

Outdoor Wave-to-Open Sensors

Installation Manual



Pulse Series



WS-9133-SNG shown



WS-9233-SNG shown



WS-9733-SNG shown



Color / Override Button	Slimline	Single-Gang	Compact
Matte aluminum	WS-9133-SNG	WS-9233-SNG	WS-9733-SNG
Matte aluminum + override	WS-9133-SNGV	WS-9233-SNGV	---
Matte black	WS-9133-KNG	WS-9233-KNG	WS-9733-KNG

The ENFORCER Pulse-Series Outdoor Wave-to-Open Sensors are full-featured exit plates using IR technology to operate with the simple wave of a hand, reducing risk of contamination and thus a good choice for use in hospitals, clinics, labs, cleanrooms, schools, factories, and elsewhere. Their slim-profile surface mount makes them suitable for installation almost anywhere. Some models available with manual override button in case the sensor is disabled.

- Slim profile for clean, unobtrusive mounting and oversized LED indicator for enhanced visibility
- Clean, no-touch; just wave to exit
- Selectable LED standby/activated colors – red/green or green/red
- Pulse series – LED slowly pulses on/off to visually confirm operation (red standby only)
- Hand gesture programming – use hand gestures to set LED standby/activated colors and pulse on/off without tools or removing from wall
- Built-in timer: 0.5~30 sec, toggle mode and adjustable sensor range of 2³/₈"~12" (6~30 cm)
- CNC machined aluminum housing for strength and durability in matte aluminum or matte black
- Override button is internally prewired for simple installation
- IP67 weatherproof, epoxy-sealed components

Parts List

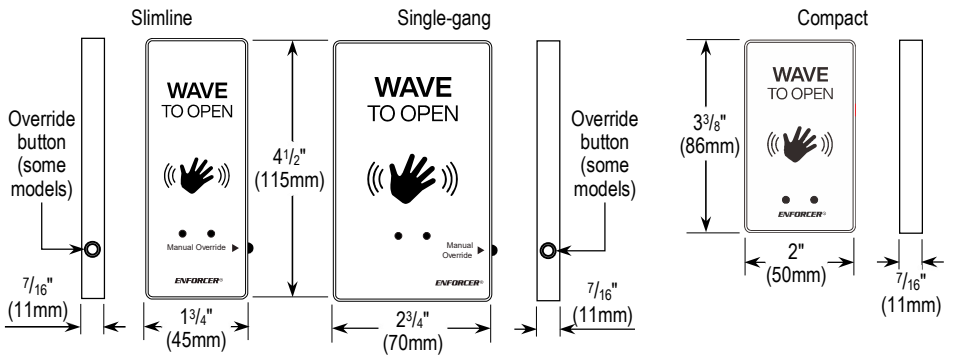
1x Sensor 2x Mounting screws 2x Plastic wall anchors 1x Screwdriver 1x Manual

Specifications

Model (WS-Series)	9133-SNG	9133-SNGV	9133-KNG	9233-SNG	9233-SNGV	9233-KNG	9733-SNG	9733-KNG
Faceplate type	Slimline			Single-gang			Compact	
Color (matte finish)	Aluminum		Black	Aluminum		Black	Aluminum	Black
Override button	No	Yes	No		Yes	No		
Operating voltage	12~24 VDC							
Current Standby	40mA@12VDC							
draw (max.) Active	60mA@12VDC							
Outputs	Type	Form C (SPDT)						
	Rating	2A@24VDC						
	Duration	0.5~30 sec, toggle (default – 0.5s, adjustable by potentiometer)						
Sensor	Type	Infrared (IR)						
	Range	23⁄8"~12" (6~30 cm) default – 12" (30cm)						
	Response	10ms						
LED Indicator	Dual-color, standby – red* / activated – green (default, can be reversed)							
Connectors	5 Colored wires							
Cable length	(14cm)							
Operating life	500,000 Switch cycles							
IP Rating	IP67 Waterproof (epoxy-sealed components)							
Operating humidity	0~95%, non-condensing							
Operating temperature	32°~167° F (0°~75° C)							
Material	CNC Machined aluminum alloy							
Dimensions	13⁄4"x41⁄2"x7⁄16" (45x115x11 mm)			23⁄4"x 41⁄2"x7⁄16" (70x115x11 mm)			2"x33⁄8"x7⁄16" (50x86x11 mm)	
Weight	3.5-oz (99g)			5.5-oz (156g)			2.7-oz (77g)	

*Pulse mode can only be activated when red, standby / green, activated is set.

Overview



Installation

Please read the entire manual instructions before beginning installation.

