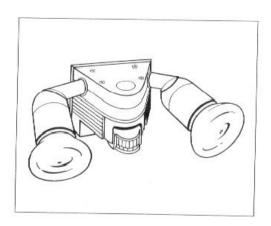
Night GUARDIAN™ made by STENET



English

Owner's use & care manual

Read this use & care manual before using. Keep for future reference. Save this Manual.

Français

Español

Notice d'utilisation et d'entretien

Lire cette notice d'utilisation et d'entretien avant l'emploi et la ranger pour s'y reporter ultérieurement.

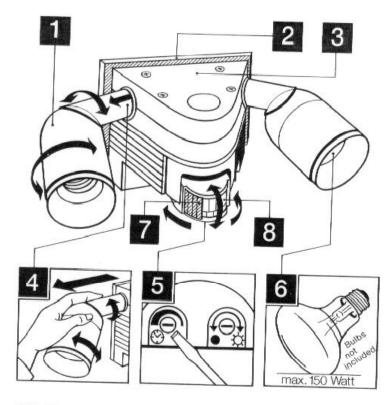
Made in Germany





Manual de uso y mantenimiento

Rogamos leá este manual de uso y mantenimiento antes de instalar el producto. Cuide y mantenga este manual para futuro uso.



- 2 Backplate
- Night GUARDIAN™ Fixture
 (Top)
 Plaque arrière
 (Top)
 Unité Night GU
- Aim N' Lock adjustments
- Time and lux set screws
- Standard par lamp
- Clip on shroud in place
- Sensor vertical and horizontal adjustments
- blocage rapide

 - Unité Night GUARDIAN™ (au-dessus)
 - Réglages d'orientation et blocage
 - Vis de réglage de minu terie et de crépuscularité
 - Lampes PAR standard
 - Caches enfichables positionnés
 - Réglages horizontal et vertical du détecteur

- Portabombilla encastable
- Placa trasera de montaje
- Fijación superior Night GUARDIAN™
- Fijación encastable
- Tornillos de regulación del temporizador y de lux
- Bombillas standard PAR
- Cubiertas reductoras
- Sensor orientable horizontal y verticalmente

Technical Specifications

| Housing size (H x W x D): | 5" x 11½" x 5" | |
|---|---|--|
| Supply voltage: | 120 V / 60 Hz | |
| Switching capacity: | max, 300 watts fluorescent (incl. low-consumption type | |
| Detection angle of sensor: | 140° horizontal / Plane A (10 zones) | |
| Sneak-by guard: | 90° horizontal / Plane B (6 zones) 8° vertical | |
| Swivelling range of sensor: | 130° horizontal, 65° vertical | |
| Ränge over which detection is adjustable: | 270° horizontal | |
| "ON" time: | 10 sec. to 15 min., adjustable | |
| Sensor reach: | min. 40 feet in front, 23 feet at sides | |
| Type of enclosure: | Raintight | |
| Bulbs: | max. 150 watt PAR or quartz flood lamps, PL fluorescent flood with low temp. start | |

Night GUARDIAN™ Features / Principle of Operation

All STEINEL Motion Sensors use pyroelectric infra-red technology to detect in-visible heat radiation emitted by pedestrians or cars.

The thermal radiation detected is converted electro-nically to switch the lights on. By using high speed cir-cuitry with surface mount technology, STEINEL has created the most accurat dependable sensor syste available.

STEINEL Distortion Free Lens with two Detection Planes

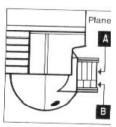
The STEINEL lens is designed and manufactured to assure accuracy, full / accurate zone coverage and raintight rating for

years of service. The STEINEL lens is molded curved, not flat. (Competitors use a molded flat lens which may distort readability when bent into curved form.) STEINEL lens contains 16 total precise viewing windows (plane A) with a sneak-by-guard (plane B). The viewing windows are

designed to give you maximum sensitivity in all areas. The sneak-by-guard will sense passage directly under the unit.

On the lens are viewing windows that vary in width to provide total motion detection accuracy. In the lens the viewing windows front the viewing windows are more narrow while on the sides they are wider. This allows you to direct your sensor straight into the zone and allows equal

sensitivity in front and on the sides.



Distance & Coverage of Detection Zone

STEINEL technology allows you maximum coverage and automatically adjusts to temperature changes once you set the unit.

• All motion sensors are effected by temperature changes.

- changes.
- The colder the temperature the longer the reach of the detection zone.

The accuracy of the STEINEL system is not effected by this temperature change. It will Automatically Adjust to the Changes in Temperature and Read the Situation Correctly Everytime.

