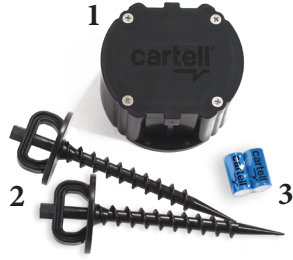


CW-SEN SENSOR ONLY

VERSION 1 - SEPTEMBER 2025

1. WHAT'S IN THE BOX

1. Sensor "Puck"
2. Auger Screws (2)
3. CR123A Batteries(2)



2. SERIAL NUMBER

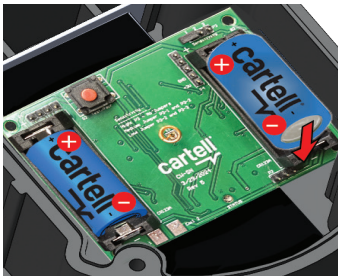
There is a bar code serial number on the bottom of puck, and on product box. When calling to talk about your product, please have one of these numbers handy.



PRODUCT CODE YEAR MADE SERIAL NUMBER

3. INSTALLING BATTERIES

1. Use CR123A batteries and match polarity with battery terminal in puck.
2. If batteries are put in backwards, they will not make contact.
3. Push batteries in place fully to make contact.
4. Sensor will power up automatically when batteries are installed.



LOW BATTERY

When batteries need to be replaced in sensor, the LED on Integrator and sounder will remain a constant RED. If Integrator is hooked to external system's zone inputs, whatever is programmed will occur.

REPLACE BOTH BATTERIES AT SAME TIME. DO NOT USE RECHARGEABLE BATTERIES.

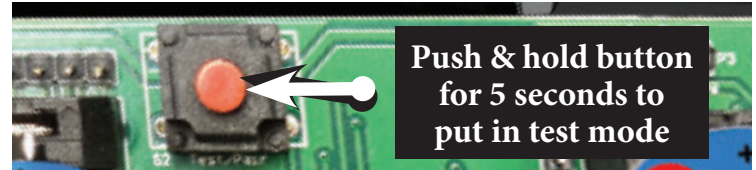
CLEAN SENSOR BRIM, LID, & LID GASKET BEFORE SCREWING LID TO HOUSING.

4. TEST MODE FOR SENSOR PUCK

See illustration top right

Test mode allows the sensor puck to be tripped without a vehicle. This is useful when testing radio range (see #5 below) and solo installations.

1. Press and HOLD button on sensor puck for **5 seconds**
2. The red LED will be solid and dim while waiting the 5 seconds
3. Once the 5 seconds has expired, the LED will be bright red
4. Test mode is activated when the button is released
5. The sensor will trip itself every 15 seconds
6. Test mode will be exited when button is pressed again
7. Test mode will automatically be exited after 30 minutes



5. TESTING RADIO RANGE

Your system has a radio range of 350 - 1000 ft. line-of- sight. To gauge range in your application, test before installing:

1. Put receiver (Integrator, sounder, etc.) near its installation place in home or gate.
2. Confirm the Integrator, sounder, etc. is sounding.
3. Put sensor in test range mode (see #4 above).
4. Listen for receiver to trigger. If it doesn't, move sensor closer.
5. Test again with puck installed in ground (see #7 below).
6. You may need to add a repeater inside home.

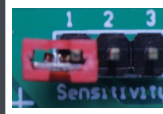
6. SETTING SENSOR SENSITIVITY

ONLY ADJUST (LOWER) SENSITIVITY IF PUTTING IN MIDDLE OF DRIVEWAY (see #7 below). IN ALL OTHER CASES USE DEFAULT.

SENSITIVITY ADJUSTMENT

HIGH (Default)

Detects vehicle at **5 MPH** 12-14'
Jumper on #1



MEDIUM

Detects vehicle at **5 MPH** 6-8'
Jumper on #1&2

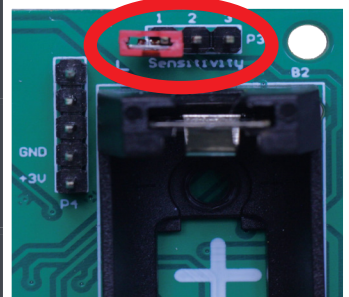


LOW

Detects vehicle at **5 MPH** 2-4'
Jumper on #2&3



DEFAULT IS HIGHEST SENSITIVITY



Jumper color may vary.

