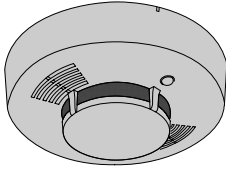


# DXS-72/EC



## WIRELESS PHOTOELECTRIC SMOKE ALARM

### Installation Instructions



(760) 438-7000 • FAX (760) 438-7043  
www.linearcorp.com

### PRODUCT DESCRIPTION

The DXS-72/EC is a photoelectric smoke alarm with a built-in transmitter designed for use with Linear's DXS and DX Format receivers. When smoke is detected, the alarm sounds a loud local alarm. Twenty seconds after the local alarm sounds, the built-in transmitter sends a digitally coded wireless signal to its companion receiver. The wireless signal will be repeated every 20 seconds as long as smoke is still present.

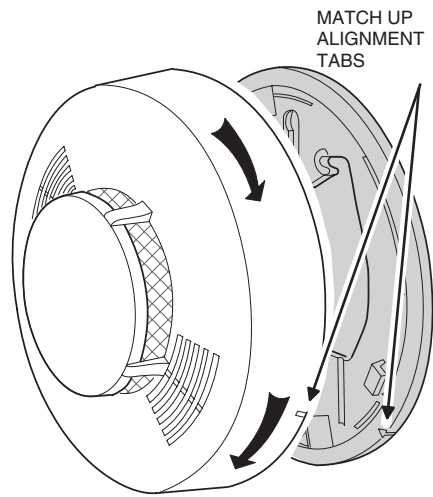
The digital DXS code format features over a million possible codes. The DXS transmitters are pre-coded at the factory to unique codes, so no field coding is required. The DXS-72/EC can send three different codes: alarm, test and low battery status.

For versatility, any transmitter can be programmed into any receiver channel. **Receivers must be programmed to the transmitter's code before system testing and operation.** Refer to the receiver's instructions for details on programming.

The unit is powered by two 9-volt alkaline or lithium batteries. These batteries are supplied with the transmitter and can power the unit for up to two years. Every hour, the DXS-72/EC will send a status transmission to the receiver. The hourly signal updates the receiver to the transmitter's condition. By monitoring status transmissions, the receiver can determine if a transmitter has a low battery or has been removed from the system. If the battery voltage drops below a preset level the alarm will sound low battery beeps and a low battery signal will be sent to the receiver with status reports (some receivers can report low battery status, others cannot).

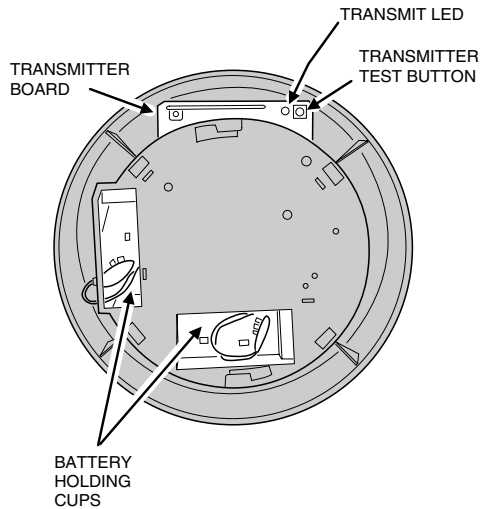
**NOTE:** After replacing batteries, press transmitter test button to reset "low battery circuit".