- Therefore we do not have:
- Sensitivity Control
 Range Control

Seasonal Adjustment fo

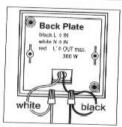
Accuracy
The width of the zone is no effected by temperature. STEINEL products work in temperature ranges from -40° F to 120° F.

Built-In Surge Protection

Every STEINEL motion sen-sor contains built in surge protection. This feature will re-set the unit automatically and instantaneously after:

 Power Surges
 Power Outages
 Power Shortages Surge protection protects the sensor unit if it is miswired. If you mis-wire, shut off the power, correct the connections, and the sen-sor will again operate.

Installation



Caution: Read this entire instruction manual before you start installation.

If you are not experienced with wiring, please consult a qualified electrician. All wiring should comply with local codes.

Tools required: Flat head screwdriver and Phillips head screwdriver.

Warning: 120 Volts can be lethal. Before wiring make sure that the power is off at the fuse box.

- Installation:
 A. Remove back plate
 from Night GUARDIAN™.
- B. Install enclosed X bar to the junction box using 2 (two) %" screws with regular flathead screw driver.
- C. Adjust X bar to a horizontal position that lines up with the pre-drilled holes in the back plate. Tighten center screw on X bar to lock into position.
- D. Feed wires through the center hole of the back-plate.
- E. Properly connect the wires from Night GUARDIAN™ unit to the corresponding wires in the junction box.
- F. Fasten backplate to crossbar using the 2 (two) screws.
 Tighten to assure back plate is firmly in place.

Connection of power supply lead

The connection lead consists of 2 wires:

L = hot wire (usually black)

N = neutral wire (usually problem) white) In case of doubt, identify the individual conductors with a voltage tester or con-tact a qualified electrician.

Note: If any STEINEL product is mis-wired it will not destroy the unit. Simply rewire correctly using a voltage tester to identify wires and proceed.

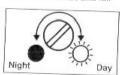
Note: While Night GUARDIAN™ is totally raintight, you may want to use a silicone sealant around the junction SIBV

Once in place you have only two settings to adjust at the bottom of the unit. Time Setting - 10 seconds to 15 minutes.



Timer Setting Light on for approximately 10 sec. to 15 min. max.

Light threshold (lux setting) - Full daylight to total darkness. All sensors are factory set at 10 seconds and full-



Twilight Setting approximately 2 to 2,000 lux.

daylight operation. See also illustration ■ Night GUARDIAN™ will operate in full daylight i required.

Note: Timer and light th hold settings are not exa Each installation varies a customers' needs differ. You may want to make small adjustments after : few days of operation. Fine tuning your Night GUARDIAN™ is sin and can be achieved ver quickly.

Manual Override

Night GUARDIAN™ can be easily switched to override the sensor and turn the lights on. Manual override can be activated day or night.

1) To activate manual override flip the wall switch OFF/ON and OFF/ON within 2 seconds. Your lights are now on.
To verify that you are in manual override look at

the sensor lens, you should see a red indicator light behind the lens in the upper right hand

corner.

If the red light is visible you are in manual over-ride.

(If the red light is not visible please refer to pa-ragraph 3). Manual Override is controlled by a microprocessor to remain on for 4 hours.
After this period of time the red light is no longer visible, the lights automatically turn-off and the unit returns to normal operation.

- To resume sensor mode prior to the 4 hour preprogrammed reset time. simply flip the wall switch OFF/ON once within
 2 seconds. The red indicator light is no longer
 visible, the lights turn off,
 and the unit returns to sensor mode
- 3) Note: If you complete the OFF/ON and OFF/ON manual override proce-dure and the red light is not visible repeat the procedure again making certain that you complete the process within 2 seconds.
- Note: If the unit is accidentally switched OFF/ON and OFF/ON in OFF/ON and OFF/ON in a time span greater than 2 seconds, the red indi-cator light is not visible and the lights will remain on for the length of timer setting. setting.

- Note: If the switch is operated OFF/ON only once, the red indicator light is not visible and th lights remain on only for the length of timer setting.
- 6) Note: Unit cannot be wired to any wall switch that has a bright light or continuous light in the toggle. These devises have continuous power through the switch even when the switch is in the off position. Our microprocessor is program-med to activate manual override after two quick power disconnects. These wall switches do not allow the disconnect to take place.

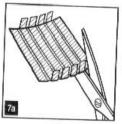
Adjustment and Pinpointing of Detection Zones

By moving the sensor sidewise (left to right) by 130° or alternatively moving the sensor up and down by 65° the reach can best be set to meet your require-

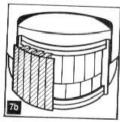


ments. The incl. clip-on shrouds are made up of six 10° sections which can be snapped or cut off individually allowing you to create detection zones for

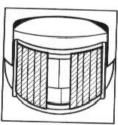
alleys, one side only or other speciality areas. The shrouds easily can be clipped on to the unit without changing the lens.