Technical Specifications

Power Required	2 - CR123A batteries
Stand-By Current	22 μ A
Alarm Current	130 mA
Radio Range	Above ground line of sight up to 2,500 ft. In the ground line of sight up to 1,000 ft.
Battery Life	1-3 years
Enclosure Rating	IP68
Strength Rating	9.39 tons-force (8514 kgf)
Temperature Range	-25° F. - +140° F. (-32° C. - 60° C.)
Dimensions	4.5" dia. x 2.5" H (11.43 cm x 6.35 cm)
Weight	2 lbs. (.90 kg)

7. INSTALLING SENSOR PUCK

The sensor puck can be installed in the driveway, in the ground, or on an immovable object (post, tree, etc.).

ON AN OBJECT (see illustration below)

1. Test range (#5 above), attach lid securely to puck, leaving no gap between lid and puck. Do not over-tighten or strip screws.
2. Find a tree, or post, etc. directly beside the driveway.
3. Choose an immovable tree or post to avoid false alarms.
4. Use the holes in puck's the tabs to screw puck to the object.

IN THE GROUND (see illustration below)

1. When range has been tested (see #5 above), attach to the puck. Be careful not to strip screws. There should be no gap between lid and puck.
2. Find a spot directly beside driveway.
3. Dig a hole big enough for puck and auger screws, leveling puck's lid with surface of dirt.
4. Screw auger screws to puck's bottom tabs. If you fail to secure puck, lawn mowers, etc. will pull/suck it up.
5. Pack dirt around puck. Keep lid & gasket clean.

IN THE DRIVEWAY (see illustration below)

1. When range has been tested (see #5 above), attach lid to puck. Do not over-tighten or strip screws. There should be no gap between lid and puck.
If close to cross traffic, turn sensitivity down (see #6 above)
2. Use a 4.5" diameter masonry hole saw to bore a hole in driveway. Bore at least 2.75" deep so puck lid will be 0.25" - 0.50" below surface (to keep safe from plows, graters, etc.).
3. Pour loop sealant in hole and drop puck in hole.
4. Hold puck down with weight until sealant becomes firm.
5. To access batteries, DO NOT pour sealant over lid or bosses.



SENSOR DETECTS A PASSING VEHICLE GOING 5 MPH. PLACE SENSOR AT LEAST 50 FT. AWAY FROM GATE.

CONTACT INFORMATION

Tech Support	717-532-0033, option 1
Sales	717-532-0033, option 2
Shipping	717-532-0033, option 3
Accounting/POs	717-532-0033, option 4
Ordering (Distributors)	Send POs to: orders@cartell.com

THREE YEAR WARRANTY

All Cartell products are warranted against defects in material and workmanship for three years. This warranty does not cover defects caused by, but not limited to: acts of God, improper installation, abuse, fire damage, electrical surges, integrated system failures, improper lid/gasket/battery installation, over-tightening screws, and stripping screw holes. For more information, visit our website.



WARNING: DO NOT SHIP BATTERIES WHEN RETURNING PRODUCT TO CARTELL.

TROUBLE SHOOTING/TECH SUPPORT

BEFORE CALLING TECH SUPPORT:

1. Be at the installation site
2. Have serial number available
3. Be able to explain symptoms
4. Have Cartell app displayed on your phone (if applicable)
5. Call 717-532-0033, option 1

We will troubleshoot over the phone.

Business hours: Monday - Friday, 8:30 a.m. - 5:00 p.m. (ET)

FCC WARNING

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that of the receiver.
- Consult the dealer or an experienced radio/TV technician for help.

To maintain compliance with FCC's RF Exposure guidelines, This equipment should be installed and operated with minimum distance between 20cm the radiator your body: Use only the supplied antenna.

IC Caution (Canada): This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference; (2) this device must accept any interference, including interference that may cause undesired operation of the device.

This Class [B] digital apparatus complies with Canadian ICE-003.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes: (1) l'appareil ne doit pas produire de brouillage, et; (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Cet appareil numérique de la classe [B] est conforme à la norme NMB-003 du Canada. L'appareil a été évalué pour répondre aux exigences générales d'exposition RF. L'appareil peut être utilisé dans des conditions d'exposition fixes / mobiles. La distance de séparation minimale est de 20 cm.

The device has been evaluated portable device RF exposure requirements. The device is kept at least 5 mm away from the user's body.

FCC#: 2AUXCCWSOU/INT/SN (U.S.)
IC#: 25651-CWSOU/INT/SN (Canada)

E3957
AUSTRALIA



WARNING: This product can expose you to chemicals including Acrylonitrile, which is known to the State of California to cause cancer. For more information, go to www.P65Warnings.ca.gov.

