1. Adjust the “TIME” control to set the ON time from about 6 seconds to the maximum 12 minutes. This period starts after body movement within the detection area is sensed.

2. Adjust the “LUX” control to set the detection distance up to about 8 meters.

3. Adjust the “METER” to set the detection distance up to about 8 meters.

Troubleshooting

Each sensor switch has undergone rigorous testing and quality control; malfunctions are mostly due to incorrect installation or exposure to heat sources.

Lights Do Not Turn On
1. Turn off power for at least 5 seconds, then on again.
2. Check that the slide switch is in the “ON” position.
3. Check that the slide switch is not in the “OFF” position.
4. Check that the sensor switch is not detected by a light source.
5. Keep out of the detection area to avoid activating.

Lights Come On And Off Quickly
1. Adjust the “LUX” to set the light level required for operation to start at the required light level.
2. Adjust the “METER” to set the detection distance up to about 8 meters.
3. Adjust the “TIME” control to set the ON time from about 6 seconds to the maximum 12 minutes.

This is the silver label which can be used to cover the lens as (Fig. 10) shown.

Specifications
Supply Voltage: 230VAC 50Hz.

Load: 40W/80W for transcendent light.
60W/80W for low voltage
18W/54W for fluorescent light with electronic ballast.
15W/39W for electronic PL lamp (Philips, Osram only).
Light ON Time: 18-150W for fluorescent light.

Trouble shooting:
Lights Do Not Turn On
1. Turn off power for at least 5 seconds, then on again.
2. Check that the slide switch is in the “ON” position.
3. Keep out of the detection area to avoid activating.
4. Make sure the unit is not mounted on an unstable object which is warm.
5. Make sure the lens is not aimed at something that would cause a temperature change such as air conditioners or heating vents.
6. Turn power off for more than 5 seconds, then turn on again to resume automatic operation.
7. Make sure line voltage is stable.

Note:
Keep the lens area clean and free of obstructions. Do not attempt to open or repair the unit.

Do not use with fluorescent and PL lamps that have conventional ballast (iron ballast). This will damage the starter and cause the ZV810 to retrigger.

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Note:
Do not use with fluorescent and PL lamps that have conventional ballast (iron ballast). This will damage the starter and cause the ZV810 to retrigger.
To avoid nuisance triggering
- Your sensor switch may be activated by large animals, lights, reflective surfaces, heat sources or movements of objects.
- The following guideline will help you to avoid nuisance triggering:
  - Do not aim the sensor towards any light sources.
  - Avoid mounting the sensor near heat sources, such as heating vents, air conditioners, dryer vents or lights.
  - Avoid directing the sensor toward areas or whose surfaces are highly reflective or are subject to rapid temperature change, such as pools.

The ZV810 can be installed at various heights from 0.8M to 1.2M to detect a zone up to 8M in range over a 180º angle. (See Fig.1)

**Pattern**

<table>
<thead>
<tr>
<th>Cover</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Light switch</td>
<td>1</td>
</tr>
<tr>
<td>Interchangeable silver switch label</td>
<td>1</td>
</tr>
</tbody>
</table>

**Content**

6. Adjust the “TIME”, “METER” and “LUX” knobs for “Walk Test” over the desired detection zone. (See Fig.6)
7. Screw the inner frame in place and replace the lifting-front cover.

**B. Installation procedure**

1. Ensure the power supply is switched off.
2. Open the front cover, to reveal the fixingscrews (See Fig.3)
3. Loosen the screws holding the lifting-front cover (See Fig.4)
4. Remove the sensor from the wall box, making sure the wiring harness supplied is not disconnected from the sensor (See Fig.5)
5. To replace both 2 way switches in a two way circuit please refer to Fig.8
6. To replace 2 way switch please refer to Fig.7 for wiring instructions, for the pre-set period.
7. When the Remote Switch is actuated, lights will remain on for the pre-set period.