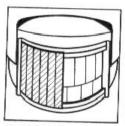
Clip-on shrouds with individual break-off sections of 10° each.



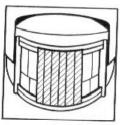
Left or right side only.



Narrow-Alley Zone.



Left or right side only.



Split Zone.

SIBV

Only Night GUARDIAN™ offers the Aim n' Lock lampholders.
This unique system does not require tools and assures the lampholders remain locked in place without sagging or becoming loose. Each lampholder can be adjusted in two locations. Simply pull-out, align to desired position, and push in

to lock in place. See illustrations and ... It is easier to make final adjustments to the lampholders after installation. This will give you the opportunity to maximize your light coverage and also to be certain the bulbs are not blocking any part of the viewing angle of the sensor.

Note:

Night GUARDIAN™ will accept PL fluorescent flood lamps. Make sure they are cold temperature rated you are using the unit in areas that require this f ture. Any quartz, Par, Rtype lamps may also be used. Maximum 300 wa (150 watts per lamphok Bulbs not included.

Testing after Installation

To assure the proper direction of your motion sensor take the following steps

- Factory setting of the unit is 10 seconds and full daylight operation. (Meaning both set screws located at the bottom of the unit are fully clockwise as you face the unit).
- Direct the unit to the desired detection area. Allow the light to go off (10 secs.) and then walk into the zone. Note at what point the light comes on. Best detection is achieved when entering the detection zone from an angle. Position your Night GUARDIANTM accordingly.
- Repeat this process for the side zones to assure complete zone coverage. (Note: Once the light goes off you may immediately step into the zone again.)
- Because the STEINEL system re-sets immediately this process will not take long.
- After you are satisfied with the zone setting you can set your light threshold to the desired settings.

Note: Lux setting (Light Threshold) tells your unit at what degree of darkness the unit will begin working. The setting will run from full-daylight to total darkness

- Now set the timer to the preferred amount of tirthat you would like the lights to remain on after detecting motion. Minimum approximately 10 seconds to maximu 15 minutes.
- Night GUARDIAN™ doe not require a test mod feature like many other units with old technoloit is not required. Simple follow the above directions.

Maintenance

The fresnel lens should be periodically wiped clean

with a damp cloth if it gets dirty.

Do not use any cleansing materials.

| Trouble | Shooting | Guide |
|---------|----------|-------|
|---------|----------|-------|

| Light does not come on. | Is power going to the unit? | Action Check panel box to verify tha circuit breaker has not been tripped. Verify that wall switch is in the |
|--|---|--|
| | ■ Is light bulb properly installed? | on position. Verify that power is going to unit by switching to manual override mode at the wall switch (see Night GUARDI-AN™ manual override section). Note: Manual Override can be activated day or night. |
| University | ■ Is bulb faulty or burned- out? ■ Is bux setting positioned to activate the sensor at desired time of day? (See Night GUARDIAN™ settings section.) ■ Is the wiring loose or incorrect? | ■ Turn off power at circuit brea- ker before checking. Note: If the Night GUARDIAN™ is mis-wired it will not destroy the unit. Simply rewire correctly and proceed. |
| Light does not turn off. | Is the unit in manual override? Is the unit detecting movement outside of desired sensing zone? | Check for red indicator light behind lens in upper right hand corner. If visible, switch unit out of manual override (see Night GUARDIAN™ manual override section). Readjust detection zone using clip-on-shrouds if required. Verify that the timer is properly set (see Night GUARDI-AN™ settings section). |
| Light randomly turns on and off. | Is the wiring loose? Is the unit detecting movement outside of desired sensing zone? | Turn off power at circuit breaker before checking. Readjust detection zone using clip-on-shrouds if required. |
| Unit does not go into manual override. | ■ Did not complete the switching motion within 2 seconds. ■ Is the wall switch the type that has a lighted toggle or a continuous night light? | Repeat the switching motion completing it within the 2 second time frame. Replace wall switch with unlighted type. Lighted wall switches have continuous power and never completely shut off power. The microprocessor must have complete power shut off to activate the manual override. Red indicator light behind lens will indicate you are in override. |

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Because Night GUARDIAN™ ist the most technologically advanced motion sensor available it is able to perform in many installation applications that are pro-blematic for other products. This list will answer some questions you may have.