### REMOVE MOUNTING PLATE

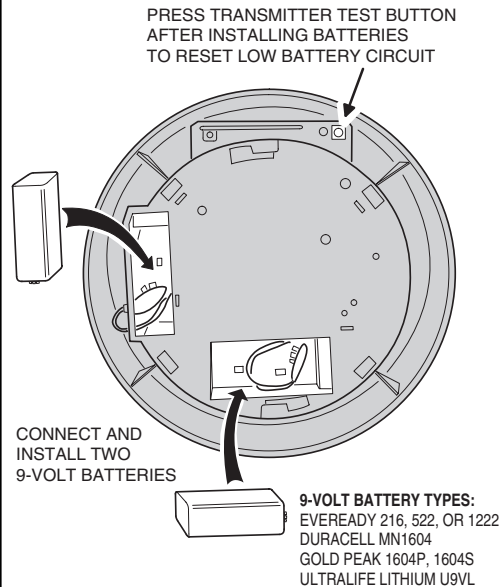


MATCH UP ALIGNMENT TABS  
TWIST SMOKE ALARM CLOCKWISE TO LOCK TO MOUNTING PLATE

### DXS-72/EC FEATURES



### INSTALL BATTERIES



PRESS TRANSMITTER TEST BUTTON AFTER INSTALLING BATTERIES TO RESET LOW BATTERY CIRCUIT

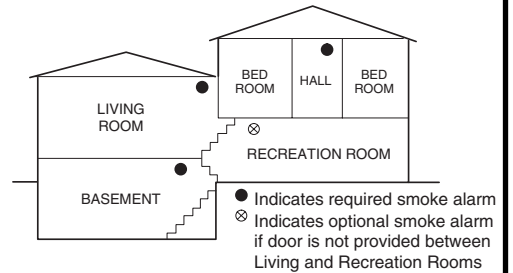
CONNECT AND INSTALL TWO 9-VOLT BATTERIES

9-VOLT BATTERY TYPES:  
EVEREADY 216, 522, OR 1222  
DURACELL MN1604  
GOLD PEAK 1604P, 1604S  
ULTRALIFE LITHIUM U9VL

### CHOOSE ALARM LOCATION

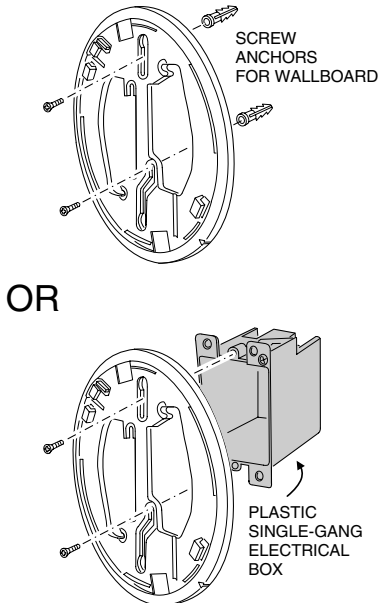
READ THE STANDARD FOR SMOKE ALARM LOCATION ON THE BACK OF THESE INSTRUCTIONS

DETERMINE THE PROPER LOCATION FOR THE ALARM



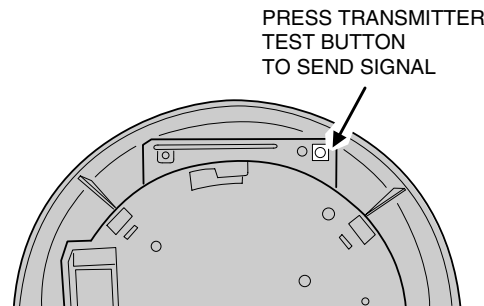
● Indicates required smoke alarm  
⊗ Indicates optional smoke alarm if door is not provided between Living and Recreation Rooms

### INSTALL MOUNTING PLATE



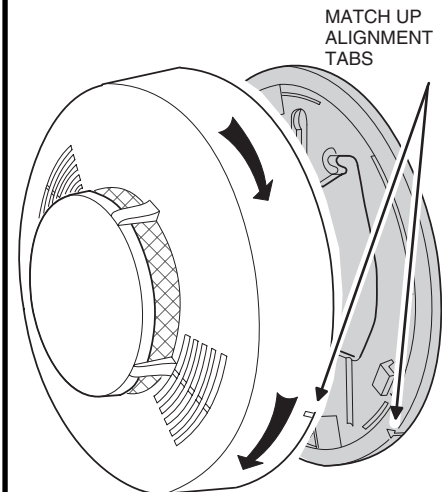
### PROGRAM RECEIVER

REFER TO RECEIVER'S INSTRUCTIONS TO PREPARE RECEIVER TO ACCEPT THE TRANSMITTER'S CODE



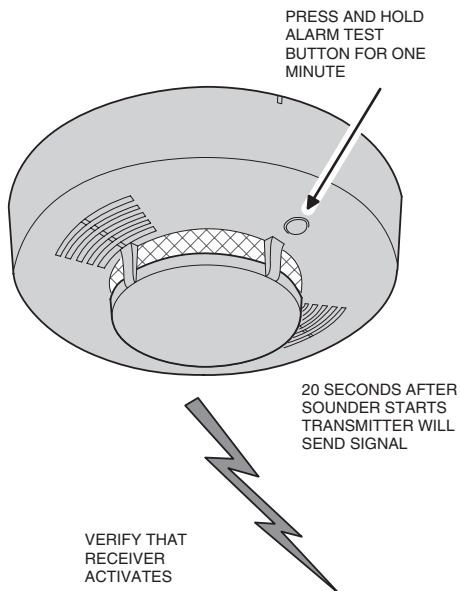
PRESS TRANSMITTER TEST BUTTON TO SEND SIGNAL

