ENROLLING FROM ELKR Software
1. Launch ELKR and open the desired Customer Account file.
2. If there are no wireless zones currently in this M1 then you will need to first enroll the wireless zones. In the folder on your computer right click on Zones and then click New Wireless Zones.
3. Place a check mark in the box beside the desired group, then click OK. Repeat if additional wireless groups are required. All expanded zones must be defined in groups of 16. The M1XRTFW wireless must always start at Zone 17 (Group 2) and the last wireless zone CANNOT be higher than Zone 230.
4. Note: M1 only allows Zones 17 to 160 to be used for wireless zones (max. of 144 wireless sensors). If a large number of wireless zones are expected, avoid conflict with any future Hardwired Zones in the range of zones 17 to 160 by NOT enrolling any Hardwired Zone Expanders (M1XON) at data bus address 10 or lower.

APPLICATION
The ELK-6023 Wireless Recessed Door Sensor is the ultimate wireless sensor device for discriminating customers. It mounts into a ¼" drilled hole in a wooden door jamb and becomes nearly invisible once the door is closed. It features Elk's Industry Leading Two-Way Technology with positive signal acknowledgment, extended range, and long battery life. It works with Wireless Transceivers and Controls that accept Elk's two-way technology; such as, the ELK-M1XRTFW. Each time the 6023 transmits it sends a unique TXID identifier and a Loop number.

SPECIFICATIONS:
Frequency: 902 MHz – 928 MHz frequency hopping
Dimensions: .75"D x 2.5"L
Mag: .75"D x 0.5"L

Maximum Operating Gap: 3/4" Operating Temperature: 32° to 120° F (-20° to 49°C)
Acceptable locations: Wood (non-metal) or vinyl doors only
Relative Humidity: 5-85% Non-Condensing
Battery: 3.6V Lithium 1/2 AA size

Note: M1 only allows Zones 17 to 160 to be used for wireless zones. The ELK-6023 Wireless Recessed Door Sensor is intended to be installed in accordance with:
The National Electrical Code, ANSI/NFPA 70.

IMPORTANT: An ELK-M1XRTFW Receiver must be installed and enrolled with the M1 Control before any attempt to install or enroll wireless sensors.

Sensor Location and Mounting
Mount the 6023 sensor in the door frame (jamb) and the magnet in the opposite door (or jam). An ideal spot is 4 to 6 inches down or over from the top corner of the door's (latch) side. Best wireless coverage is achieved by mounting the sensor at least 5 ft. above the finished floor. It is important for there be at least a 1/8" gap between the door and the jamb to accommodate the sensor and magnet mounting flanges. Note: A door’s weight will generally cause it to sag away from the hinge leaving the most gap at the top of the door on the latch (lock) side.

NEVER mount this sensor on the hinge side of a door as the opening gap may not be sufficient to cause an alarm. NEVER mount this sensor in a metal door or jam as metal will negatively affect wireless performance. Observe temperature and humidity specs. Do not install areas in high moisture/humidity zones.

Read and follow the directions below before attempting any installation, including drilling any holes. And use caution when drilling to avoid striking or drilling into any door glass or sidelights.

1. Carefully remove the sensor cover (end cap) using a small flat screwdriver or fingernail in the slot provided. Gently pry up guard wings being careful not to break.
2. Gently grasp the circuit board edges using fingertips ONLY and remove it from the housing. Non-metallic tweezers may be used if the board does not easily slide out.
3. Enroll the sensor board into the two of the methods in next section. After successful enrollment slide the circuit board back into the slots provided in the housing. Gently push back the Place the end cap.
4. Hold the sensor close to the desired location and verify that it operates properly. Do not drill any holes or mount the sensor until proper operation of the sensor has been confirmed.
5. At the mounting location draw a pencil line across the jamb from the door stop to the edge. Draw another line on the door edge opposite the one on the jamb. On both lines measure back a distance of 1/2 the thickness of the door and place vertical marks. These will be the centerline points. Be sure to allow for the thickness of any weatherstripping that may be present.
6. Use a sharp brad point or paddle bit to drill a hole 3/4" diameter by 1" deep at centerline mark. Remove any sawdust and press fit the magnet into the hole. A small drop of RTV sealant may also be used to hold it in place.

BATTERY WARNING: Risk of fire, explosion and burns. Do not attempt to recharge or disassemble. Do not incinerate or expose to heat above 212° F (100°C). Dispose of used batteries properly. Keep away from children.

NOTE: ELK PRODUCTS IS NOT RESPONSIBLE FOR ANY CHANGES OR MODIFICATIONS NOT EXPRESSLY APPROVED BY THE PARTY INCUMBENT THE PARTY OF THE CONTRACT.

