



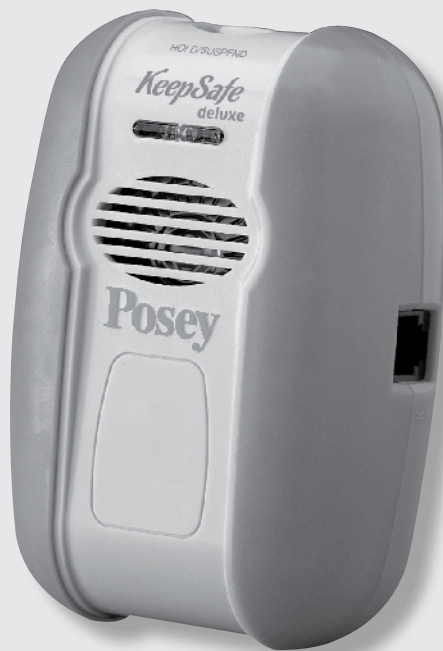
Posey®

8374, 8374NP,
8374NC, 8374NPNC

KeepSafe® Deluxe

The Posey KeepSafe Deluxe is an important part of your fall management protocols.

Ensure all parts of this system are operational before leaving a patient unattended.



Before using the Posey KeepSafe Deluxe, read this entire manual and save for future reference.

Instruction Manual

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Before You Begin

The Posey KeepSafe Deluxe and KeepSafe Deluxe Nurse Call System (KeepSafe Deluxe NC) is an easy to use, restraint free addition to your fall management program. The KeepSafe Deluxe provides an early warning when a patient attempts to rise from a bed, chair or toilet. This system **does not** prevent falls or injury from falls and is not a substitute for patient care, rounding and a comprehensive fall management protocol in your facility.

The KeepSafe Deluxe activates as the patient attempts to rise and removes pressure from the sensor. The KeepSafe Deluxe NC System includes the Nurse Call Cable component to connect to the nurse call system.

Indications for Use:

Persons who may benefit from the use of the Posey KeepSafe Deluxe include:

- Patients with diminished cognitive or mobility skills. For example, the frail, disabled, senile, or those with neurologic deficits.
- Patients receiving medications that may cause disorientation, drowsiness, dizziness, or frequent urination.
- Patients (new or existing) with a history of falls, or who are assessed to be at risk of falling based on your selected fall-risk assessment.
- Patients who are restless or prone to get up in the middle of the night, e.g., due to incontinence, or with nighttime voiding habits.
- Patients who require mandatory bed rest.

Contraindications:

NOTE: The KeepSafe Deluxe may not be suitable for all high fall-risk patients. See Posey catalog for other options for such patients.

The KeepSafe Deluxe should **NEVER** be used as the only means of surveillance for:

- Agitated, combative or suicidal patients.
- Patients at extreme risk of a life-threatening fall (ex. patients with bone injuries or previous hip fractures).

For these patients, Posey recommends use of the KeepSafe Deluxe along with a more intensive fall management measure. See Posey catalog for options such as floor mats, and/or hip protectors among other fall management products.

Response Policy:

Make sure your facility has a clearly defined policy for response to fall management and fall alarms. This may include contacting the patient over the nurse call intercom system and telling them to return to their bed or chair and waiting for assistance, and/or sending staff immediately to the patient's location for assistance. Be sure to place a flag or notification device on the patient's door, in their room, and next to the respective patient's room light at the nurse's station to identify high fall risk patients and alert staff to respond quickly to fall alarm situations.

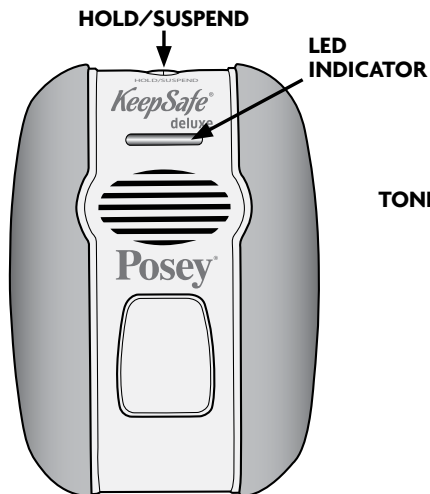
Facility fall management policy should address the frequency of visits by nursing staff to:

- Confirm patient is safe.
- Attend to patient needs for nutrition, toileting, exercise, and therapy.
- Check alarm function **every time** before leaving patient unattended (see pages 19-20).

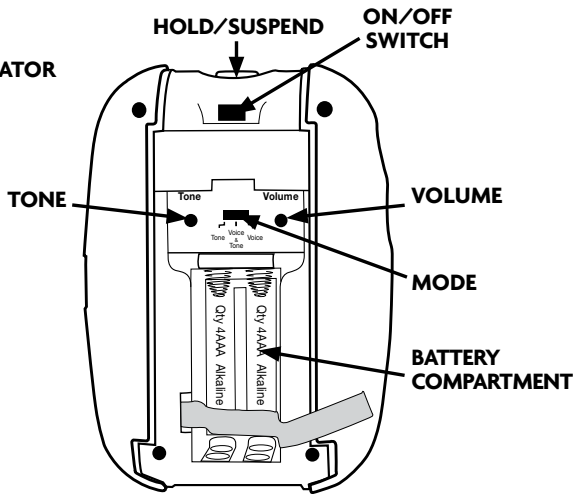
If the alarm and/or sensor do not function properly, remove the alarm and sensor from service and replace them with a properly functioning alarm and/or sensor. DO NOT use the alarm or sensor if it does not activate each time weight is removed from the sensor, the chair belt sensor is unfastened, or the PIR sensor is activated (see pages 19-20).

Features of the KeepSafe Deluxe and KeepSafe Deluxe Nurse Call (KeepSafe Deluxe NC)

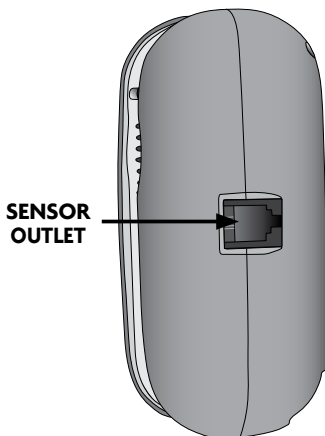
FRONT VIEW



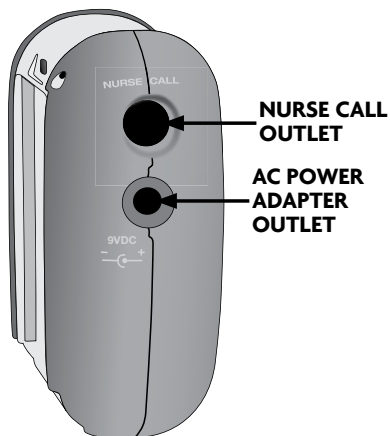
REAR VIEW (Open Battery Door)



RIGHT SIDE VIEW



LEFT SIDE VIEW



Features of the KeepSafe Deluxe and KeepSafe Deluxe Nurse Call (KeepSafe Deluxe NC) *(Continued)*

- **Five alarm tones.** There are five different alarm tone options which can be used in different patient rooms, or to discern between different caregivers or levels of fall risk for easy patient identification.
- **Three alarm modes.** Three alarm modes allow for facility or alarm choices regarding caregiver notification in the event the alarm is triggered. The alarm modes are “Voice and Tone”, “Tone Only” and “Voice Only”
- **High and low volume settings.** Two alarm volume settings allow for facility or alarm choices regarding caregiver notification in the event the alarm is triggered. The volume options are low and high.
- **HOLD/SUSPEND Button.** Allows you to remove a patient from a bed or chair without the need to turn off the alarm (e.g., for therapy, toileting or socializing). Alarm will resume monitoring when patient returns to the bed or chair.
- **Sensor monitoring.** This alarm connects to any Posey sensor pad, including chair, toilet, above and below bed mattress and chair belt sensor and PIR sensors. Bed sensors work with most institutional mattress styles and mattress overlays. Alarm activates when weight is removed from sensor pad, chair belt sensor is unfastened, or PIR sensor detects activity.
- **Nurse Call Interface.** Provides dual alarm notice at patient’s room and nursing station.
Note: Cat. 8374NC and 8374NPNC come with Nurse Call Cable component as part of the alarm system.
- **Failsafe sensor alarm.** The Posey KeepSafe Deluxe activates if the alarm is on and a sensor cord is removed from the alarm.
- **Battery operated.** The alarm uses four (4) “AAA” alkaline batteries. There are no complicated cords or risk of power shortages or shock.
- **Audible low battery warning.** Alarm “chirps” about every 15 seconds when batteries need changing. This sound is different than any of the alarm tones and easily alerts caregivers of the need to change batteries.
- **DC Jack.** For optional AC power connection; adapter sold separately.
- **Impact resistant cover.** Helps minimize damage if dropped.

NOTE: Cat. 8374NP (No Power Model) does NOT have an ON/OFF switch. This is to prevent patients or caregivers from turning off the alarm. The only way to turn off this model is to remove the batteries.

⚠ CAUTION NEVER connect other manufacturers’ sensors to a Posey alarm. Use of another manufacturers’ sensors may damage the Posey alarm, cause the fall monitoring system not to function as intended, and will void the factory warranty.

