

1131 Wireless Recessed Contact

Description

The 1131 is a wireless recessed contact that provides concealed protection for doors, windows or any other application needing a discreet contact. As with all DMP 1100 Series transmitters, the on-board LED provides built-in survey capability to allow for single-person installations, eliminating the requirement for an external survey kit. The 1131 transmits Normal, Alarm and Low Battery conditions.

Compatibility

The 1131 Recessed Contact operates with the XR500 Series Command Processor™ panels or XR100 Series Command Processor™ panels using the 1100X, 1100XI or 1100XH Receiver or with the XRSuper6, XR20, and XR40 Command Processor™ panels using the 1100D, 1100DI or 1100DH Receiver.

What is Included

The 1131 Recessed Contact includes the following items:

- One 1131 in a two-part housing consisting of the transmitter housing and face plate
- One Magnet with housing
- One 3V Lithium CR12600SE Battery
- Hardware pack
- Zone name and number label
- Serial number label
- Optional blank face plate for pre-installation fitting

Serial Number

For your convenience, an additional pre-printed serial number label is included. Prior to installing the device, record the serial number or place the pre-printed serial number label on the panel programming sheet. This number is required during programming. As needed, use the zone name and number label to identify a specific transmitter.

Programming the Contact in the Panel

Refer to the XR500 Series Programming Guide (LT-0679), XR100 Series Programming Guide (LT-0896), or the XRSuper6/XR20/XR40 Programming Guide (LT-0305) as needed. Program the contact as a zone in **Zone Information** during panel programming. At the Serial Number: prompt, enter the eight-digit serial number, including leading zeros. Continue to program the zone as directed in the panel programming guide.

Note: When a receiver is installed, powered up, or the panel is reset, the supervision time for transmitters is reset. If the receiver has been powered down for more than one hour, wireless transmitters may take up to an additional hour to send a supervision message unless tripped or tampered. This operation extends battery life for transmitters. A missing message may display on the keypad until the transmitter sends a supervision message.

Selecting the Proper Location (LED Survey Operation)

The 1131 provides survey capability to allow one person to confirm transmitter communication with the receiver before installation. The 1131 Red Survey LED turns on whenever data is sent to the receiver then immediately turns off when the receiver acknowledgement is received. Using the contact magnet is a convenient way to send data to the receiver to confirm operation. When the magnet is moved away or brought towards the contact, the LED blinks once to indicate proper communication. When the transmitter does not receive an acknowledgement from the receiver the LED remains on for about 8 seconds to let you know communication is not established. Communication is also faulty when the LED flashes multiple times in quick succession. Relocate the contact or receiver until the LED immediately turns off indicating the transmitter and receiver are communicating properly. Proper communication between the transmitter and receiver is verified when each time the magnet is moved within 1/2 inch of the transmitter or pulled away from the transmitter. Refer to the 1100 Series Receiver installation for full information about the survey LED.

Mounting the Recessed Contact

For contact operation, the transmitter and magnet assembly should have a maximum of 1/2 inch between the housings after installation. Refer to the Travel Distance section for additional information. When mounting on metal (ferrous) surfaces, this distance is slightly less. For door installations, it is recommended the transmitter be mounted in the door frame and the magnet assembly be mounted in the door. If the transmitter is installed in a metal door frame, the communication distance to the receiver may be reduced.

Installing the Recessed Transmitter and battery assembly

1. Verify transmitter communication using the Survey LED function. Then using a 5/8" drill bit, drill a hole at least 4 1/4" deep in the frame at the desired location. Refer to Selecting the Proper Location.
Caution: Be aware of any electrical wiring that may exist in the wall and avoid drilling in that area.
2. Insert the transmitter housing into the hole and trace around the edge of the flange with a pencil.
3. Remove the transmitter housing and using a standard wood chisel, score the edges of the outline and then remove the material from the center to a depth of 1/8".
4. Insert the transmitter and battery assembly with the reed switch orientated for the travel distance required. See Travel Distance.
5. Install the face plate on the front of the transmitter housing and secure with the included screws. Install the battery before final installation.