**C. Wiring Diagrams**

1. To replace a one way switch (See Fig.5)
2. To replace a 2 way switch in a two way circuit. (See Fig.6)
3. To replace both 2 way switches in a two way circuit. (See Fig.8)

**Walk Test and Adjustment**

1. After the main part of the motion sensor switch has been fitted to the wall box turn the power on to warm up sensor for at least 5 minutes to stabilize the sensor for normal operation before carrying out the “Walk Test”.
2. Switch the sensor switch to the standby position for “AUTO” function (See Fig.11)
3. Start from outside the pattern and walk across it until the lights come on. (See Fig.9)
4. Adjust the sensor “METER” knob as necessary to improve coverage until it meets users preference. (See Fig.11)

**Coverage**

The ZV810 can be installed at various heights from 800 to 1200 mm to detect a zone up to 8 m in range over a 180º angle. (See Fig.1)

**Walk Test**

Start
Fig. 1
Finish

**Installation and Wiring**

This product must be wired in accordance with the IEE Wiring Regulations. If you have any doubts about your ability to install this product consult a competent electrician.

- Switch off the power supply before installation and wiring.

**A. Select a location**

- For indoor use only ie: hallways, dining rooms, basements, utility rooms and garages, etc.
- To replace existing one way or two way light switches.
- Since the ZV810 is sensitive to temperature changes. Avoid mounting directly above heat sources or exposed to direct sunlight.
- Avoid mounting the motion sensor switch where it can come into contact with water or rain.
- For best results mount the sensor switch to detect objects moving across it. (See Fig.2)

**3 Year Guarantee**

In the unlikely event of this product becoming faulty due to defective material or manufacture within 3 years of the date of purchase, please return it to your supplier in the first year with proof of purchase and it will be replaced free of charge.

For the second and third years or any difficulty in the first year telephone the helpline on 020 8450 0515.

**HELPLINE**

020 8450 0515

For a product brochure please contact:

Timeguard Ltd.
Victory Park, 400 Edgware Road,
London NW2 6ND

020 8452 1112

or email cs@timeguard.com
ZV810 Motion Sensor PIR Light Switch
Please read the instructions before using the product and retain for future use.

To avoid nuisance triggering
Your sensor switch may be activated by large animals, lights, reflective surfaces, heat sources or movements of objects. The following guidelines will help you to avoid nuisance triggering:
1. Do not point the sensor towards any light sources.
2. Avoid mounting the sensor near heat sources, such as heating vents, air conditioners, dryer vents or lights.
3. Avoid directing the sensor toward areas whose surfaces are highly reflective or are subject to rapid temperature change, such as pools.

The ZV810 can be installed at various heights from 0.8M to 1.2M to detect a zone up to 8M in range over a 180º angle. (See Fig. 1)

Installation and Wiring
This product must be wired in accordance with the IEE Wiring Regulations. If you have any doubts about your ability to install this product consult a competent electrician. Switch off the power supply before installation and wiring.

A. Select a location
• For indoor use only ie: hallways, dining-rooms, basements, utility rooms and garages, etc. To replace existing one way or two way light switches.
• Since the ZV810 is sensitive to temperature changes. Avoid mounting directly above heat sources or exposed to direct sunlight.
• Avoid mounting the motion sensor switch where it can come into contact with water or rain.
• For best results mount the sensor switch to detect objects moving across it. (See Fig.2)

B. Installation procedure
1. Ensure the power supply is switched off.
2. Open the front cover, to reveal the fixingscrews (See Fig.3)
3. Loosen the fixingscrews and remove the lifting-front cover.
4. Disconnect the wiring from the mains into plugin terminals (See Fig. 4)
5. Place the sensor switch to the wall box with screws supplied.

C. Wiring Diagrams
1. To replace a one way switch. (See Fig. 5)
2. To replace a 2 way switch in a two way circuit. (such as stairs). (See Fig. 6)
3. To replace both 2 way switches in a two way circuit. (See Fig. 8)

- Wire dimension:
  Min. 0.5mm²
  Max. 2.0mm²

- To replace a 2 way switch please refer to Fig. 7 for wire connection and add a link to the remote switch.
- When the Remote Switch is actuated, lights will remain on for the pre-set period.
- To replace a 2 way switch please refer to Fig. 7 for wire connection and add a link to the remote switch.

