Specifications:

Model Number	**E-931CS22RRC**
Type	Retro-Reflective Photoelectric Entry Alert System
Sensing Range	22' (7 m)
Voltage Supply	Sensor: 8-13 VDC, Chime: 12VDC
Total Current Consumption	100mA Max.
Stand-by Current	30mA
Light Source	IR LED
Control Output	Relay (AC 120V/DC 24V, 2A)
Ambient Temperature	-4^{0}F (-20^{0}C) ~ 122^{0}F (50^{0}C)
Speaker Response Time	~1 sec. for Chime, 30 sec. for Alarm
Speaker Volume	Adjustable from 0 ~ max.
Alarm Time Range	Adjustable 3 ~ 30sec. for alarm
External Chime Output	Ground output (100mA)
Speaker Output	Chime / Off /Alarm (Select by switch)
Mounting Brackets	All Included

Troubleshooting:

Trouble	Possible Origin(s)	Remedy(s)
Sensor does not detect the object.	Sensor not aligned properly.	Change the angle of the sensor or reflector.
Red LED does not turn on.	1) Reflector and/or sensor is misaligned. 2) No power.	1) Adjust the reflector and/or sensor for proper alignment 2) Check power adapter and cable.

Dimensions:

ENFORCER®
Sensor

Retro-Reflective Photoelectric Sensor Entry Alert System

E-931CS22RRC
## Range: 22ft. (7m)

INSTALLATION MANUAL

Features:

- Retro-reflective photoelectric sensor.
- Range: Up to 22 feet (7m).
- Perfect for monitoring an entrance, or for counting foot traffic with optional counter.
- Will make "ding-dong" sound or siren sound when the beam is interrupted.
- Speaker volume can be adjusted or turned off.
- When in siren mode, sounding time is adjustable from 3 to 30 seconds.
- 9VDC adapter included.

- All components plug into each other. No hard wiring required.
- Optional counter available (E-931ACC-C).
- Optional second speaker available (E-931ACC-S).
- Includes the following:
    — Retro-reflective photoelectric sensor.
    — Reflector.
   — Speaker/electronic chime.
    — 9VDC adapter.

Caution:

- This sensor was not designed to prevent bodily injury or loss of life.
- Use of this sensor in certain security applications may be regulated by local laws or codes. SECO-LARM is not responsible for compliance with such laws or codes.

Included:
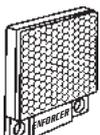
E-931ACC-R
Reflector
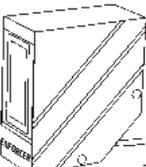
E-931CS22RRC
Transmitter/Receiver

Adapter

E-931ACC-S
Speaker/Electronic Chime
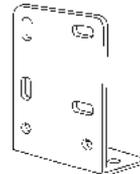
E-931ACC-BLS4
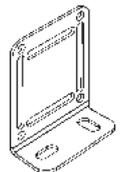
E-931ACC-BLR1

Sample Installations:

Store front door

Main entrance door

Garage door
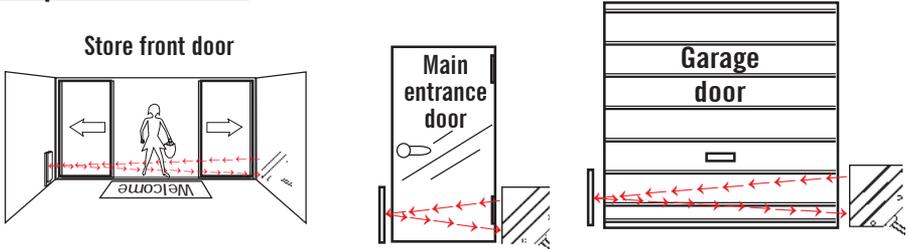
Other possible applications: Offices, stores, schools, warehouse, vehicle detection, etc.

Wiring: (one speaker, no counter)

Sensor   Adaptor   Speaker

Up to 22' (7m)

Reflector

DC 9V

Input
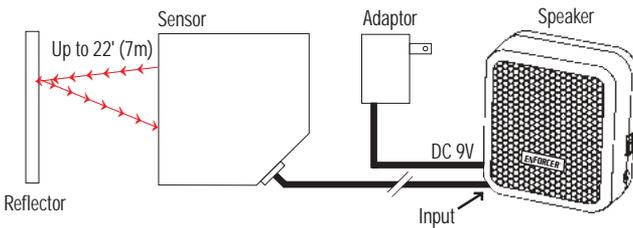
Wiring: (one speaker, with optional counter)

Sensor   Adaptor   Speaker   Counter (optional)

Up to 22' (7m)

