timer	OC-903C ADJUSTMENT				connected.	INSTALLATIO
		Unadequate detection area setting	Reset the detection area	OA-603 ADJUSTMENT				Check the OC-903C wiring	OC-903C ADJUSTMENT
	The door starts opening without the detection.	Wrong Wiring	Check the OC-903C wiring	OC-903C INSTALLATION			Dirty detection window.	Wipe the OA-603 detection window lightly with a damp cloth.	OA-603 ADJUSTMENT
	Door remains	OC-903C NO and NC are inverted.	Change the OC-903C Dipswitch	OC-903C ADJUSTMENT			Unadequate detection area setting	Reset the detection area	OA-603 ADJUSTMENT
		OC-903C Wrong Wiring	Check the OC-903C wiring	OC-903C INSTALLATION			Communication error.	Make sure that the sensor cable is not cut off.	OA-603 INSTALLATIO
			Shorten the OC-903C SAFETY OUTPUT HOLD TIME.	OC-903C ADJUSTMENT			No sufficient sensitivity	Adjust the senstitivity.	OA-603 ADJUSTMENT
		Wrong wiring of motor power voltage		OC-903C ADJUSTMENT			The mounting height is too high.	Adjust the mounting height to the stated height.	OA-603 ADJUSTMENT

How to reset the sensor

Note When wish to reset the settings, put any dipSW only on OA-603 to ON/OFF for more than 1 second.



Warning Indication

Mode	Life cycle Notification	Communication Error			
Operation Indicator	Twice Green Blinking	Twice Orange Blinking			
Representation	The relay is reaching the end of its life cycle.	The sensor cable is connected, but unstable communication. 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.

"Take Care of Environment". This manual uses recycled paper.



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