Installing the Magnet

1. Using a 5/8" drill bit, drill a hole at least 3/4" deep in the frame at the desired location.
2. Insert the magnet into the hole and press into place.

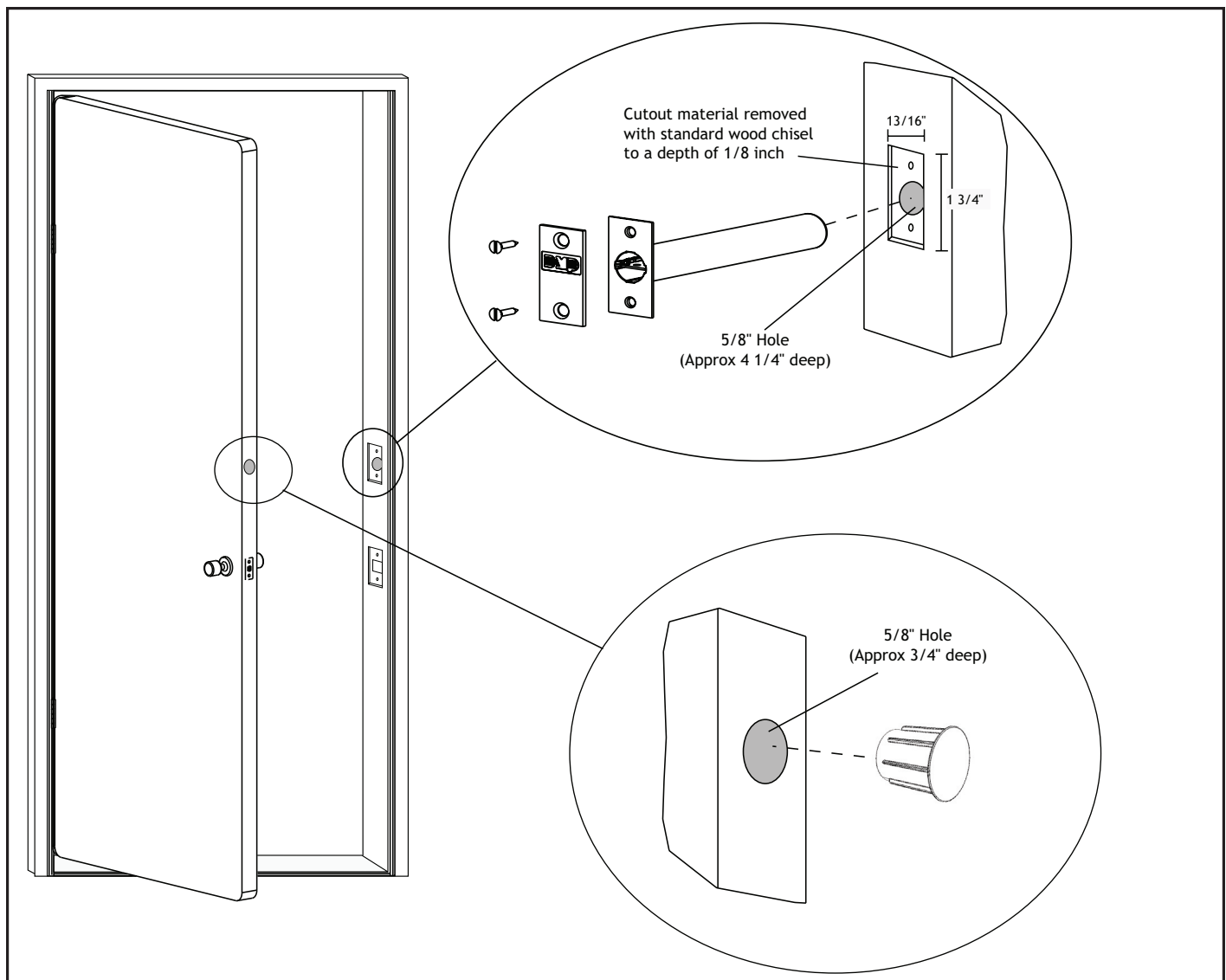


Figure 1: Installing the Recessed Contact

Travel Distance

The distance the door can travel when being opened before a fault condition is indicated by the transmitter is determined by the orientation of the transmitter assembly as it is inserted into the housing. The travel distance is determined by installing the transmitter with the reed switch on the top side of the PCB or on the bottom side of the PCB. The reed switch of the recessed contact is designed offset to one side of the PCB to allow two travel distance options. By installing the transmitter with the reed switch (up or