**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
- E-931ACC-BLS4 Adapter
- E-931ACC-S Speaker/Electronic Chime
- E-931ACC-BLR1
Specifications:

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

Troubleshooting:

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

Dimensions:

NOTICE: The information and specifications printed in this manual are current at the time of publication. However, the SECO-LARM policy is one of continual development and improvement. For this reason, SECO-LARM reserves the right to change specifications without notice. SECO-LARM is also not responsible for misprints or typographical errors.

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WARRANTY: ENFORCER Photobeam Sensors are warranted against defects in material and workmanship while used in normal service for a period of one (1) year from the date of sale to the original customer. Our obligation is limited to the repair or replacement of any defective part if the unit is returned, transportation pre-paid, to SECO-LARM.
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
- Reflector
- Adaptor
- Speaker

- Up to 22’ (7m)
- DC 9V
- Input

### Wiring: (one speaker, with optional counter)

- Sensor
- Reflector
- Adaptor
- Speaker
- Counter (optional)

- Up to 22’ (7m)
- DC 9V
- Input
- Output

### Wiring: (with optional counter and second speaker)

- Sensor
- Reflector
- Adaptor
- Speaker
- Speaker (optional)
- Counter (optional)

- Up to 22’ (7m)
- DC 9V
- Input
- Output
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.
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.