Reflector

DC 9V

Input

Output
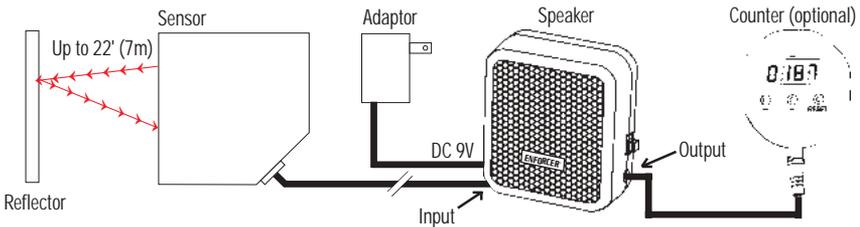
Wiring: (with optional counter and second speaker)

Sensor   Adaptor   Speaker   Speaker (optional)   Counter (optional)

Up to 22' (7m)

Reflector

DC 9V

Input

Output

Input
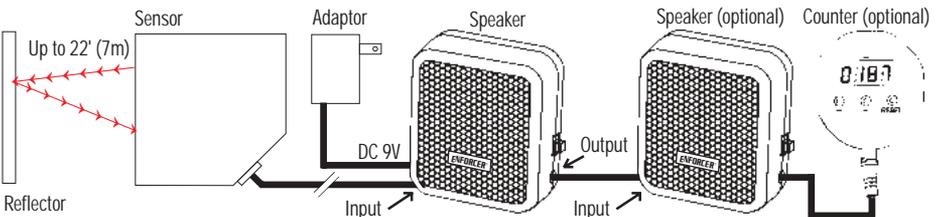
Mounting the Reflector:

Sample Fixed Mounting:
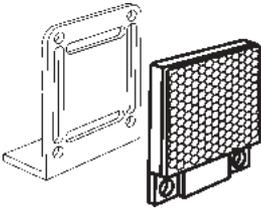
Mounting the Sensor:
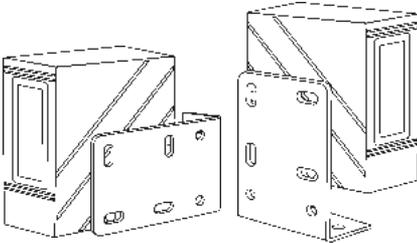
Installation and Adjustment:

LED Functions:

RED LED -   When ON, it indicates the sensor is powered and aligned properly.

Installation:

1. Mount the reflector and sensor so they face each other at about 2' off the ground or knee high.
2. Connect the sensor to the speaker.
3. Connect power adaptor to the speaker.
   - For signalling in multiple rooms, add an optional second speaker (E-931ACC-S).
   - Connect an optional counter (E-931ACC-C) to the speaker output (if desired).
4. To find the correct alignment, slowly adjust the angles of the sensor and/or reflector up and down and right and left.

NOTE: Correct alignment is reached when red LED turns ON.

Set Speaker Mode:

After the sensor and reflector have been properly installed, the next step is to set the speaker mode.

1. Choose between "Chime" or "Alarm" sound or "OFF".
2. If "Alarm" was chosen:
   A. Set speaker to Alarm
   B. Adjust the alarm sounding time from 3 to 30 seconds.
   C. Set speaker Volume.

Mounting the Speaker/Electronic Chime:

Sample Fixed Mounting:
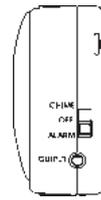
Sample Bracket Mounting:

Adjusting the Speaker/Electronic Chime:

Wall mount hole

Bracket mounting holes

Switch

Switch: Chime/ OFF/Alarm
Timer: 3 ~ 30 Sec.s
Volume: 0 ~ max
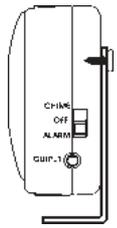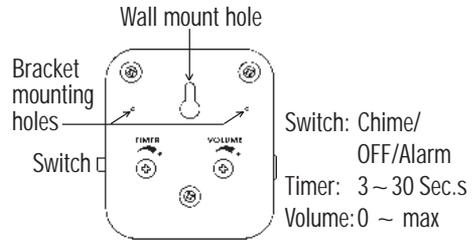
3. If "Chime" was chosen: Set speaker to Chime
4. If "OFF" was chosen:
   A. Set speaker to OFF
   B. The speaker will not sound when the beam is broken.

Using the Optional Counter:

1. Automatically increases by "1" when sensor is triggered.
2. Manually add "1" by pressing " + ".
3. Manually subtract "1" by pressing " – ".
4. Reset counter by pressing "RESET."

Testing:

1. Power up the sensor and speaker. The red LED should be ON.
2. Pass object to be detected between the sensor and reflector. The red LED should turn OFF and the speaker (if connected) should sound.

Red LED