down) so that it is closer to the travel direction of the door allows a 3/4 inch distance of travel. By installing the transmitter with the reed switch so that it is farther away from the travel direction of the door allows a 3/8 inch distance of travel. The travel distance of a sliding door application is 3/4 inch regardless of the reed switch orientation.

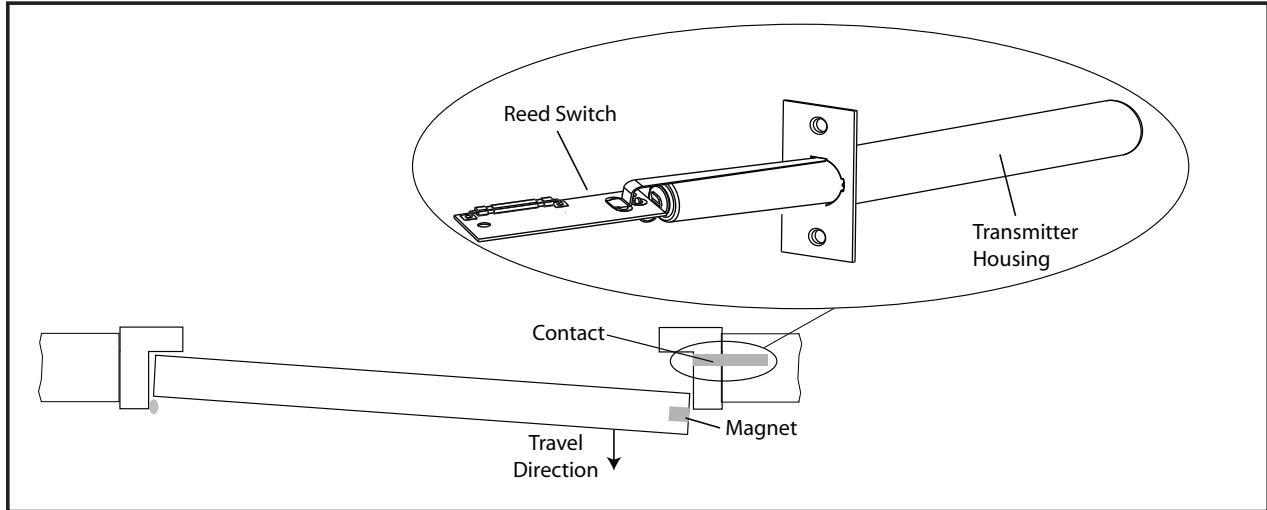


Figure 2: Left Hand Door Gap Distance

Installing or Replacing the Battery

Observe polarity when installing the battery. The negative end of the battery faces the transmitter printed circuit board. Use only 3.0V lithium batteries, DMP Model CR12600SE.

Note: When setting up a wireless system, it is recommended to program zones and connect the receiver before installing batteries in the transmitters.