Each KeepSafe Deluxe is shipped to you with:

- Alarm (1)
- “AAA” Alkaline Batteries (4)
- Standard Bed Bracket (Cat. 8276) (1)
- Wall/Chair Bracket without wire clip (Cat. 8276) (1)
- Saddle Bracket (Cat. 8278N) (1)
- Also available: AC power adapter (Cat. 8383) to power KeepSafe Deluxe without batteries
- Nurse Call Cable component (KeepSafe Deluxe NC or 8374NPNC) with RCA 1/4” jack to connect alarm to the nurse call system



Preparing the KeepSafe Deluxe for Use

Battery Installation:

The battery-operated KeepSafe Deluxe is portable and long lasting. Fresh alkaline batteries have an estimated life of *30 days of daily use*. Actual life depends on alarm mode, tone and volume you select.

Alarm will “chirp” about every 15 seconds when new batteries are needed. Change batteries at once.

1. If your alarm does NOT have an ON/OFF switch (Cat. 8374NP), connect a sensor before inserting the batteries. If your alarm DOES have an ON/OFF switch (Cat. 8374), slide the power switch to the OFF position before inserting/changing batteries.
2. Press down on the arrow and slide the battery compartment door completely off (fig. 1). Set battery door aside.
3. Drape the red ribbon across the battery compartment and insert four (4) new “AAA” batteries as pictured inside the battery compartment (fig. 2). Take care not to damage battery contacts. Batteries should be inserted on top of red ribbon and the loose end of the ribbon should stick out the other end for easy battery removal (fig. 3).
4. Lay the loose end of the red ribbon on top of the batteries and reattach the battery compartment door. Slide it shut, locking it into place.

⚠ WARNING

- **Take care when installing new batteries. The alarm will not work if batteries are installed improperly.**
- **ALWAYS install a completely new set of batteries when the chirping due to low battery power sound begins. DO NOT replace a single cell, but all cells in the alarm. DO NOT mix old and new batteries, or battery brands within a battery pack (4 batteries). Use of mixed batteries or batteries installed incorrectly may cause battery damage, and may damage the alarm. Remove any alarm from use and send to the appropriate facility authority if batteries are damaged or corroded or the battery compartment has signs of previous battery corrosion such as white powder residue.**
- **Batteries can explode or leak and cause damage to alarm if installed incorrectly, fully discharged, or exposed to liquid, fire or high temperatures. If battery damage has occurred, or you see any corrosion, remove the alarm from use IMMEDIATELY. DO NOT use the alarm if battery damage has been detected.**
- **After changing batteries, test the alarm and sensor for proper operation prior to putting in service with a patient, and each time before leaving the patient unattended. If the alarm and/or sensor do not function properly, remove the alarm and sensor from service and replace them with a properly functioning alarm and/or sensor (see pages 19-20).**



Fig. 1



Fig. 2



Fig. 3

Preparing the KeepSafe Deluxe for Use *(Continued)*

Storing Your KeepSafe Deluxe:

If you are storing the KeepSafe Deluxe for an extended period of time, you should turn the alarm off and remove the batteries (see page 7). Batteries start to corrode after an extended period of time (just like a flashlight). Corroded batteries will damage the alarm and may cause it not to function, or to function intermittently (see page 27).

⚠ WARNING **ALWAYS** close the battery door during storage to prevent damage.

NOTE: After four (4) minutes without battery power, settings for tone and volume will revert to factory default.

Store the alarm in a secure place so it will not be dropped or damaged. **DO NOT** use if; battery door is missing; battery door is damaged; alarm case is damaged; or alarm case is cracked.

⚠ WARNING **Battery Leakage.** If there is ANY evidence of battery leakage, remove the alarm from use and notify the appropriate facility authority. The alarm should be disposed of according to your facility disposal requirements. **DO NOT** use the alarm and **DO NOT** attempt to clean it if there are any signs of battery leakage such as corrosion, rust or white powder residue.

⚠ WARNING **DO NOT** allow batteries to deplete while in the alarm. Change batteries immediately when hearing the low battery “chirp.” Depleted batteries may leak and corrode, causing damage to the electronics and reliability. When storing the alarm with power “on”, check the alarm every week to make sure the batteries are still operable and the alarm is still on. If the alarm low battery alert is chirping, or the alarm does not power up, the batteries are depleted and must be removed. **DO NOT** leave depleted (“dead”) batteries in the alarm to avoid corrosion.

Remove batteries when storing the alarm for an extended period to prevent depleting the batteries and potential corrosion.

⚠ WARNING The Posey KeepSafe Deluxe is an electronic device. It may fail to work if subjected to severe shock, such as being dropped, or immersed in liquid. To reduce the risk of serious injury or death, test the alarm and sensor for proper operation prior to putting in service with a patient, and each time before leaving the patient unattended. If the alarm and/or sensor do not function properly, remove the alarm and sensor from service and replace them with a properly functioning alarm and/or sensor. **DO NOT** use the alarm or sensor if it does not activate each time weight is removed from the sensor, the chair belt sensor is unfastened, or the PIR sensor is activated (see pages 19-20).

Setting Alarm Mode

The KeepSafe Deluxe has three (3) alarm modes. These allow you to select an alarm signal best suited to patient and facility needs.

Mode Features:

VOICE & TONE:	Pre-recorded voice message plays once, followed by the selected alarm tone. The tone continues to play until alarm is placed on hold or patient is repositioned with the sensor.
TONE:	Selected alarm tone plays until alarm is placed on hold or patient is repositioned with the sensor.
VOICE ONLY:	Pre-recorded voice message plays until alarm is placed on hold or patient is repositioned with the sensor.

⚠ WARNING When using a nurse call cable, ensure the nurse call cable is plugged in to both the alarm and the wall jack before leaving the patient unattended. Verify that an alert is received at the nursing station if the cable is unplugged from the wall jack.

NOTE: There will be no alert at the nursing station or at the bedside if the nurse call cable is unplugged from the alarm.

To Change/Select Mode:

Follow these steps to change or select alarm mode:

1. Ensure alarm is on and either sensor pad, chair belt sensor or PIR sensor is attached to alarm. Ensure pressure is on sensor pad, chair belt sensor is connected, or PIR sensor is connected.
2. Remove the battery compartment door by sliding down to gain access to the programming buttons.
3. Slide the MODE Select Switch to the desired alarm mode (fig. 4).

The last option selected is the mode utilized when the sensor is activated.

4. Replace the battery door and slide shut, locking into place.

NOTE: Cat. 8374NP does NOT have an ON/OFF switch. To set Alarm Mode for Cat. 8374NP, follow all steps above except step 1.

The Pre-Recorded Voice Message Is:

“Please don’t get up. Sit back down and use the call button to call for help.”

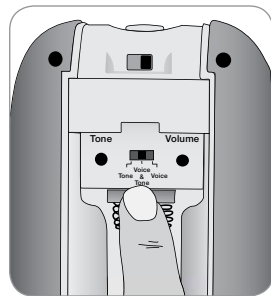


Fig. 4

Setting Alarm Tone

The KeepSafe Deluxe has five (5) available tones. This allows you to differentiate between patients and other equipment alarms.

To Select Tone:

1. Ensure alarm is on and either sensor pad, chair belt sensor or PIR sensor is attached to alarm. Ensure pressure is on sensor pad, chair belt sensor is connected, or PIR sensor is connected.
2. Remove the battery compartment door by sliding down to gain access to the programming buttons.
3. Press TONE button (fig. 5) to scroll through the tone selections.
4. Alarm mode must be set to either “Voice and Tone” or “Tone” (see page 9) in order to hear the selection.
5. Each time you press the button, tone will change and a two (2) second sample plays. The last sample heard is the tone utilized for the alarm when the sensor is activated, depending on which monitoring mode is selected.
6. Replace the battery door and slide shut, locking into place.

NOTE: Cat. 8374NP does not have an ON/OFF switch. To set Alarm Tone for Cat. 8374NP, follow all steps above except step 1.

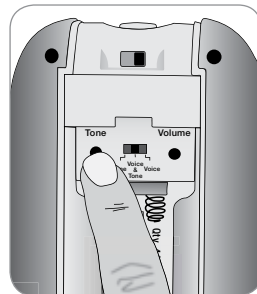


Fig. 5

Adjusting Alarm Volume

There are two (2) alarm volume settings: low and high. These allow you to select the right volume for facility and/or patient needs.

All volume settings are within OSHA standards. For maximum staff alert in noisy areas, use HIGHEST (loudest) volume setting.

⚠️ WARNING ALWAYS check to ensure staff can hear alarm at the furthest possible distance before leaving patient unattended.

⚠️ WARNING NEVER place alarm closer than two feet from patient's ear. Doing so may cause hearing loss or other injury. For more information, see: OSHA OCCUPATIONAL NOISE EXPOSURE STANDARDS 1910.95.

To Change Volume:

1. Ensure alarm is on and either sensor pad, chair belt sensor or PIR sensor is attached to alarm. Ensure pressure is on sensor pad, chair belt sensor is connected, or PIR sensor is connected.
2. Remove the battery compartment door by sliding down to gain access to the programming buttons.
3. Press VOLUME button (fig. 6) to scroll through both the volume selections.
4. Alarm mode must be set to either "Voice and Tone" or "Tone" (see page 9) in order to hear the selection.
5. Each time you press the button, the volume changes and a two (2) second sample plays.
6. Continue to press the VOLUME button until you hear the desired volume. The last sample heard is the volume in use.
7. Replace the battery door and slide shut, locking into place.