Walk Test and Adjustment
A. Walk Test
1. After the main part of the motion sensor switch has been fitted to the wall box turn the power on to warm up sensor for at least 3 minutes to stabilise the sensor for normal operation before carrying out the “Walk Test”.
2. Switch the sensor switch to the editable position for “AUTO” function. (See Fig. 11)
3. Start from outside the pattern and walk across until the lights come on. (See Fig. 9)
4. Adjust the sensor “METER” knob as necessary to improve coverage until it meets users preference. (See Fig.11)

3 Year Guarantee
In the unlikely event of this product becoming faulty due to defective material or manufacture within 3 years of the date of purchase, please return it to your supplier in the first year with proof of purchase and it will be replaced free of charge.
For the second and third years or any difficulty in the first year telephone the helpline on 020-8450-0515.

HELPLINE
020-8450-0515
For a product brochure please contact:
Timeguard Ltd.
Victory Park, 400 Edgware Road.
London NW2 6ND
020-8420-0212
or email csc@timeguard.com

For a product brochure please contact:
Timeguard Ltd.
Victory Park, 400 Edgware Road.
London NW2 6ND
020-8420-0212
or email csc@timeguard.com
ZV810 Motion Sensor PIR Light Switch

Please read the instructions before using the product and retain for future use.

To avoid nuisance triggering
Your sensor switch may be activated by large animals, lights, reflective surfaces, heat sources or movements of objects. The following guidance will help you to avoid nuisance triggering:

- Do not aim the sensor towards any light sources.
- Avoid mounting the sensor near heat sources, such as heating vents, air conditioners, dryer vents or lights.
- Avoid directing the sensor toward areas or whose surfaces are highly reflective or are subject to rapid temperature change, such as pools.

The ZV810 can be installed at various heights from 0.8M to 1.2M to detect a zone up to 8M in range over a 180º angle. (See Fig.1)

Pattern

<table>
<thead>
<tr>
<th>Pattern</th>
<th>Light Switch</th>
<th>Front Cover</th>
<th>Screws Label</th>
</tr>
</thead>
<tbody>
<tr>
<td>Material</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
</tbody>
</table>

Coverage

The ZV810 can be installed at various heights from 0.80 to 1.2M to detect a zone up to 180º in range over a 180º angle. (See Fig. 1)

Installation and Wiring

This product must be wired in accordance with the IEE Wiring Regulations. If you have any doubt about your ability to install this product consult a competent electrician. Switch off the power supply below installation and wiring.

A. Select a location
- For indoor use only ie: hallways, dining-rooms, basements, utility rooms and garages, etc. to replace existing one way or two way light switches.
- Since the ZV810 is sensitive to temperature changes. Avoid mounting directly above heat sources or exposed to direct sunlight.
- Avoid mounting the motion sensor switch where it can come into contact with water or rain.
- For best results mount the sensor switch to detect objects moving across it. (See Fig.2)

B. Installation procedure

1. Mount the sensor switch on the wall with screws supplied.
2. To replace a 2 way switch in a two way circuit: (See Fig. 3)
3. To replace both 2 way switches in a two way circuit. (See Fig. 8)

C. Wiring Diagrams

1. To replace a one way switch. (See Fig.5)
2. To replace a 2 way switch in a two way circuit: (See Fig. 6)
3. To replace both 2 way switches in a two way circuit. (See Fig. 9)

6. Adjust the "TIME", "METER" and "LUX" knobs for "Walk Test" over the desired detection zone. (See Fig.6)
7. Screw the inner frame in place and replace the lifting-front cover.

A. Walk Test

1. After the main part of the motion sensor switch has been fitted to the wall box turn the power on to warm up sensor for at least 5 minutes to stabilise sensor for normal operation before carrying out the "Walk Test".
2. Switch the sensor switch to the enable position for AUTO function. (See Fig. 11)
3. Start from outside the pattern and walk across until the lights come on. (See Fig. 9)
4. Adjust the sensor “METER” knob as necessary to improve coverage until it meets users preference. (See Fig. 11)

3 Year Guarantee

In the unlikely event of this product becoming faulty due to defective material or manufacture within 3 years of the date of purchase, please return it to your supplier in the first year with proof of purchase and it will be replaced free of charge.

For the second and third years or any difficulty in the first year telephone the helpline on 020 8450 0515.