### MOUNT ALARM ON PLATE



MATCH UP ALIGNMENT TABS  
TWIST SMOKE ALARM CLOCKWISE TO LOCK TO MOUNTING PLATE

## TEST SYSTEM



## STANDARD FOR ALARM LOCATION

The DXS-72/EC should be installed as follows:

**2-1.1.1** Smoke alarms shall be installed outside of each separate sleeping area in the immediate vicinity of the bedrooms and on each additional story of the family living unit including basements and excluding crawl spaces and unfinished attics. In new construction, a smoke alarm shall be installed in each sleeping room.

**2-1.1.2** For family living units with one or more split levels (i.e., adjacent levels with less than one full story separation between levels), a smoke alarm required by 2-1.1.1 shall suffice for an adjacent lower level, including basements. (Exception: Where there is an intervening door between one level and the adjacent lower level, a smoke alarm shall be installed on the lower level.)

- ✓ Ceiling mounted smoke alarms should be located in the center of the room or hall, or not less than 4 inches from any wall. When the alarm is mounted on a wall, the top of the alarm should be 4 to 12 inches from the ceiling.
- ✓ Do not install smoke alarms where normal ambient temperatures are above 100°F (37.8°C), or below 40°F (4°C). Also, do not locate alarm in front of air conditioners, heating registers, or other locations where normal air circulation will keep smoke from entering the detector.

**A-2.5.2.1** Smoke Detection - Are More Smoke Alarms Desirable? The required number of smoke alarms might not provide reliable early warning protection for those areas separated by a door from the areas protected by the required smoke alarms. For this reason, it is recommended that the householder consider the use of additional smoke alarms for those areas for increased protection. The additional areas include the basement, bedrooms, dining room, furnace room, utility room and hallways not protected by the required smoke alarms. The installation of smoke alarms in kitchens, attics (furnished or unfurnished), or garages is not normally recommended, as these locations occasionally experience conditions that can result in improper operation.

### R&TTE VAAE 28365, EMC, SFT, ETS

Linear Corporation declares that the apparatus DXS-72/EC complies with the essential requirements and other relevant provisions of Directive 1995/5/EC.

## FIRE PREVENTION AND ESCAPE

The purpose of an early warning smoke alarm is to detect the presence of fire in its early stages, and sound an alarm giving the occupants more time to exit the premise before the smoke reaches a dangerous concentration level.

**KNOW FIRE HAZARDS.** No detection device can protect life in all situations. Therefore, safeguards should be taken to avoid such potentially dangerous situations as: smoking in bed, leaving children home alone, cleaning with flammable liquids such as gasoline.

The best fire protection is minimizing fire hazards through proper storage of materials and general good housekeeping techniques. A cluttered basement, attic, or other storage area is an open invitation to fire.

Careless use of combustible materials and electrical appliances, or overloading of electrical outlets are other prime causes in starting fires.

It is most important that explosive and/or fast burning materials be eliminated from the home, if at all possible.

Even after proper precautions have been taken, fires can start. Be prepared.

**IN CASE OF FIRE.** Leave immediately. Don't stop to pack or search for valuables. In heavy smoke, hold your breath and stay low - crawl if necessary. The clearest air is usually at the floor.

If you have to go through a closed door, carefully feel the door and door knob to see if undue heat is present. If they seem relatively cool, brace your foot against the bottom of the door with your hip against the door and one hand against the top edge. Open it slightly. If a rush of hot air is felt, slam the door quickly and latch it. Unvented fire tends to build up considerable pressure. Be sure all the household realizes and understands this danger.

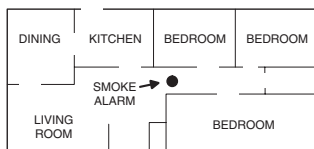
Use your neighbor's phone or a street fire alarm box. The job of extinguishing the fire should be left to the professionals. Too many unforeseen things can occur when inexperienced people try to extinguish a fire.

