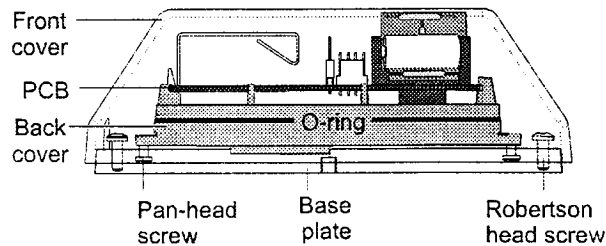


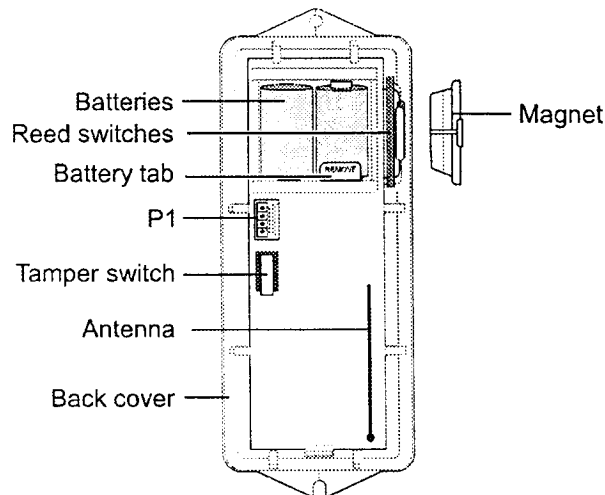
IntelliSense® SN931-OUTDOOR TRANSMITTER Installation Instructions

Description

The SpreadNet® SN931-OUTDOOR TRANSMITTER is a wireless magnetic contact device, designed for outdoor use. The main parts of the TRANSMITTER are shown below.



The components of the TRANSMITTER's PCB are as follows:



When the external magnet rests against the TRANSMITTER, one or more of the TRANSMITTER's three internal reed switches closes. When the magnet is removed, the switches open and the transmitters sends a signal to the system's radio-frequency (RF) receiver.

Mounting location

Choose a mounting location on the frame of the protected door or window that is:

- as high as possible
- more than six inches from any RF transmitter
- away from large metal objects (like window screens, metal doors, metal window frames, circuit breaker boxes, air ducts), since metal can block or distort the transmitter's RF signal
- at least four feet from the receiver.

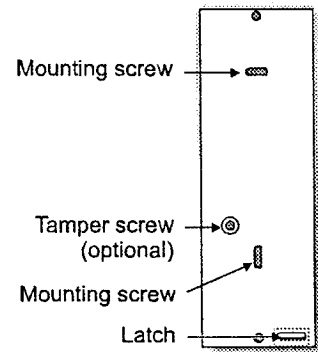
The TRANSMITTER's nominal Break Gap is 5.6 cm (2-1/4 in.) while its Make Gap is 5 cm (2 in.). The Break Gap is the minimum distance the magnet must be moved away from the contact before the switches open. The Make Gap is the maximum distance the magnet can be from the contact before the switches close. These values can vary, depending on site conditions.

Mount the base plate

For best results, test the transmitter before mounting it permanently. (The test procedure is described in the "Scan for One Transmitter" section of the SN900-PROG RF Programming Manual P/N 5-051-136-00.) If the test results are unsatisfactory, relocate the transmitter and repeat the test.

The transmitter can be mounted vertically or horizontally with equal effectiveness. To mount the TRANSMITTER's base plate, do the following:

1. Remove the two Robertson head screws from the ends of the housing. Open the housing by inserting a screwdriver into the latch opening on the TRANSMITTER's front cover. Pivot the screwdriver until the latch releases.
2. Separate the base plate from the rest of the transmitter. Use it as template to mark the mounting holes as shown.
3. Remove the base plate from the wall and drill the pilot holes.
4. Secure the base plate to the wall with #8 (M4) pan-head or hex-head screws (not provided).



Optional tamper protection

The TRANSMITTER is automatically monitored for cover tamper conditions. To monitor for wall tamper conditions as well, do the following:

1. Remove the protruding tamper knockout from the base plate.
2. Insert a #8 screw into the opening that is created when the knockout is removed. Adjust the height of the screw head to ensure good contact with the TRANSMITTER's circuitry.