NOTE: Cat. 8374NP does not have an ON/OFF switch. To set Alarm Volume for Cat. 8374NP, follow all steps above except step 1.

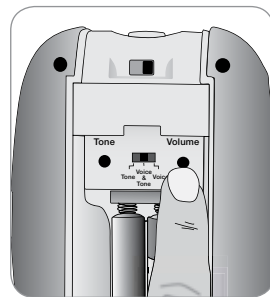


Fig. 6

The HOLD Button

NOTE: HOLD feature will not work unless sensor is plugged into the alarm.

To Place the Alarm on HOLD:

1. Press HOLD/SUSPEND button on the top of alarm (fig. 7) for 1 second.
The monitoring indicator LED will begin flashing RED at 3-second intervals if the alarm is in HOLD mode (fig. 7a).
2. You have 30 seconds to assist patient into or out of bed or chair before alarm returns to monitoring mode. When assisting patient out of bed, move patient towards the edge of the bed with his or her legs over the side of the bed before pressing the HOLD button. This will allow you more time to reposition the patient on the sensor without activating the alarm after the 30 second hold period expires.
3. After 30 seconds:
 - If weight is present on the sensor, chair belt sensor is connected or the PIR sensor is connected, you will hear a single “beep” and monitoring will begin. **ALWAYS** verify the green light is flashing, and the alarm and sensors are monitoring before leaving patient unattended.
 - If there is no weight on sensor, chair belt sensor is not connected, or PIR sensor is not connected, alarm will remain on HOLD.
4. The HOLD feature:
 - Allows patient to be away from bed or chair for extended periods without alarm activating (e.g., for meals, therapy, toileting etc.). When patient returns and weight is applied to sensor, chair belt sensor is connected, or PIR sensor is connected, alarm will “beep” once to indicate monitoring has resumed. The monitoring indicator LED will no longer be flashing red.
 - Helps ensure continuity of care when there are several caregivers.
5. To take alarm out of HOLD:
 - **Apply weight to sensor, connect chair belt sensor or activate PIR Sensor; or**
 - **Press HOLD button once.**

Alarm will “beep” once to indicate monitoring has resumed.

The monitoring indicator LED will no longer be flashing red. The monitoring indicator LED will be flashing green, indicating the alarm is in monitoring mode.

⚠ WARNING Test the alarm and sensor for proper operation prior to putting in service with a patient, and each time before leaving the patient unattended. If the alarm and/or sensor do not function properly, remove the alarm and sensor from service and replace them with a properly functioning alarm and/or sensor (see pages 19-20). Ensure the LED, indicating monitoring, is blinking green.

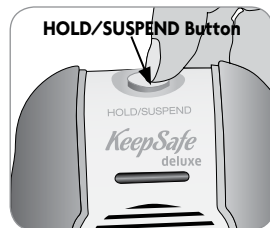


Fig. 7

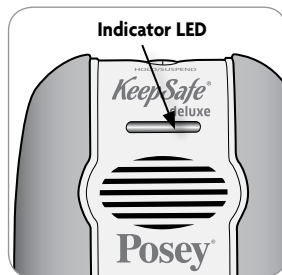


Fig. 7a

The SUSPEND Button

NOTE: SUSPEND feature will not work unless sensor is plugged into the alarm.

The SUSPEND feature is indicated when extended patient care is required. This feature allows you additional time to perform that care without activating the alarm.

To Place the Alarm on SUSPEND:

1. Press HOLD/SUSPEND button on the top of alarm (fig. 8) for 3 seconds.
The monitoring indicator LED will begin flashing RED at ½-second intervals if the alarm is in SUSPEND mode (fig. 8a).
2. You have 5 minutes to assist patient into or out of bed or chair before alarm returns to monitoring mode.
3. After 5 minutes:
 - If weight is present on the sensor, chair belt sensor is connected or the PIR sensor is connected, you will hear a single “beep” and monitoring will begin. **ALWAYS** verify the green light is flashing, and the alarm and sensors are monitoring before leaving patient unattended.
 - If there is no weight on sensor, chair belt sensor is not connected, or PIR sensor is not connected, alarm will remain on SUSPEND.
4. The SUSPEND feature:
 - Allows patient to be away from bed or chair for extended periods without alarm activating (e.g., for meals, therapy, toileting etc.). When patient returns and weight is applied to sensor, chair belt sensor is connected, or PIR sensor is connected, alarm will “beep” once to indicate monitoring has resumed. The monitoring indicator LED will no longer be flashing red.
 - Helps ensure continuity of care when there are several caregivers.
5. To take alarm out of SUSPEND:
 - Apply weight to sensor, connect chair belt sensor, activate PIR sensor; or
 - Press SUSPEND button once.

Alarm will “beep” once to indicate monitoring has resumed.

The monitoring indicator LED will no longer be flashing red. The monitoring indicator LED will be flashing green, indicating the alarm is in monitoring mode.

⚠ WARNING Test the alarm and sensor for proper operation prior to putting in service with a patient, and each time before leaving the patient unattended. If the alarm and/or sensor do not function properly, remove the alarm and sensor from service and replace them with a properly functioning alarm and/or sensor (see pages 19-20). Ensure the LED, indicating monitoring, is blinking green.

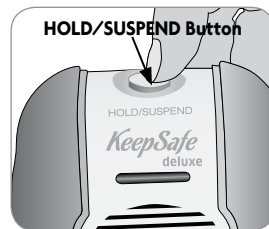


Fig. 8

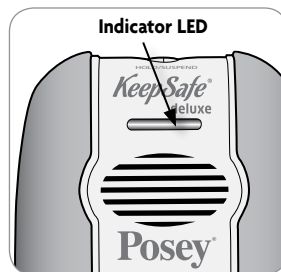


Fig. 8a

Connecting to AC Power (Optional)

The Posey KeepSafe Deluxe is equipped with a DC jack to allow you to use AC power to power the alarm. An optional AC power adapter (Cat. 8383) is required. To ensure proper alarm function and to prevent damage to the alarm, only use the AC power adapter supplied by Posey.

To Connect to AC Power:

1. Connect the AC power adapter to the KeepSafe Deluxe (fig. 9).
2. Plug the other end into the wall.
3. Connect a sensor to the alarm.

NOTE: The Posey KeepSafe Deluxe will accept both alkaline or rechargeable batteries. However, connecting the alarm to AC Power does not charge the rechargeable batteries. This is a safety feature to prevent potential battery damage if the wrong type of batteries are inserted while the alarm is connected to AC Power.

⚠ WARNING Only use the Posey AC power adapter (Cat. 8383) to power your alarm. Using an adapter other than the Posey adapter may damage the alarm and void the warranty.

If power is interrupted, the alarm will not function. There is no alarm at bedside or nurse call station.

If AC power is off for more than four (4) minutes, the alarm settings will revert to factory default.

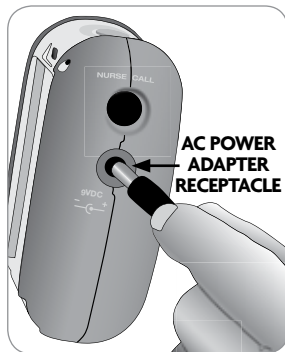


Fig. 9

Nurse Call Interface (with 8374NC or 8374NPNC System)

You can connect the KeepSafe Deluxe Nurse Call System to your facility nurse call system. This allows you to add the options and notification associated with your specific nurse call system such as nursing station notification and patient room lights and sounds.

To Connect the Nurse Call Cable:

1. Insert one end of cable into “Nurse Call” jack on left side of alarm (fig. 10).
2. Insert the other end of cable into wall jack of nurse call panel.
Depending on your system, you may need a “Y” adaptor to use the Posey KeepSafe Deluxe Nurse Call System and the patient nurse call device at the same time.

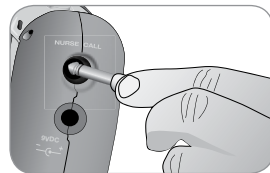


Fig. 10

⚠ WARNING When using a nurse call cable, ensure the nurse call cable is plugged in to both the alarm and the wall jack before leaving the patient unattended. Verify that an alert is received at the nursing station if the cable is unplugged from the wall jack.

NOTE: There will be no alert at the nursing station or at the bedside if the nurse call cable is unplugged from the alarm.

⚠ WARNING FOR SAFE USE WITH NURSE CALL CABLE:

- DO NOT stretch or strain cable to avoid possible damage and possible malfunction.
- DO NOT attach cable to moving parts of the bed or chair that will cause strain or damage if the bed or chair is repositioned.
- ALWAYS position the cable so that moving parts (side rails, wheels, etc.) will not cause strain or damage the cable.
- DO NOT run over the cable with carts or equipment.
- DO NOT wrap the cable tightly during storage.
- ALWAYS remove the cable by pulling on the jack. DO NOT pull on the cable.
- ALWAYS secure the cable out of the way so it will not be a tripping hazard.
- ALWAYS test alarm and nurse call function prior to leaving the patient unattended. Activate the alarm (remove pressure from sensor, unfasten chair belt sensor, or activate PIR sensor) and make sure the nurse call light for the proper bed and room activate in the hall and at the nurse's station.
- DO NOT use the alarm or sensor if it does not activate each time weight is removed from the sensor, the chair belt sensor is unfastened, or the PIR sensor is activated. Replace alarm and sensor with working units and retest before leaving the patient unattended (see pages 19-20).