**BE PREPARED.** Perform fire drills regularly. Use them to assure recognition of an alarm signal. For your protection, simulate different circumstances (smoke in hall, in living room, etc.). Then have everyone react to the situation. Draw a floor plan and show two exits from each room. Frequently a knotted rope or ladder from a window will serve this purpose. It is important that children be instructed carefully, because they tend to hide in times of crisis.

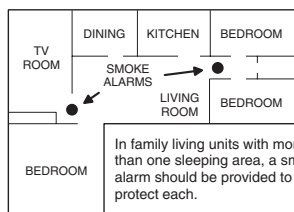
It is imperative that one meeting place outside the home be established. You should insist that everyone meet there during an alarm. This will eliminate the tragedy of someone re-entering the house for a missing member who is actually safe.

If you have children and/or invalids residing in your household, you can help your fire department. Most fire departments have window decals available for use in children's or invalid's bedrooms. Properly used, these decals will quickly identify sleeping quarters of these individuals and show the fire department where to look first for members of your household.

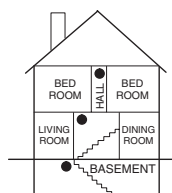
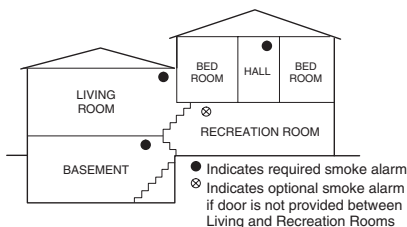
## EXAMPLE ALARM LOCATIONS



A smoke alarm should be located between the sleeping area and the rest of the family living unit.



In family living units with more than one sleeping area, a smoke alarm should be provided to protect each.



A smoke alarm should be located on each story.

## INTERNATIONAL WARRANTY

This Linear product is warranted against defects in material and workmanship for twelve (12) months. The Warranty Expiration Date is labeled on the product. **This warranty extends only to wholesale customers** who buy direct from Linear or through Linear's normal distribution channels. **Linear does not warrant this product to consumers.** Consumers should inquire from their selling dealer as to the nature of the dealer's warranty, if any. **There are no obligations or liabilities on the part of Linear Corporation for consequential damages arising out of or in connection with use or performance of this product or other indirect damages with respect to loss of property, revenue, or profit, or cost of removal, installation, or reinstallation.** All implied warranties, including implied warranties for merchantability and implied warranties for fitness, are valid only until Warranty Expiration Date as labeled on the product. **This Linear Corporation Warranty is lieu of all other warranties express or implied.** For warranty service on Linear equipment return product, at sender's expense to: Linear Hong Kong 19/F Honour Industrial Centre, 6 Sun Yip Street Chai Wan, Hong Kong Attention: Repairs Department

### REPAIRS POLICY

Charges will be made for equipment that is not in warranty, shows customer abuse, or is damaged by the effects of lightning, water, fire, or other abnormal happenings. Customer's equipment sent in for repair may be repaired or replaced with new or remanufactured equipment at Linear's discretion. The customer is always responsible for shipping and handling charges to the repairs facility. Linear will pay return shipping and handling charges on "in warranty" products shipped back to the customer. The customer will be billed for the return shipping and handling charges on "out of warranty" products.

There will be a 50% expedite fee for any express requests.

The International Sales Manager must be notified prior to the return of product to Linear. All international returns must have an International Repair Authorization number (IRAR). The number must be marked on all packages. Failure to do so will cause delays in processing.

### IMPORTANT!!!

Linear radio controls provide a reliable communications link and fill an important need in portable wireless signaling. However, there are some limitations which must be observed. The radios are required to comply with local rules and regulations as radio devices. As such, they have limited transmitter power and therefore limited range.

A receiver cannot respond to more than one transmitted signal at a time and may be blocked by radio signals that occur on or near their operating frequencies, regardless of code settings. Changes or modifications to the device may void regulatory compliance. Infrequently used radio links should be tested regularly to protect against undetected interference or fault. A general knowledge of radio and its vagaries should be gained prior to acting as a wholesale distributor or dealer, and these facts should be communicated to the ultimate users.