- Night GUARDIAN™ is ⑥ and (ii) listed raintight. This includes the lamp holders. Others are rated "wet areas only". This means Night GUARDIAN™ can be put in open weather and the lampholder, if desired, can be pointed directly up towards the sky. Rain, snow and moisture will not affect the operation of the sensor or lampholder.
- Night GUARDIAN™ does not require a dedicated circuit to operate properly. You may wire it on the same circuit with other appliances like HVAC, washer/dryer or garage door openers.
- Night GUARDIAN™ can be wired in parallel with other Night GUARDIAN™ sensors.
- Night GUARDIAN™ may be used with a relay, if required.
- Night GUARDIAN™ has no mounting height restrictions. Our exclusive sneak by guard prevents anyone from sneaking under the unit. Keep in mind, the higher the mounting, the shorter the optimum distance.
- Night GUARDIAN™ senses motion directly toward the sensor. You are not required to turn the sensor head sideways to increase sensitivity.

- The minimum distance Night GUARDIAN™ will cover is approximately 40'. Because installations vary and temperatu-res vary, coverage can be much greater. This coverage is also affected by mounting height. It is important to note that Night GUARDIANS'™ accuracy is not affected by these variables.
- Night GUARDIAN™ will not be destroyed if miswired. Simply turn the power off, make the wiring corrections and proceed.
- Night GUARDIAN™ will not be affected by waving branches, swimming pool reflections, heating vents, open windows, reflecting lights or bright colored surfaces.
- Night GUARDIAN™ will not be affected by heavy rain, snow, sleet, high winds or barometric pressure changes
- Night GUARDIAN™ will not trigger because of insects or moths being drawn to the light.
- Night GUARDIAN™ will accept, and operate with PL "A" or "R" type lamps. We recommend the use of PAR or quartz floods as they are more readily available and will give you optimum light. Consider using energy saving, lower wattage lamps.
- Night GUARDIAN™ may be placed in open weather. It does not require mounting in a protected area
- Night GUARDIAN™ will not be affected by power surges.

- Night GUARDIAN™ 1 not be affected by s radio signals, such a CB, ham, cellular tel phone or VHF radio transmission.
- Night GUARDIAN™ will not leak, allowin insects, moisture an water into the unit.
- Night GUARDIAN™ exclusive microproc manual override will be initiated on by po surges or power outages.

If you have any questi concerning the care, up or installation of your GUARDIAN™ motion sensor, please call us free at 1-800-852-43 Office hours are 8:00 4:30 PM Central Stantime.

Note: If you have que concerning wiring oth than the Night GUAR to a junction box, ple consult with a qualifit electrician. We can n instructions beyond limit of our product.

Warranty

Lifetime Limited Warranty

STEINEL America, Inc., (the "Company") warrants its products to be free from defective material and workmanship, within generally accepted industry standards as long as the original purchaser owns the product except the glass globe, which shall be warranted, as set forth herein, for a period of one year from the date of purchase. The liability of the Company under this warranty shall be limited, at the Company's option, to the repair or replacement of any product found to be defective within the meaning of this warranty. The Company shall be liable for no other damages or losses.

This warranty does not apply where: (1) repairs or attempted repairs have been made by others; (2) relating only to the globe, repairs are required because of normal wear and tear; (3) the product has been abused, misused, or improperly maintained; or (4) alterations have been made to the product.

To obtain repair or replacement, you must, within 30 days of discovery of the defect, return the product, postage pre-paid to:

STEINEL AMERICA, INC. Lyndale Business Center 9051 Lyndale Avenue South Bloomington, MN 55420

Please enclose a letter explaining the problem or defect, with a copy of the proof of purchase. Allow approximately four weeks for delivery of a replacement or repair and return of the product.

The warranty described herein shall be in lieu of any other warranty, express or implied. Including but not limited to, any implied warranty of merchantability or fitness for a particular purpose.

The parties agree that the purchaser's sole and exclusive remedy against the company shall be for the repair or replacement of the product, as provided for herein. Purchaser agrees that no other remedy (including, but not limited to, actions for actual direct loss or damage, incidental or consequential

damages for lost profits, lost sales, injury to person or property or any other actual, direct, incidental or consequential loss) shall be available to purchaser.

Any and all other statements about the merchandise being purchased under this contract, whether oral or written, do not constitute a warranty, and shall not be relied upon by the purchaser, and are not part of the contract for sale. The entire contract is embodied in this writing. This writing constitutes the final expression of the parties' agreement and is a complete and exclusive statement of the terms of that agreement.

This warranty gives you specific legal rights, and you may have other rights which vary from state to state.

- * Lifetime
- * Limited
- * Warranty