Mounting the KeepSafe Deluxe

The KeepSafe Deluxe comes with two mounting brackets:

- One (1) for wall or chair mount (Cat. No. 8276 (without wire clip).
- One (1) for bed mount (Cat. No. 8276).

For additional brackets, call Posey Customer Service at 1.800.447.6739 or 1.626.443.3143.

⚠ WARNING Before each use, check that:

- Alarm is securely mounted out of the patient's reach and functions properly by activating alarm (see pages 19-20).
- Indicator lights are in clear view of staff.

Bed Mount

NOTE: The KeepSafe Deluxe comes with a standard bed bracket that fits head and footboards ½" – 2" (1 cm - 5 cm) thick.

1. Use wire bracket (Cat. 8276) for head or footboard mounting (fig. 11).
2. Slide alarm onto bracket from top down until it is firmly in place (fig. 12).
3. Choose location on head or footboard where patient cannot reach or tamper with the alarm or connections.
4. Pull bracket wire away from alarm to create an opening wide enough to fit the head or footboard. Slide bracket onto bed and push down to ensure a snug fit (fig. 13). Make sure indicator lights are in clear view of staff.
5. To remove alarm, gently push release lever IN while sliding alarm up and out (fig. 14).
6. Make sure sensor and/or nurse call cables can be secured out of the way and do not present a tripping hazard.

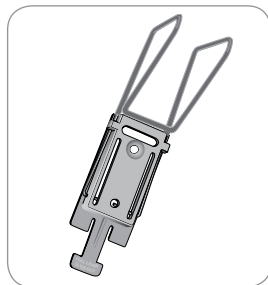


Fig. 11 - Wire Bracket

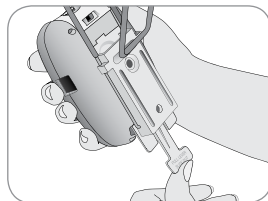


Fig. 12

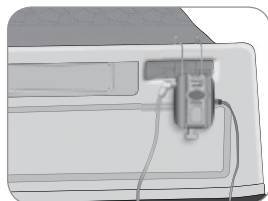


Fig. 13

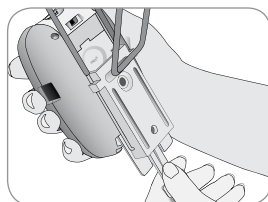


Fig. 14

Wall Mount

1. Choose a location out of the patient's reach, but with indicator lights in clear view of staff.
2. Use wall/chair bracket (Cat. No. 8276 (without wire clip), (fig. 15).

3. **Screw Attachment:**

- Position wall bracket with back (flat side) against wall (fig. 15).
- Using bracket as a guide, mark spots to insert anchors into wall.

⚠ CAUTION Make sure it is safe to drill and there are no pipes or electrical wires that could be damaged.

- Drill holes where marked and insert anchors.
 - Position bracket over holes. Insert and tighten screws.
4. Slide alarm onto bracket from top down until it is firmly in place.
 5. To remove alarm, gently push release lever IN while sliding alarm up and out (fig. 16).
 6. Make sure sensor and/or nurse call cables can be secured out of the way and do not present a tripping hazard.

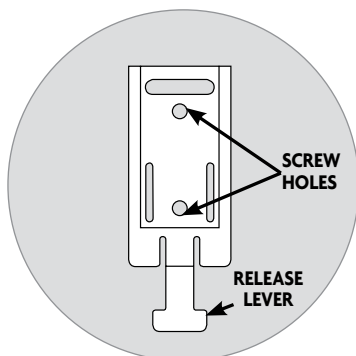


Fig. 15 - Chair/Wall Bracket (Front View)

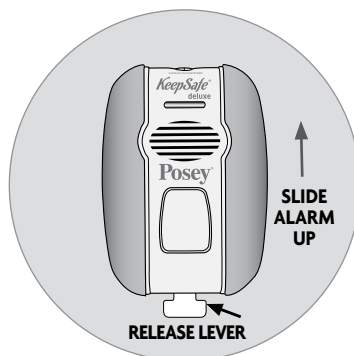


Fig. 16 - Alarm/Bracket (Front View)

Chair Mount

Use Saddle Bracket (Cat. 8278N) to attach alarm to a wheelchair (figs. 17 and 18). Use Wire Bracket to attach alarm to a Geri-chair frame (fig. 19).

Follow these steps to attach alarm to a Wheelchair:

1. Choose a location on rear of chair, out of the patient's reach to attach the saddle bracket (Cat. 8278N) included in this package, such as the bottom of the wheelchair frame at a juncture not likely to interfere with the wheel of the chair.
2. Wrap the saddle strap firmly around the wheelchair frame (fig. 17).
3. Slide the alarm onto the bracket from the top down. The alarm should rest on the bottom of the "L" (fig. 18).
4. **ALWAYS** confirm proper attachment before each use. Ensure that the alarm and sensor cables are clear of all moving parts of the chair and cannot fall off.
5. Make sure sensor cables can be secured away from moving parts of the chair.

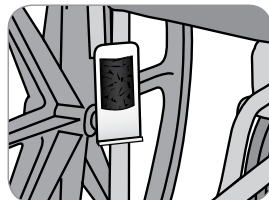


Fig. 17

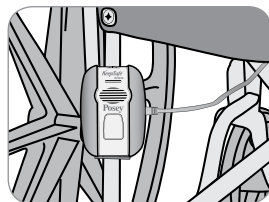


Fig. 18

Follow these steps to attach alarm to a Geri-chair:

1. Choose a location on rear of chair, out of the patient's reach.
2. Slide the alarm onto the wire bracket (Cat. 8276) from the top down.
3. Attach the bracket to the back of the geri-chair by pulling the wire away from the alarm to create an opening wide enough to fit over the geri-chair (fig. 19). Slide the bracket onto the geri-chair and push down to ensure a snug fit.
4. **ALWAYS** confirm proper attachment before each use. Ensure that the alarm and sensor cables are clear of all moving parts of the geri-chair and cannot fall off.
5. Make sure sensor cables can be secured away from moving parts of the chair.

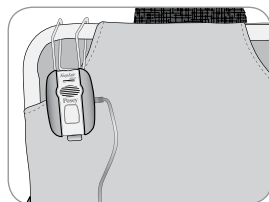


Fig. 19

Monitoring with a Sensor

The following instructions will help you set up and safely use the KeepSafe Deluxe with a sensor.

TIPS TO PROTECT SENSORS FROM DAMAGE

To avoid inconvenience to staff and patients, and to protect sensors from damage, you should follow these steps:

- Only use Posey sensors with the Posey alarm.
- When routing sensor cord to alarm, check that there is no stress on cord. Cord must be clear of all moving parts of bed or chair to prevent sensor failure.
- **NEVER** jerk or pull on the cord to remove RJ11 plug. Doing so will damage cord wires or plug.
- **ALWAYS** use the plastic tab to release plug (fig. 20).



Fig. 20

FAILSAFE FEATURE

The Posey KeepSafe Deluxe contains a “failsafe” feature that activates the Posey alarm if the sensor is removed from the alarm when the power is on.

⚠ WARNING FOR SAFE USE IN ALL SENSOR MODES:

To reduce the risk of serious injury or death, **ALWAYS** follow these steps after putting the sensor in place and before leaving patient unattended (see instructions below). **DO NOT** use any alarm or sensor that does not alarm each time it is tested.

1. Make sure alarm is **ON** and in monitoring mode (monitoring indicator LED is flashing green).
2. Check that the RJ11 plug on the sensor cable is not damaged (plug broken, or wires disconnected) and is securely connected to the alarm.
3. Disconnecting the sensor from the alarm will cause the alarm to activate. This is called a “failsafe” mode. Disconnect the sensor to make sure the failsafe mode works. **DO NOT** use the alarm if the alarm does not sound when the sensor is disconnected.
4. When connecting the alarm to the nurse call system, check that the nurse call cable is securely connected to the alarm and the nurse call panel. **ALWAYS** test alarm and nurse call function if nurse call cable is plugged into the alarm and wall jack. Activate the alarm (remove pressure from sensor, unfasten chair belt sensor, or activate PIR sensor) and make sure the nurse call light for the proper bed and room activate in the appropriate nurse’s station location. Remove the cable from the wall jack and make sure the visual or audible alert at the nurse’s station immediately activates.
5. Inspect sensor cord and nurse call cable (if in use) to ensure they are out of the footpath and **DO NOT** pose a tripping hazard.