1. Remove the housing screw and remove the back bracket (see Fig. 1).
2. Using the back as a template, mark and drill wiring and mounting holes.
3. Run 4 wires from the access control system or lock to the sensor.
4. Attach the bracket to the mounting surface (screws and wall anchors included).
5. Connect the wires as appropriate for your system (see *Sample Wiring Diagrams*, pg. 4).
6. Apply power and adjust the sensor range and output duration as needed (see below).
7. Enable pulse mode or change standby LED color if desired (see below).
8. Carefully push the wiring through mounting hole, taking care not to loosen wiring connections and replace the sensor onto its back bracket, securing with the security screw and test.

Fig. 1



Adjusting the Sensor Range and Output Duration

Both the sensor range and output duration can be adjusted using their respective potentiometers on the back of the sensor (see Fig. 2).

Sensor Range



Sensor range: 2 $\frac{3}{8}$ "~12" (6~30 cm)
Default: 12" (30cm), turn counterclockwise to decrease

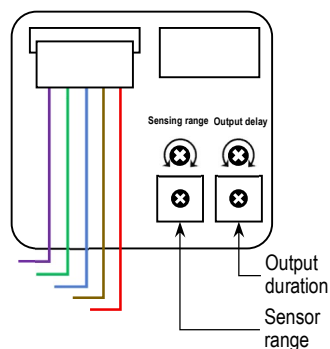
Output Duration



Output duration: 0.5~30 seconds, toggle*
Default: 0.5 seconds, turn clockwise to increase

*Toggle: Turn clockwise to maximum position.

Fig. 2



NOTE: Do not force the adjustment trimpots to turn. Only minimal force is needed.

Gesture Programming

NOTE: To ensure accurate hand gesture reading, do not allow any object to enter the sensor range within 30 seconds before starting hand gesture programming.

Changing the Standby LED Color

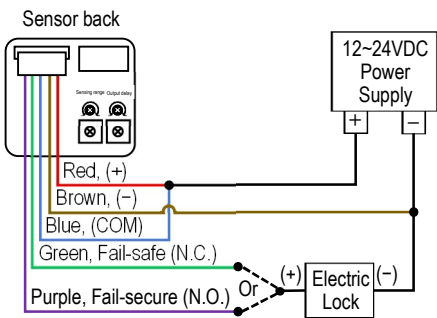
To switch the LED colors (factory default – red / green) wave a hand in front of the sensor 6 times in 10 seconds, holding the hand in place the 6th time until the LED blinks twice.

Turning Pulse Mode ON/OFF

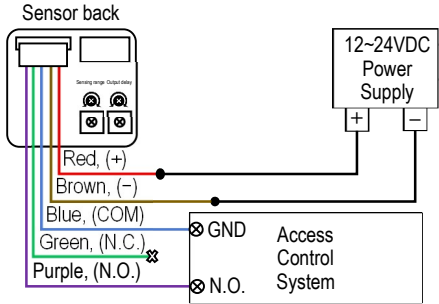
In pulse mode (factory default – OFF), the LED slowly fades from on to off during standby (red standby only). To toggle ON/OFF, wave a hand in front of the sensor 4 times in 10 seconds, holding the hand in place the 4th time until the LED blinks twice.

Sample Wiring Diagrams

To Electric Door Strike or Magnetic Lock



To Access Control System



NOTE: Button connections for models with the Manual Override Button are already prewired internally and thus the wiring diagram is the same for all models.

Troubleshooting

Sensor triggers unexpectedly	• Ensure that no strong direct or reflected light source is reaching the sensor. • Ensure that sensor is sheltered from direct sunlight.
Sensor remains triggered	• Check that nothing is in range of the sensor, including a 60° cone from the centerline. • Reduce the IR range of the sensor. • Ensure that the sensor's output duration potentiometer is not turned to maximum • Check that the power voltage is within the sensor's specifications.
Sensor will not trigger	• Increase the IR range of the sensor. • Check that the power voltage is within the sensor's specifications.
Hand gesture not working	• Wait 30 seconds without triggering the sensor and try again.

IMPORTANT WARNING: For a weather-resistant installation, ensure that the unit is installed so that water cannot seep into the mounting surface behind the device through the wiring hole. Incorrect mounting may lead to exposure to rain or moisture inside which could cause a dangerous electric shock, damage the device, and void the warranty. Users and installers are responsible for ensuring that this product is properly installed and sealed.

IMPORTANT: Users and installers of this product are responsible for ensuring that the installation and configuration of this product complies with all national, state, and local laws and codes. SECO-LARM will not be held responsible for the use of this product in violation of any current laws or codes.

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SECO-LARM® U.S.A., Inc.

16842 Millikan Avenue, Irvine, CA 92606
Phone: (949) 261-2999 | (800) 662-0800

Website: www.seco-larm.com
Email: sales@seco-larm.com