Activate the transmitter

To activate the transmitter, do the following

1. Separate the back cover and PCB from the front cover by removing the pan-head screws.

CAUTION Do not touch the antenna on the PCB. If the antenna is bent or damaged, the transmitter could be damaged or its range could be significantly reduced.

2. Apply power to the TRANSMITTER by removing the battery tab.
3. Program the TRANSMITTER as described in the SN900-PROG Programming Manual (P/N 5-051-136-00).

Label the TRANSMITTER

When you have finished programming the TRANSMITTER, make a note of its programming on the label that is provided, and affix this label to the back cover. The information on this label will make it easier to maintain and repair the system in the future.

A completed Transmitter Device ID Label contains the following information:

P.CODE	1124
CHANNEL	1
ZONE	06
DEVICE	03
CHECK-IN	60
BATTERY	9/9/01

- P. CODE:** the system's property code
CHANNEL: the system's channel (either 1 or 2)
ZONE: the zone number assigned to the transmitter
DEVICE: the device number assigned to the transmitter
CHECK-IN: the frequency at which supervisory signals are sent
BATTERY: the date the batteries were installed

Reassemble the TRANSMITTER

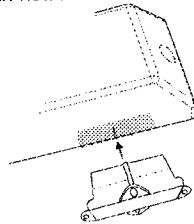
Once you have labeled the TRANSMITTER, put it back together by doing the following:

1. Apply a small amount of Chemplex® 10 grease to the o-ring on the back cover to enhance the TRANSMITTER's weatherproof seal.
2. Insert the PCB and its back cover into the front cover. Screw the covers together, using the two pan-head screws. (If you have difficulty reassembling the covers, verify that you have aligned the covers properly; they will not fit together properly if one is upside down.)
3. Snap the TRANSMITTER onto its base plate. Use the Robertson screws to secure the unit in place.

Mount the magnet

Mount the magnet, using with #8 (M4) pan-head or hex-head screws (not provided).

Be sure to align the center of the magnet with the mark on the transmitter, as shown.



Align magnet to TRANSMITTER

Maintenance

For continued reliability, the SN931-OUTDOOR TRANSMITTER should be tested at least once a year.

Replace the batteries in the TRANSMITTER either after it reports a low battery condition, or after five years of use, whichever

comes first. The TRANSMITTER takes two ½ AA lithium batteries.

FCC Notice

The Model SN931-OUTDOOR TRANSMITTER generates and uses radio frequency energy. If not installed and used in accordance with the manufacturer's instructions, it may cause interference to radio and television reception. The transmitter has been tested and found to comply with the specifications in Part 15 of FCC Rules for Class B Computing Devices and FCC Part 15 Subpart C, Specifications for Intentional Spread Spectrum Radiators.

If this equipment causes interference to radio or television reception - which can be determined by turning the equipment on and off - the installer is encouraged to correct the interference by one or more of the following measures: 1) Reorient the antenna of the radio/television. 2) Connect the AC transformer to a different outlet so the control panel and radio/television are on different branch circuits. 3) Relocate the control panel with respect to the radio/television.

If necessary, the installer should consult an experienced radio/television technician for additional suggestions.

Caution: IntelliSense does not support field changes or modifications to any of the SpreadNet RF equipment unless they are specifically covered in this manual. All adjustments must be made at the factory under the specific guidelines set forth in our manufacturing processes. Any modification to the equipment could void the user's authority to operate the equipment and render the equipment in violation of FCC Part 15, Subpart C, 15.247.

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.

Specifications

Dimensions of transmitter L x W x D	16.0 cm x 5.8 cm x 5.2 cm 6.3 in. x 2.3 in. x 2.0 in.
Dimensions of magnet L x W x D	7.9 cm x 3.1 cm x 1.9 cm 3.1 in. x 1.2 in. x 0.8 in.
Input power	Two 3.6VDC ½ AA lithium batteries Replace batteries only with P/N 1-000-931-01 IntelliSense Model: # SN31L-BAT SAFT Models: # LS3 or LS1425
Weight	270 g (9.5 oz.) with magnet
Operating environment	0° to 60° C (32° to 140° F) Up to 95% relative humidity (non-condensing)
Operating frequency	902-928 MHz Spread Spectrum
RF emission standards	USA: FCC Part 15 CANADA: IC R55-210
Supervisory rate	30 - 300 sec (10 sec intervals) O is unsupervised
Magnet assembly	PN: 0-000-089-01