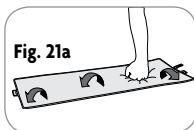
Monitoring with a Sensor *(Continued)*

Over Mattress, Under Mattress, Chair Pad, Chair Belt and PIR Sensors

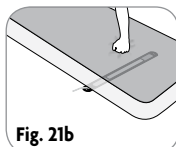
OVER MATTRESS, UNDER MATTRESS AND CHAIR PAD SENSORS

In addition to steps 1-5 steps on the previous page:

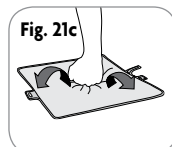
1. Test several places along the entire surface of the sensor by applying and removing pressure to make sure the alarm activates when pressure is removed from the sensor/mattress (figs. 21a, b, c), when you unfasten the chair belt sensor (fig. 23) or activate the PIR sensor (fig. 24). If the alarm and/or sensor do not function properly, remove the alarm and sensor from service and replace them with a properly functioning alarm and/or sensor. **DO NOT** use the alarm or sensor if it does not activate each time weight is removed from the sensor, the chair belt sensor is unfastened, or the PIR sensor is activated.
2. Make sure sensor pad air intake ("neck" of over mattress or chair sensor pad) is clear and not blocked (fig. 22). Air must flow freely in and out of sensor for alarm to function. Make sure liquid does not enter at "neck" of sensor pad, as this will damage sensor. If needed, use an incontinence pad to protect sensor from urine or other liquids.
3. Make sure sensor lays **FLAT** on chair or bed surface, directly under patient's weight, and that sensor cord is not folded back under the pad.
4. Check that there is no risk that chair sensor pad will be trapped in a "hammocking" chair seat. To reduce this risk, place a foundation cushion on seat under sensor (see Posey catalog no. 7110C Semi-Rigid Wheelchair Foundation).
5. Make sure mattress continues to make contact with the sensor and will activate the alarm when pressure is removed, even if the head or foot of the bed is articulated.



**TESTING OVER
MATTRESS
SENSOR PAD**



**TESTING UNDER
MATTRESS SENSOR**



**TESTING CHAIR
SENSOR PAD**

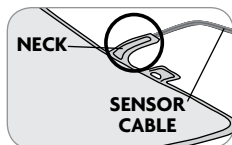
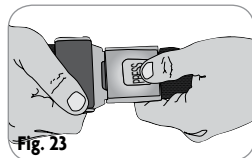


Fig. 22 - Neck of Sensor Pad

CHAIR BELT SENSORS

In addition to steps 1-5 on the previous page (**FOR SAFE USE IN ALL SENSOR MODES**), press self-release button to unfasten buckle, or separate hook and loop straps (fig. 23). Alarm should activate each time you do this.



CHAIR BELT SENSOR

PIR SENSORS

In addition to steps 1-5 on the previous page (**FOR SAFE USE IN ALL SENSOR MODES**), move your hand or arm into range of PIR beam (fig. 24). Alarm should sound and/or the Nurse Call Interface (if in use) should activate each time you do this.



PIR SENSOR

Steps to Apply Under Mattress Sensor

⚠ WARNING See pages 19-20 for list of warnings.

1. Select the correct sensor for your mattress.
 - Lightweight sensors. For mattresses that weigh 38 – 42 lbs. (17-19 kgs.). (Cat. No. 8285L)
 - Heavyweight sensors. For mattresses that weigh > 42 lbs. (>19 kgs.). (Cat. No. 8285H)
2. Check that sensor, cord and plug are clean and undamaged.
3. Place sensor under mattress and directly on top of bed frame. Choose one of two positions (depending on protocol and facility policy) (fig. 25):
 - (A) Centered at patient's shoulder blades; or
 - (B) Centered under patient's buttocks.
4. Secure sensor to bed frame using hook and loop straps or cable ties, depending on style of bed. Make sure sensor is flat and resting on a solid part of the mattress.
5. Route the sensor cord to the alarm. Check that the sensor cord is not stressed, is clear of moving parts of bed, and does not pose a tripping hazard.
6. Insert RJ11 plug into jack labeled "sensor" on right side of alarm (fig. 26). Alarm will activate. Press the HOLD button. You have 30 seconds to transfer the patient to the bed before monitoring begins (see instructions on page 12 for use of the HOLD button).
7. Test sensor and alarm (see below).
8. Position patient in bed, with weight directly over sensor.

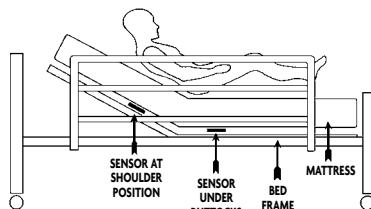


Fig. 25

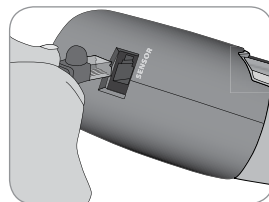


Fig. 26

Testing Alarm and Sensors

ALWAYS check sensor when connecting it to a Posey alarm. You can check a sensor by attaching it to the sensor cable outlet in the alarm, activating the alarm and placing pressure on the mattress near the sensor area and then releasing (fig. 27). When the pressure is released, the alarm should sound. Repeat this pressure/release test along the entire length of the sensor to ensure entire sensor functions properly both with the bed in the flat position and the head and/or foot articulated. If the alarm and/or sensor do not function properly, remove the alarm and sensor from service and replace them with a properly functioning alarm and/or sensor. **DO NOT** use the alarm or sensor if it does not activate each time weight is removed from the sensor.

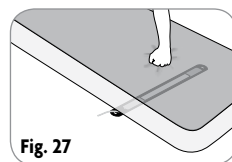


Fig. 27

**TESTING UNDER
MATTRESS SENSOR**

Steps to Apply Over Mattress Sensor

⚠ WARNING See pages 19-20 for list of warnings.

1. Select the correct sensor for your patient:
 - Disposable 30-Day Sensors. For short-term use.
 - 6-Month Sensors. For long-term use.
2. Check that sensor pad, cord and plug are clean and undamaged.
3. Choose a position for sensor pad (fig. 28):
 - (A) Centered at patient's shoulder blades; or
 - (B) Centered under patient's buttocks.
4. Place non-slip Posey Grip on mattress at area chosen for sensor. Place sensor pad over Posey Grip, across width of bed.
5. Use metal clips to secure sensor to mattress.
6. Place bottom sheet over sensor.
7. If needed, use an incontinence pad to protect sensor from urine or other liquids. Sensor may fail if liquid enters at "neck" of sensor pad.
8. Route the sensor cord to the alarm. Check that the sensor cord is not stressed, is clear of moving parts of bed, and does not pose a tripping hazard.
9. Insert RJ11 plug into jack labeled "sensor" on right side of alarm (fig. 29). Alarm will activate. Press the HOLD button. You have 30 seconds to transfer the patient to the bed before monitoring begins (see instructions on page 12 for use of the HOLD button).
10. Test sensor and alarm (see below).
11. Position patient in bed, with weight centered on sensor pad.

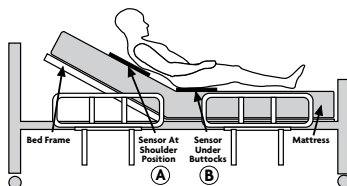


Fig. 28

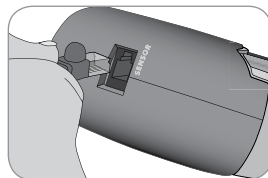
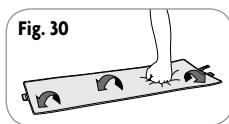


Fig. 29

Testing Alarm and Sensors

ALWAYS check sensor pads when connecting them to a Posey alarm. You can check a pad by attaching it to the sensor cable outlet in the alarm, activating the alarm and placing pressure on the pad (fig. 30). When the pressure is released, the alarm should sound. Repeat this pressure/release test in several different areas along the entire length of the sensor to ensure entire pad functions properly both with the bed in the flat position and the head and/or foot articulated. If the alarm and/or sensor do not function properly, remove the alarm and sensor from service and replace them with a properly functioning alarm and/or sensor. **DO NOT** use the alarm or sensor if it does not activate each time weight is removed from the sensor.



**TESTING OVER
MATTRESS SENSOR PAD**

Storing Pad Sensors when not in use

ALWAYS store pad sensors flat in a dry secure environment. **DO NOT** roll, bend or fold over mattress pad sensors. This may cause them to malfunction. You can also store the sensors by hanging from the hole on the side of the sensor pad. Ensure sensor cords remain bundled together in the sensor packaging. **DO NOT** stretch or place pressure on the cords, as this could cause a malfunction in the sensor pad.

Steps to Apply Chair Sensor Pad

⚠ WARNING See pages 19-20 for list of warnings.

1. Select the correct sensor for your patient:
 - Disposable 30-Day Sensors. For short-term use.
 - 6-Month Sensors. For long-term use.
 2. Check that sensor pad, cord and plug are clean and undamaged.
 3. Place sensor pad FLAT across width of seat (fig. 31). Make sure sensor cord is either to the back or side of seat.
- NOTE: If a seat cushion is used, place sensor ON TOP of cushion.**
4. Adjust so sensor is directly under patient's buttocks when seated.
 - Sensor should be towards FRONT of chair seat if patient normally sits toward front.
 - Sensor should be towards BACK of chair seat if using a posture support or if patient is at risk of forward sliding.
 5. If needed, use an incontinence pad to protect sensor from urine or other liquids. Sensor may fail if liquid enters at "neck" of sensor pad.
 6. Route the sensor cord to the alarm. Check that the sensor cord is not stressed, is clear of moving parts of chair, and does not pose a tripping hazard.
 7. Insert RJ11 plug into jack labeled "sensor" on right side of alarm (fig. 32). Alarm will activate. Press the HOLD button. You have 30 seconds to transfer the patient to the chair before monitoring begins (see instructions on page 12 for use of the HOLD button).
 8. Test sensor and alarm (see below).
 9. Position patient in chair, with weight centered on sensor pad.

