C OPTEX		English
Beam Switch	OS-12C / OS-12C (HT0.1)	Single / Double Beams

CE

MANUFACTURER'S STATEMEN1

When using this apparatus, please read this manual thoroughly to operate correctly. In this manual, a variety of illustrations and expressions are shown to prevent you and other people from undergoing any injury or damage of property during the use of the apparatus

The meanings of the expressions are as follows: Please learn the following first and then read the contents of this manual

∕∆Warning	Indicates that the disregard of the warning may result in serious injury or death.
<u>∕</u> . ∴ Caution	Indicates that the disregard of the caution may result in injury or physical damages.

Danger of electric shock. / Warning

Be sure to turn off the power supply when carrying out electrical works. Do not wash, disassemble, rebuild or repair the sensor by yourself.

Danger of getting caught between the door. (Please explain to the building owner/operator) / Warning

Even when someone stops on the threshold, the door closes unless the light beam is cut off (The beam switch outputs the signal only when the light beam is cut off). The beam switch is not designed as an apparatus to prevent accidents. It should be used strictly for the purpose of an auxiliary apparatus for safety.

Note 1. When the equipment is in failure, the door is held open. (This is the function to secure the safety of traffic.) 2. 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 that this sensor is operating properly and instruct the building owner/operator on proper operation of this sensor.

SPECIFICATIONS

Model	OS-12C / OS-12C (HT0.1)				
Installation Distance	Less than 10m (32' 10'')				
Detection Method	Point to Point Near Infrared Light Beam				
Power Supply	12 to 24V AC / 12 to 30V DC				
Current Draw	160mA MAX				
Operation Indicator	BEAM1 BEAM2 Stand-by : GREEN ON / RED ON Detection Active : GREEN OFF / RED OFF Insufficient sensitivity : GREEN BLINK / RED BLINK				
Output Contact	N.O. / N.C. 50V 0.3A (Resistance Load)				
Response Time	Approx. 0.1 sec (from the moment of beam cut-off)				
Relay Hold Time	Approx. 0.5 sec / OS-12C, 0.1 sec / OS-12C (HT0.1) (from the moment of beam input)				
Operating Temperature	-20°C to +55°C (-4°F to +131°F)				
Weight	Amplifier: 65g (2.3oz)				
Component	1 Amplifier, 2 Mounting screws, 1 Manual (Optional sensor head is necessary for operation)				
	ise OS-12C as an amplifier for 1 or 2 beam use by attaching				

OUTER DIMENSIONS



a separately sold SensorHead The specifications herein are subject to change without prior notice due to Note 2) improvements

SEPARATELY SOLD OPTIONAL ITEMS



Wiring	SensorHeads		····	inger of electric		he wire as you press the onnection Button.	000000	
◆Cutting the wires◆			Zivvarning shock.		Then, release the finger. Be sure to insert both the shield and			
When cutting the wires, prepare the tip of the wires as follows:			efore starting the ure to turn off the		the con			
16	5mm (5/8")	Z		k of breaking the paratus.			res and output signal wires	
Shield W		When cutting the wires, be sure to			he wires to Terminal Block 1-5 vn below.	Caution Risk of breaking down the apparatus.		
Conductor (Twist hard) 9mm (3/8")		uctor (Twist hard) SI	prepare the tip of the wires as shown on the left: If the covers of the shielding wires are peeled off too long, the adjacent tips can easily contact each other causing breakdown of the apparatus.		Press the Wire Connection Button of the power supply signal side and insert the wires are securely connected.		Be sure to connect the power supply wires to terminal 1 and 2. If wired wrongly, the apparatus may break down.	
			sert the wires to T as shown on the	erminal Block 6- left.			 Stated connection capacity Solid(Rigid)ø0.4-ø1.2mm (AWG26-18) Stranded(Flexible)0.3mm²-0.75mm (AWG22-20) (Strand diameter shall be more than 0.18mm Warning about wiring Do not connect more than 2 wires one terminal. 	
		HECKING			Inform t	be following items to the	building owner/operator	
20.07	ty Adjustme			la l			walk-test the sensor to ensure proper	
 ① Press Sensitivity Teach In Button for more than one second. When the green and red LED blinking becomes green and red (no blinking), the setting is completed. The proper sensitivity is adjusted automatically. ② Check the auto-set adjustment with the table below. 			 operation. Always keep the Lens surface clean. If dirty, wipe the lens with a damp cloth (Do not use any cleaner or solvent). Do not wash the sensor with water. Do not disassemble, rebuild or repair the sensor yourself; otherwise electric shock may occur. Contact your installer or the sales engineer if you want to change the settings. Do not place an object that moves or emits light in the detection area. 					
LED		SI	ate		(Ex. P	lant, illumination etc.)	emits light in the detection area.	
Green/Red		sitivity has been seed. (When using tv		adjustment is	7. Do noi	t paint the Lens surface.		
Green Ol		sitivity has been seed. (When using or		adjustment is	TROU	BLESHOOTING		
Green/Red E alternate	Blink The sen	sitivity is insufficie ne followings.			Trouble	Possible Cause	Solution	
Checking Iten	-	ie tonowings.			Deec not	Irregular supply voltage	Adjust to the stated voltage.	
If there is no person or object in the detection area. If the lens surface is clean. If the wire connections are done properly.					Does not operate	Wire cut or bad connection Inappropriate installation distance or condition	Check the wiring. Check the installation distance and condition.	
-		eads are mounted	straight. (They sh	nould not be tilted.)		Inappropriate installation distance or condition	Check the installation distance and condition.	
◆Sensitivity Adjustment◆ Set the sensitivity in the environment same as the actual regular use. Also, be sure that there is no swaying object in the area.					Operates by itself (Ghosting)	Something swaying between the SensorHeads cutting off the	Remove the obstruction.	
		er of Sensor Hea Itton. All SensorHe		ted at once		Dirty lens.	Remove the dirt.	
he apparatus d Re-setup of or the maintena	loes not operate	properly if Teach I	n Button is not pr		- you nee	bur installer or the sales enginee d to change the settings or repl ible still persists after checking a		
utomatically.	ng the opera	lion			1	STATEMENT		
81°	• •	pparatus according	to the following	chart.	following t this device	two conditions: (1) This device me must accept any interference re	CC Rules. Operation is subject to the ay not cause harmful interference, and (2 aceived, including interference that may	
Entry motion (Image)		A.	⇒∱°		Warning: This equip device, pu reasonable	Irsuant to Part 15 of the FCC Ru e protection against harmful inter	I to comply with the limits for a Class B les. These limits are designed to provide ference in a residential installation. This e radio frequency energy and, if not install	
Operation Indicator	OFF	ON (Green/Red)	OFF	ON (Green/Red)	and used i	in accordance with the instruction ations. However, there is no gua	ns, may cause harmful interference to radi rantee that interference will not occur in a	
Status	Power OFF *Failure of the apparatus	Stand-by status No person or object exists between the SensorHeads	or object is passing in the beam path	After the traffic has passed, the status becomes stand-by.	television the user is following r - Reorient - Increase	reception, which can be determin s encouraged to try to correct the measures: or relocate the receiving antenn. the separation between the equ	ipment and receiver.	
N.O.	CLOSE OPEN	OPEN CLOSE	CLOSE OPEN	OPEN CLOSE	receiver	is connected.	a circuit different from that to which the	
Dutput N.C.			I UPEN	I LLUSE	I I - Consult t	the dealer or an experienced rad	o / 1V technician for help	

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