ELK-6023 Wireless Recessed Door Sensor
FCC and IC COMPLIANCE STATEMENT:
This device complies with Part 15 of the FCC Rules and Industry Canada license-exempt RSS standards. 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.

WARNING: This equipment must be used in accordance with the Canadian ICES-003 standard. The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user’s authority to operate the equipment.

Limited Warranty
The 6023 Wireless Recessed Door Sensor is warranted to be free from defects and workmanship for a period of 2 years from date of manufacture. Batteries used with wireless devices are not warranted. Elk makes no warranty, express or implied, including that of merchantability or fitness for any particular purpose with regard to batteries used with wireless devices. Refer to Elk’s website for full warranty statement and details.

Battery Installation and Replacement
Low Battery warning will be transmitted when the sensor battery needs to be replaced. Approved 3.6V Lithium batteries are:

- Xeno XL-690F
- Xeno XL-695F

- Carefully remove the sensor cover (end cap) using a small flat screwdriver or fingernail in the slot provided. Gently pry up guard wings being careful not to break.
- Gently grasp the circuit board edges using fingertips ONLY and remove it from the housing. Non-metallic tweezers may be used if the board does not easily slide out.
- Enroll the sensor board into the two of the methods in next section. After successful enrollment slide the circuit board back into the slots provided in the housing. Gently push back the Place the end cap.
- Hold the sensor close to the desired location and verify that it operates properly. Do not drill any holes or mount the sensor until proper operation of the sensor has been confirmed.
- At the mounting location draw a pencil line across the jamb from the door stop to the edge. Draw another line on the door edge opposite the one on the jamb. On both lines measure back a distance of 1/2 the thickness of the door and place vertical marks. These will be the centerline points. Be sure to allow for the thickness of any weatherstripping that may be present.
- Use a sharp brad point or paddle bit to drill a hole 3/4" diameter by 1" deep at centerline mark. Remove any sawdust and press fit the magnet into the hole. A small drop of RTV sealant may also be used to hold it in place.
- Place the end cap to transmit the new changes to the M1 Control.

Figure 1. ELK-6023 Mounting Gap and Alignment

Enrolling via M1 Keypad Installer Programming
1. Enter M1 Keypad Installer Programming and navigate to Menu: 14-Wireless Setup
2. Press right arrow, then scroll up to Sub-Menu: 3 Learn Self Wireless/Transmit
3. Press right arrow, then scroll or select a unused/available WZone (wireless zone).
4. Press right arrow to Lrn (Enroll) a new sensor.
5. Insert the Battery into the sensor as soon as the keypad displays: Push Transmitter Button. The M1G voice will speak, “Press Transmitter button on zone xx”.

NOTE: If battery is already installed; remove it, wait 20 seconds, then re-insert.

6. Upon successful enrollment the keypad will chime and briefly display the 6 digit TXID code of the sensor. If enrollment fails the TXID will not display. Should this happen remove the battery and wait 15 to 20 seconds before re-inserting. In certain instances it may even be necessary to repeat steps 3 - 6.
7. The Rapid-Enroll feature will auto advance to the next wireless zone in sequence and wait for the next sensor enrollment. Simply repeat step 5 for each additional sensor.
8. To end Rapid-Enroll after all wireless zones (sensors) have been enrolled, press the ELK key to locate Sub-Menu: 0 Rapid-Enroll.
9. Set the Loop Number to 2. Loop 2 tells M1 to process this as a single “built-in” reed switch.
10. Click Save. Repeat the entire step 4 for each additional Wireless Zone and Sensor. Remember to click “Send” to transmit the new changes to the M1 Control.

Figure 2. ELK-6023 Circuit Board & Battery

ELK-6023 Wireless Recessed Door Sensor
FCC ID: TMAELK-6023
IC: 4353A-6023

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Battery Installation and Replacement
Low Battery warning will be transmitted when the sensor battery needs to be replaced. Approved 3.6V Lithium batteries are:

- Xeno XL-690F
- Xeno XL-695F

- Carefully remove the sensor cover (end cap) using a small flat screwdriver or fingernail in the slot provided. Gently pry up guard wings being careful not to break.
- Gently grasp the circuit board edges using fingertips ONLY and remove it from the housing. Non-metallic tweezers may be used if the board does not easily slide out.
- Remove old battery and WAIT AT LEAST 20 SECONDS before installing the new battery. Observe correct polarity and be sure to fully seat the new battery holder.
- Slide circuit board back into the slots provided in the housing. Gently push but Do Not Force! Replace the end cap.
- Test sensor operation with panel. Trip sensor several times to send an “all good” and clear the low battery trouble.

BATTERY WARNING: Risk of fire, explosion and burns. Do not attempt to recharge or disassemble. Do not incinerate or expose to heat above 212° F (100°C). Dispose of used batteries properly. Keep away from children.

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