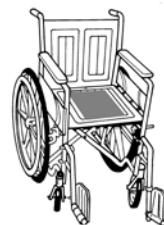


Fig. 31

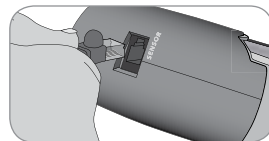


Fig. 32

Steps to Apply a Chair Belt and PIR Sensor

NOTE: Refer to the warning label and product insert for these sensors. Follow all Warnings, use instructions, and steps for proper attachment.

Testing Alarm and Sensors

ALWAYS check sensor pads when connecting them to a Posey alarm. You can check a pad by attaching it to the sensor cable outlet in the alarm, activating the alarm and placing pressure on the pad (fig. 33). When the pressure is released, the alarm should sound. Repeat this pressure/release test in several different areas along the entire length of the sensor to ensure entire pad functions properly. If the alarm and/or sensor do not function properly, remove the alarm and sensor from service and replace them with a properly functioning alarm and/or sensor. **DO NOT** use the alarm or sensor if it does not activate each time weight is removed from the sensor.

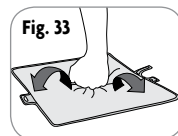


Fig. 33

**TESTING CHAIR
SENSOR PAD**

Testing Alarm and Chair Belt and PIR Sensors

See page 20 for instructions on testing a Chair Belt and PIR Sensor.

Storing Chair Pad, Chair and PIR Sensors when not in use

ALWAYS store pad sensors flat in a dry secure environment. **DO NOT** roll, bend or fold chair pad sensors. This may cause them to malfunction. Store chair belt sensors and PIR sensors in a dry, secure environment. Ensure sensor cords remain bundled together in the sensor packaging. **DO NOT** stretch or place pressure on the cords, as this could cause a malfunction in the sensor pad.

The KeepSafe Deluxe and Use of Physical Restraints

The use of physical restraints should be a last resort, and only after a full physical and mental assessment by the facility healthcare team. If the patient's Care Plan calls for the use of a restraint, staff should read and follow all instructions and warnings for the device you choose.

The position of the sensor pad is vital when using a restraint. Make sure the restraint is applied correctly per instructions for that device. Straps must NOT cross over sensor pad.

For bed use, sensor pad should be placed at shoulder blade level so alarm will activate if patient sits up, tries to climb over side rails, or scoots to bottom of bed (see fig. 28, page 22).

⚠ WARNING

If straps cross over sensor pad and patient moves, pressure from straps may prevent alarm from activating. If patient falls out of bed or chair and is suspended in the restraint, serious injury or death may occur from chest compression or suffocation (fig. 34).



Fig. 34

- **ALWAYS** use Hospital Bed Safety Workgroup (HBSW*) compliant bed side rails. Use gap fillers to reduce the risk that patient's body or limbs may fit over, under, around, through or between rails.
- Full compliant bed side rails must be UP when restraints are used on a patient.

To reduce the risk of entrapment, use side rail covers, especially with split side rails. A failure to do so may result in serious injury or death if patient's body goes under, around, through or between the bed side rails.

Use extreme caution with chair cushions. If a cushion dislodges, straps may loosen and allow patient to slide off seat and become suspended.

*<http://www.fda.gov> search keyword "HBSW"

Warnings and Cautions

- **NEVER** connect a Posey alarm to other manufacturers' sensors (see page 5).
- **NEVER** connect a Posey sensor to other manufacturers' alarms (see page 5).
- Make sure it is safe to drill and there are no pipes or electrical wires that could be damaged when using screws to attach the wall mount bracket (see page 17).
- **NEVER** place alarm closer than two feet from patient's ear. Doing so may cause hearing loss or other injury. For more information, see: OSHA OCCUPATIONAL NOISE EXPOSURE STANDARDS 1910.95 (see page 11).
- **ALWAYS** check to ensure staff can hear alarm at the furthest possible distance before leaving patient unattended (see page 11).
- Check that there is no stress on the nurse call cable. Make sure cable is clear of all moving parts of bed or chair, and does not pose a tripping hazard.
 - Check that both ends of cable are securely plugged in and the nurse call system has an alert warning if the cable is disconnected from the wall jack (see page 15).
 - Test alarm and nurse call functions by activating alarm and removing pressure from the sensor pad, unfastening chair belt sensor, or activating PIR sensor EACH TIME before leaving patient unattended (see pages 19-20).
- Before each use, check that:
 - Alarm is securely mounted out of the patient's reach (see page 16) and functions properly by activating alarm (see pages 19-20).
 - Indicator lights are in clear view of staff (see page 16).
- DO NOT mix old and new batteries or battery brands. This may cause rupture or leakage and damage alarm (see page 7).
- DO NOT allow batteries to deplete while in the alarm. Change batteries immediately when hearing the low battery "chirp." Depleted batteries may leak and corrode, causing damage to the electronics and reliability. When storing the alarm with power "on," check the alarm every week to make sure the batteries are still operable and the alarm is still on. If the alarm low battery alert is chirping, or the alarm does not power up, the batteries are depleted and must be removed. DO NOT leave depleted ("dead") batteries in the alarm to avoid corrosion (see page 8).
- Remove batteries when storing the alarm for an extended period to prevent depleting the batteries and potential corrosion (see page 8).
- The Posey KeepSafe Deluxe is an electronic device. It may fail to work if subjected to severe shock, such as being dropped, or immersed in liquid. To reduce the risk of serious injury or death, test the alarm and sensor for proper operation prior to putting in service with a patient, and each time before leaving the patient unattended. If the alarm and/or sensor do not function properly, remove the alarm and sensor from service and replace them with a properly functioning alarm and/or sensor. DO NOT use the alarm or sensor if it does not activate each time weight is removed from the sensor, the chair belt sensor is unfastened, or the PIR sensor is activated (see pages 19-20).

⚠ WARNING FOR SAFE USE IN ALL SENSOR MODES (see page 19):

*To reduce the risk of serious injury or death, **ALWAYS** follow these steps after putting the sensor in place and before leaving patient unattended (see instructions below). DO NOT use any alarm or sensor that does not alarm each time it is tested.*

1. Make sure alarm is ON and in monitoring mode (monitoring indicator LED is flashing green).
2. Check that the RJ11 plug on the sensor cable is not damaged (plug broken, or wires disconnected) and is securely connected to the alarm.
3. Disconnecting the sensor from the alarm will cause the alarm to activate. This is called a "failsafe" mode. Disconnect the sensor to make sure the failsafe mode works. DO NOT use the alarm if the alarm does not sound when the sensor is disconnected.

Warnings and Cautions *(Continued)*

4. When connecting the alarm to the nurse call system, check that the nurse call cable is securely connected to the alarm and the nurse call panel. **ALWAYS** test alarm and nurse call function if nurse call cable is plugged into the alarm and wall jack. Activate the alarm (remove pressure from sensor, unfasten chair belt sensor, or activate PIR sensor) and make sure the nurse call light for the proper bed and room activate in the appropriate nurse's station location. Remove the cable from the wall jack and make sure the visual or audible alert at the nurse's station immediately activates.
5. Inspect sensor cord and nurse call cable (if in use) to ensure they are out of the footpath and DO NOT pose a tripping hazard.

OVER MATTRESS, UNDER MATTRESS AND CHAIR PAD SENSORS (see page 20)

In addition to steps 1-5 beginning on the previous page (FOR SAFE USE IN ALL SENSOR MODES):

1. Test several places along the entire surface of the sensor by applying and removing pressure to make sure the alarm activates when pressure is removed from the sensor/mattress, when you unfasten the chair belt sensor or activate the PIR sensor. If the alarm and/or sensor do not function properly, remove the alarm and sensor from service and replace them with a properly functioning alarm and/or sensor. DO NOT use the alarm or sensor if it does not activate each time weight is removed from the sensor, the chair belt sensor is unfastened, or the PIR sensor is activated (see page 20).
2. Make sure sensor pad air intake ("neck" of over mattress or chair sensor pad) is clear and not blocked. Air must flow freely in and out of sensor for alarm to function. Make sure liquid does not enter at "neck" of sensor pad, as this will damage sensor. If needed, use an incontinence pad to protect sensor from urine or other liquids.
3. Make sure sensor lays FLAT on chair or bed surface, directly under patient's weight, and that sensor cord is not folded back under the pad.
4. Check that there is no risk that chair sensor pad will be trapped in a "hammocking" chair seat. To reduce this risk, place a foundation cushion on seat under sensor (see Posey catalog no. 7110C Semi-Rigid Wheelchair Foundation).
5. Make sure mattress continues to make contact with the sensor and will activate the alarm when pressure is removed, even if the head or foot of the bed is articulated.

CHAIR BELT AND PIR SENSORS

In addition to steps 1-5 beginning on the previous page (FOR SAFE USE IN ALL SENSOR MODES), see page 20 for instructions on how to properly test a Chair Belt and PIR Sensor.

Sensor Not Functioning

If the alarm and/or sensor do not function properly, remove the alarm and sensor from service and replace them with a properly functioning alarm and/or sensor. DO NOT use the alarm or sensor if it does not activate each time weight is removed from the sensor, the chair belt sensor is unfastened, or the PIR sensor is activated (see pages 19-20 for testing alarm and sensor information).