1. If installed, remove the transmitter housing face plate.
2. Pull the transmitter and battery assembly from the housing. Gently pull by gripping the antenna and end of the printed circuit board with your fingers.
3. If replacing the battery, remove the old battery and dispose of it properly.
4. Place the 3.0V lithium battery in the holder as shown in Figure 3 with the negative end of the battery facing the transmitter printed circuit board and hold in place.
5. Slide the transmitter and battery assembly into the transmitter housing.
4. Install the face plate on the transmitter housing.



Caution: Risk of fire, explosion, and burns. Do not recharge, disassemble, heat above 212°F (100°C), or incinerate. Properly dispose of unused batteries.

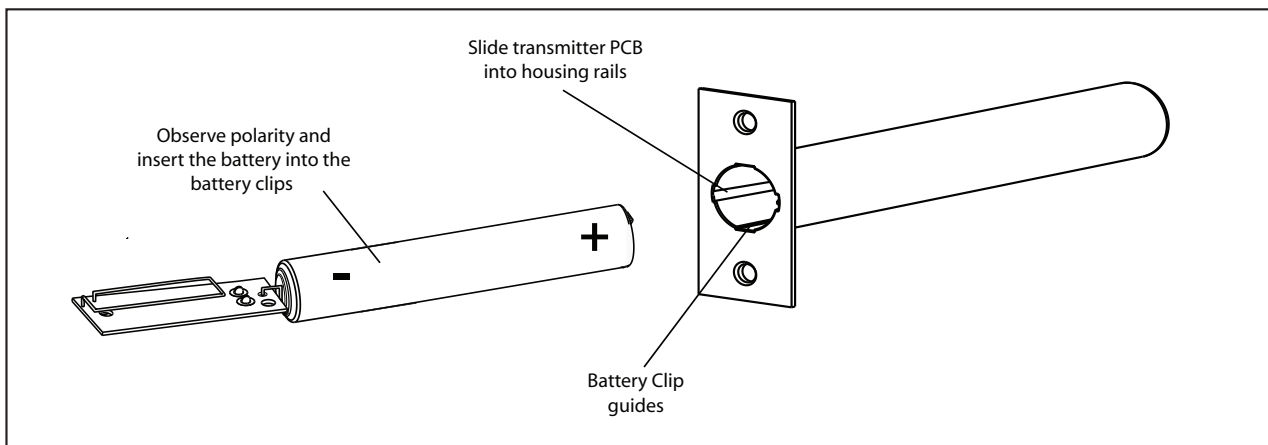


Figure 3: Replacing the Battery

Battery Life Expectancy

Typical battery life expectancy for DMP Model 1131 wireless transmitters is 5 years. DMP wireless equipment uses two-way communication to extend battery life.

The following situations can reduce battery life expectancy:

- Receiver is unplugged or not installed.
Note: Transmitters continue to send supervision messages until a receiver returns an acknowledgement. After an hour the transmitter only attempts a supervision message every 60 minutes.
- Frequent transmissions, such as a door that is opened and closed continuously.
- When installed in extreme hot or cold environments.

The following situation can extend battery life expectancy:

- Extend transmitter supervision time in panel programming.
- Infrequent transmission trips, such as a window that is rarely opened or closed.

FCC Information

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.

The antenna used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons. It must not be co-located or operated in conjunction with any other antenna or transmitter.

Changes or modifications made by the user and 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 to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Specifications

Battery	
Life Expectancy	5 years (normal operation)
Type	3.0V lithium CR12600SE
See Battery Life Expectancy for full details.	
Frequency Range:	903-927 MHz
Dimensions	
Housing	4.175" L x .55" DIA
Housing Flange	1.7" H x .80" W
Magnet Housing	0.7" L x 0.55" DIA
Color	White
Housing Material	Flame retardant ABS

Patents

U.S. Patent No. 7,239,236

Listings and Approvals

FCC Part 15 Registration ID: CCKPC0109
IC Registration ID: 5251A-PC0109



Digital Monitoring Products

800-641-4282

www.dmp.com

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2500 North Partnership Boulevard

Springfield, Missouri 65803-8877

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