Adaptor Cable Replacement

Contact Posey Customer Service for nurse call cable adaptors available for various nurse call systems.

Alarm Cleaning, Storage and Battery Maintenance

Cleaning

Sensor, Cables and Alarm Housing (exterior ONLY)

Dampen (but DO NOT soak) a clean cloth with disinfectant. Use extra care to clean sensor cord plugs. To reduce the risk of damage,

NEVER:

- Use any cleaning substance that contains Phenol or Benzyl;
- Immerse in liquid; or
- Sterilize with heat.

Use a clean, DRY cloth to dry all parts.

Storage

- This device is designed for use in normal indoor environments.
- This device may be stored in ambient warehouse temperatures at normal humidity levels (10 to 50%). Avoid excess moisture or high humidity that may damage product materials (greater than 90%).
- Store pad sensors flat or hang in a dry secure environment. DO NOT fold or roll sensors, as it may damage internal electronic parts and cause a malfunction.

Disposal

⚠ WARNING Dispose of per facility policy. Be sure to follow all laws that apply.

General Cleaning

1. For general cleaning, a soft cloth or cotton swabs are best.
2. DO NOT use sprays or liquids that may damage battery contacts.
3. Tilt case DOWN and use liquid cleaners sparingly. Make sure liquid does not get into main section of alarm case.
4. Make sure compartment is completely dry before inserting fresh batteries.

Battery Compartment

⚠ WARNING Battery Leakage. If there is ANY evidence of battery leakage, remove the alarm from use and notify the appropriate facility authority. The alarm should be disposed of according to your facility disposal requirements. DO NOT use the alarm and DO NOT attempt to clean it if there are any signs of battery leakage such as corrosion, rust or white powder residue.

⚠ WARNING DO NOT allow batteries to deplete while in the alarm. Change batteries immediately when hearing the low battery “chirp.” Depleted batteries may leak and corrode, causing damage to the electronics and reliability. When storing the alarm with power “on”, check the alarm every week to make sure the batteries are still operable and the alarm is still on. If the alarm low battery alert is chirping, or the alarm does not power up, the batteries are depleted and must be removed. DO NOT leave depleted (“dead”) batteries in the alarm to avoid corrosion.

Remove batteries when storing the alarm for an extended period to prevent depleting the batteries and potential corrosion.

Troubleshooting Guide

Problem:	Continuous alarm with patient in bed or chair (see pages 19-23).
Solution:	<i>Chair Pad Sensor</i> • Check that sensor cord and RJ11 plug are clean and undamaged. Check plug connection to alarm. • Check sensor pad for creases or damage to vinyl cover. • Check “neck” of chair sensor pad for signs that urine or other liquids have leaked into pad. • Check that sensor pad is directly under patient’s weight. – Pad should be towards front of chair seat if patient normally sits toward front. – Pad should be towards back of chair seat if posture support is in use or if patient is at risk of forward sliding. • Check seating/positioning aids such as wheelchair cushions or wedge cushions. Weight from these may activate alarm, or prevent sensor from activating. • Check sensor expiration date. A continuous alarm may indicate sensor is “worn-out” and should be replaced. <i>Over or Under Mattress Sensor</i> • Check that sensor cord and RJ11 plug are clean and undamaged. Check plug connection to alarm. • Check sensor pad for creases or damage to vinyl cover. • Check “neck” of over mattress sensor pad for signs that urine or other liquids have leaked into pad. • Patient may not be heavy enough to activate sensor. – Shoulder Placement – Adjust sensor so it is centered at shoulder blade area and patient makes contact with pad. – Try a different sensor location. Most patient weight is normally under buttocks. • Buttocks Placement - Check that sensor pad is directly under patient’s weight. Shoulder placement may be needed for a very small individual or restless sleeper. • A foam pad on top of mattress may diffuse patient’s weight so sensor does not activate. – Reposition under mattress sensor above mattress, under foam pad. – Reposition over mattress sensors above foam pad. • Mattress may not bend easily when head or knee sections are raised or lowered. Some mattresses are very stiff and may form an air pocket between mattress and frame when bed is adjusted. This may prevent weight from touching sensor. Try a different sensor location. • Check sensor expiration date. A continuous alarm may indicate sensor is “worn-out” and should be replaced. <i>Chair Belt Sensor</i> • Check that sensor cord and RJ11 plug are clean and undamaged. Check plug connection to alarm. • Check that buckle is securely fastened and there are no loose wires. <i>Exit Alarm Mat</i> • Check that there is no weight on sensor. • Check that sensor cord and RJ11 plug are clean and undamaged. Check plug connection to alarm.

Troubleshooting Guide *(Continued)*

Problem:	Intermittent Alarm while the patient is in a bed or chair (see pages 19-23).
Solution:	• Check that sensor cord and RJ11 plug are clean and undamaged. Check plug connection to alarm. • Check sensor pad for creases or damage to vinyl cover. • Check that sensor pad is directly under patient's weight. • Is the sensor getting caught in "hammocking" wheelchair seat? If so, place a foundation cushion on seat, under sensor (see Posey catalog no. 7110C Semi-Rigid Wheelchair Foundation). • Make sure sensor cord is not folded back under pad. • Make sure sensor pad air intake ("neck" of over mattress or chair sensor pad) is clear and not blocked. Air must flow freely in and out of sensor. • Try a new sensor if intermittent alarm can not be fixed. • Make sure mattress continues to make contact with the sensor and will activate the alarm when pressure is removed, even if the head or foot of the bed is articulated. • Apply pressure to sensor in several areas to check that alarm activates (see page 20). • Ensure batteries are not corroded (see page 8).
Problem:	No Alarm when patient exits bed or chair (see pages 19-23).
Solution:	• Make sure alarm is ON (monitoring indicator LED is flashing green). • Check batteries. If needed, insert four (4) new "AAA" alkaline batteries. DO NOT mix old and new batteries, or different brands of batteries. Chair Pad Sensor • Make sure sensor cord is not folded back under pad. • Make sure sensor pad air intake ("neck" of chair sensor pad) is clear and not blocked. Air must flow freely in and out of the sensor. • Check that there is no weight in the chair such as a box, bag or book. • Check seating/positioning aides. A heavy wheelchair cushion may prevent alarm from alarming. Try a different position for the sensor pad, such as on top of the cushion. • Is the sensor getting caught in "hammocking" wheelchair seat? If so, place a foundation cushion on seat, under sensor (see Posey catalog no. 7110C Semi-Rigid Wheelchair Foundation). • Try a new sensor if alarm does not sound. Over/Under Mattress Sensors • Check that all connections are tight and properly plugged into the alarm. • Check that there is no weight on the mattress such as a box, bag or book. • Check that the correct side of the bed sensor pad is "UP" under the mattress. • Mattress may be too heavy for an under mattress sensor. Many older mattresses are very heavy and will not allow the sensor pad to activate the alarm. You may need an over mattress sensor. • When the patient lies down they may not be making contact with the sensor to activate monitoring. Try a different position for the sensor pad. Most patient weight is normally under buttocks. Chair Belt Sensor • Check that all connections are tight and properly plugged into the alarm.

Troubleshooting Guide *(Continued)*

Problem:	Alarm volume is too low or too loud (see page 11).
Solution:	• Press the VOLUME button on the back of the alarm to change volume setting. Tap the button to scroll through the two choices. The last sample heard is the volume in use.
Problem:	Flashing green indicator light does not illuminate (see page 7).
Solution:	• Check that the battery connections are tight and batteries are installed properly. • Replace the old batteries with four (4) new “AAA” alkaline batteries (see page 7).
Problem:	Alarm “chirps” (see pages 7-8).
Solution:	• A “chirp” sound indicates a low battery. Insert four (4) new “AAA” alkaline batteries. DO NOT mix old and new batteries, or different brands of batteries.
Problem:	Sensors slide around when the head of the bed is raised or lowered on beds with foam overlays (see page 22).
Solution:	• Anchor the sensor(s) on top of the mattress, under the foam overlay with the straps provided.
Problem:	In-room alarm activates, but nurse call station does not activate (see page 15).
Solution:	• Check that all connections are tight and the nurse call cable is connected to the alarm and properly plugged into the facility’s nurse call system. The connections should snap tightly together. • Check for worn or damaged wires. • Verify use of proper adaptor for the system.

System Components and Options

NOTE: All Posey KeepSafe Deluxe systems come with (see page 6):

- Alarm (1)
- “AAA” Alkaline Batteries (4)
- Standard Bed Bracket (Cat. 8276) (1)
- Wall/Chair Bracket without wire clip (Cat. 8276) (1)
- Saddle Bracket (Cat. 8278N) (1)
- KeepSafe Deluxe Nurse Call System (Cat. 8374NC or 8374NPNC) includes Nurse Call Cable component

Available KeepSafe Deluxe and KeepSafe Deluxe NC System Options

KeepSafe Deluxe Chair Pad System (Cat. 8374CP). Includes Chair Pad Sensor (8308).

KeepSafe Deluxe Gel Foam Alarm Cushion System (Cat. 8374GC). Includes Gel Foam Alarm Cushion (7223F).

KeepSafe Deluxe PIR Sensor System (Cat. 8374PIR). Includes PIR Sensor (8351).

KeepSafe Deluxe Wheelchair Belt System (Cat. 8374WB). Includes Chair Belt Sensor (8360).

KeepSafe Deluxe Mobile Chair Belt System (Cat. 8374MB). Includes Mobile Chair Belt Sensor (8371).

KeepSafe Deluxe Hook and Loop Chair Belt System (Cat. 8374VB). Includes Hook and Loop Alarm Belt Sensor (8372).

KeepSafe Deluxe Under Mattress Bed System, Heavy (Cat. 8374H). Includes Under-Mattress Sensor, Heavy (8285H). Accommodates mattresses >42 lbs. (19 kgs.)

KeepSafe Deluxe Under Mattress Bed System, Light (Cat. 8374L). Includes Under-Mattress Sensor, Light (8285L). Accommodates mattresses 38 – 42 lbs. (17-19 kgs.)

KeepSafe Deluxe Under Mattress Bed System (Cat. 8374S). Includes Sitter Under-Mattress Sensor (8292).

KeepSafe Deluxe Disposable Bed System (Cat. 8374DO). Includes Disposable Over-Mattress Sensor (8283).

KeepSafe Deluxe Over Mattress Bed System (Cat. 8374OM). Includes Over-Mattress Sensor (8307).

KeepSafe Deluxe Exit Mat System, Small (Cat. 8374EMS). Includes Exit Alarm Mat, Small (8250S).

KeepSafe Deluxe Exit Mat System, Large (Cat. 8374EML). Includes Exit Alarm Mat, Large (8250L).

Posey Sensors and Accessories for use with KeepSafe Deluxe

Disposable 30-Day Over Mattress Sensor (Cat. 8283). Electronic pressure sensitive sensor pad for over mattress use. Minimum patient weight of 55 lbs. (25 kgs.) to activate sensor. Will accommodate most mattress overlays. Measures 32”L x 13”W (81 cm x 33 cm).

Over Mattress Sensor, 6-month (Cat. 8307). Electronic pressure sensitive sensor pad for over mattress use. Minimum patient weight of 60 lbs. (27 kgs.) to activate sensor. Will accommodate most mattress overlays. Measures 32”L x 13”W (81 cm x 33 cm).

Chair Pad Sensor, Square (Cat. 8308). Electronic pressure sensitive sensor pad designed for use in a wheelchair or Geri-chair. Minimum patient weight of 50 lbs. (23 kgs.) when placed on top of seat cushion and 65 lbs. (29 kgs.) when placed under seat cushion.

Chair Pad Sensor, Single Patient Use (Cat. 8309). Electronic pressure sensitive sensor pad designed for single patient use in a wheelchair or Geri-chair. Measures 13” x 13” (33 cm x 33 cm).

Toilet Sensor (Cat. 8332). For use on toilets. Attaches to toilet seat with adhesive backing.

Posey Under Mattress Bed Sensor, Heavy (Cat. 8285H). Electronic pressure sensitive sensor for under mattress use. Calibrated for standard hospital mattresses weighing more than 42 lbs. (19 kgs.) with a minimum patient weight of 130 lbs. (59 kgs.) to activate the sensor. No maximum pressure. Designed for 34¾" (88 cm) bed width.

Posey Under Mattress Bed Sensor, Light (Cat. 8285L). Electronic pressure sensitive sensor for under mattress use. Calibrated for standard hospital mattresses weighing more than 38 lbs. (17 kgs.) and less than 42 lbs. (19 kgs.) with a minimum patient weight of 50 lbs. (23 kgs.) to activate the sensor. No maximum pressure. Designed for 34¾" (88 cm) bed width.

Gel Foam Alarm Cushion (Cat. 7223F). Electronic pressure sensitive sensor pad designed for use in wheelchair or Geri-chair. Minimum patient weight of 50 lbs. (23 kgs.) when placed on top of seat cushion and 65 lbs. (29 kgs.) when placed under seat cushion.

EZ Clean Alarm Belt (Cat. 8358). Chair Belt Sensor that forms an electronic circuit. Activates when self-release button is pressed. Also serves as a positioning aid for those patients who tend to slide forward. Attaches to chair with "D" rings.

Chair Belt Sensor (Cat. 8360). Chair Belt Sensor that forms an electronic circuit. Activates when self-release button is pressed. Also serves as a positioning aid for those patients who tend to slide forward. Attaches to wheelchair with existing hardware.

Mobile Chair Belt Sensor (Cat. 8371). Chair Belt Sensor that forms an electronic circuit. Activates when self-release button is pressed. Also serves as a positioning aid for those patients who tend to slide forward. Attaches to chair with "D" rings.

Hook and Loop Alarm Belt (Cat. 8372, 8372L). Chair Belt Sensor that forms an electronic circuit. Activated when conductive fabric is separated by pulling on bright yellow hand loop. Also serves as a positioning aid for patients who tend to slide forward. Attaches to a chair with "D" rings. The 8372L is designed for use with larger patients and on larger chairs, such as recliners and upholstered lounge chairs. Secures around back of chair with one set of metal loops at one end to allow the other strap to attach through metal loops.

Exit Alarm Mat, Small (Cat. 8250S). Electronic pressure sensor pad for use on floor. Activates alarm when patient steps on sensor. Measures 36" x 24" (91 cm x 61 cm). Designed for use in a doorway.

Exit Alarm Mat, Large (Cat. 8250L). Electronic pressure sensor pad for use on floor. Activates alarm when patient steps on sensor. Measures 60" x 24" (152 cm x 61 cm). Designed for bedside use.

PIR Sensor (Cat. 8351). Passive Infrared Sensor provides non-invasive patient monitoring. PIR Sensor senses a change in temperature when patient moves in front of Infrared beam and activates alarm.

Bed Bracket, Standard (Cat. 8276). Attaches alarm to headboard or footboard. Fits boards ½" – 2" (1 cm - 5 cm) thick.

Wheelchair/Wall Mount Bracket without wire clip (Cat. 8276). Attaches alarm to wheelchair or Geri-chair using existing chair hardware. Also attaches alarm to a wall using "hook" and "loop" adhesive strips or screws.

Saddle Bracket (Cat. 8278N). Attaches the alarm to the chair.

Wheelchair Bracket (Cat. 8289). Screws into any wheelchair back.

AC Power Adapter (Cat. 8383). Connects alarm to AC power.

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Product Specifications

Alarm

Size: 3"W x 4.3"L x 2"D (8 cm x 11 cm x 5 cm)

Weight: 6.0 oz. (7.6 oz. with batteries), .17 kgs. (.22 kgs. with batteries)

Power Supply: Four (4) "AAA" alkaline batteries. Optional AC power adapter (Cat. 8383) 9 VDC.

Battery Life Expectancy: Approximately 30 days of daily use; may vary

Current Drain: Non-alarmed monitoring mode 0.22 mA, maximum alarm volume 132 mA

Alarm Maximum Volume: 100 $\pm$ 5dB

Voltage Range: 4.6-6.3 VDC

Low Battery Warning: Audible, low battery "chirp" about every 15 seconds when batteries need changing.

Sensors

SENSOR	DIMENSIONS	WEIGHT
Under Mattress Sensor (Cat. 8285H, 8285L)	34 $\frac{3}{4}$ "L x 3"W x 0.3"H (88 cm x 8 cm x 1 cm), cord length 96" (244 cm)	2.2 lbs. (1 kgs.)
Over Mattress Sensor Pad (Cat. 8283, 8307)	32"L x 13"W (81 cm x 33 cm), cord length 96" (244 cm)	0.82 lbs. (.37 kgs.)
Chair Pad Sensor (Cat. 8308, 8309)	13"W x 13"L (33 cm x 33 cm), cord length 36" (91 cm)	0.3 lbs. (.14 kgs.)
Toilet Seat Sensor (Cat. 8332)	2 $\frac{3}{4}$ "W x 5 $\frac{1}{2}$ "L (7 cm x 14 cm), cord length 12" (30 cm)	0.08 lbs. (0.03 kgs.)
Gel Foam Alarm Cushion (Cat. 7223F)	18"W x 16"D x 2"H (46 cm x 41 cm x 5 cm), cord length 22" (56 cm)	6.4 lbs. (2.9 kgs.) without sensor pad 6.7 lbs. (3.0 kgs.) with sensor pad
Chair Belt Sensor (Cat. 8360, 8371)	Adjustable 21" to 44" (53 cm to 112 cm), cord length 28" (71 cm)	.7 lbs. (.32 kgs.)

Limited Lifetime Warranty

The Posey Company is committed to manufacturing the best quality products. Posey warrants to the original purchaser that the Posey KeepSafe Deluxe is defect-free in materials and workmanship. If the product is found to be defective in workmanship or materials, we will replace or repair it without charge. This warranty does not cover accidental damage, water immersion, improper care, alteration or misuse, and excludes claims for loss or theft. Service under this warranty is available by contacting the Posey Customer Service hotline (1.800.447.6739 or 1.626.443.3143) for a return authorization, and by forwarding the product in clean condition, freight pre-paid, with dated proof of purchase. This warranty gives you specific legal rights, and you may also have other rights, which vary from state to state.

Repair Service

Return all alarms for repair to:

Posey Company – KeepSafe Deluxe Repairs • 5635 Peck Road • Arcadia, CA 91006

Insure for \$100.00. For additional information or questions, call the Posey Company:

1.800.447.6739 or 1.626.443.3143.



Posey Company • 5635 Peck Road, Arcadia, CA 91006-0020 USA • www.posey.com

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