HELPLINE
020-8450-0515

For a product brochure please contact:
Timeguard Ltd.
Victory Park, 400 Edgware Road,
London NW2 6ND
020-8482-0000
or email csc@timeguard.com
ZV810 Motion Sensor PIR
Light Switch

Please read the instructions before using the product and retain for future use.

To avoid nuisance triggering
Your sensor switch may be activated by large animals, lights, reflective surfaces, heat sources or movements of objects. The following guidelines will help you to avoid nuisance triggering:
• Do not aim the sensor towards any light sources.
• Avoid mounting the sensor near heat sources, such as heating vents, air conditioners, dryer vents or lights.
• Avoid directing the sensor toward areas or whose surfaces are highly reflective or are subject to rapid temperature change, such as pools.

The ZV810 can be installed at various heights from 0.8M to 1.2M to detect a zone up to 8M in range over a 180º angle. (See Fig. 1)

Installation and Wiring

A. Select a location
• For indoor use only ie: hallways, dining- rooms, basements, utility rooms and garages, etc. to replace existing one way or two way light switches.
• Since the ZV810 is sensitive to temperature changes. Avoid mounting directly above heat sources or exposed to direct sunlight.
• Avoid mounting the motion sensor switch where it can come into contact with water or rain.
• For best results mount the sensor switch to detect objects moving across it. (See Fig.2)

B. Installation procedure
1. Ensure the power supply is switched off.
2. Open the front cover, to reveal the fixingscrews (See Fig.3) 3. Loosen the sensor switch screws and slide sensor switch to wiring diagrams, for wiring instructions. 5. Fix the motion sensor wall switch to the wall box with screws supplied.

Walk Test and Adjustment
A. Walk Test
1. After the main part of the motion sensor switch has been fitted to the wall box turn the power on to warm up sensor for at least 5 minutes. (See Fig. 6) 2. Switch the sensor switch to the slideable position for “AUTO” function, (See Fig. 10) 3. Start from outside the pattern and walk across to the lights come on. (See Fig. 9) 4. Adjust the sensor “METER” knob as necessary to improve coverage until it meets users preference. (See Fig.11)

C. Wiring Diagrams
1. To replace a one way switch. (See Fig.5 ) 2. To replace a 2 way switch in a two way circuit, (See Fig. 6) 3. To replace both 2 way switches in a two way circuit. (See Fig. 8)

• Wire dimension:
   Min. 0.5mm
   Max. 2.0mm

Walk Test and Adjustment

C. Wiring Diagrams

• To replace a 2 way switch please refer to Fig. 7 for wire connection and add a link to the remote switch.
• When the Remote Switch is actuated, lights will remain on for the preset period.

3 Year Guarantee
In the unlikely event of this product becoming faulty due to defective material or manufacture within 3 years of the date of purchase, please return it to your supplier in the first year with proof of purchase and it will be replaced free of charge.

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020-8450-0515

For a product brochure please contact:
Timeguard Ltd.
Victory Park, 400 Edgware Road, London NW2 6ND
020-8452-1112
or email csc@timeguard.com
ZV810 Motion Sensor PIR Light Switch

Please read the instructions before using the product and retain for future use.

To avoid nuisance triggering:
- Your sensor switch may be activated by large animals, lights, reflective surfaces, heat sources or movements of objects.
- The following guidelines will help you to avoid nuisance triggering:
  - Do not aim the sensor towards any light sources.
  - Avoid mounting the sensor near heat sources, such as heating vents, air conditioners, dryer vents or lights.
  - Avoid directing the sensor towards areas whose surfaces are highly reflective or are subject to rapid temperature change, such as pools.

The ZV810 can be installed at various heights from 0.8M to 1.2M to detect a zone up to 8M in range over a 180º angle. (See Fig. 1)

Installation and Wiring

This product must be wired in accordance with the IEE Wiring Regulations. If you have any doubts about your ability to install this product consult a competent electrician. Switch off the power supply before installation and wiring.

A. Select a location
- For indoor use only ie: hallways, dining-rooms, basement, utility rooms and garages, etc. to replace existing one way or two way light switches.
- Since the ZV810 is sensitive to temperature changes. Avoid mounting directly above heat sources or exposed to direct sunlight.
- Avoid mounting the motion sensor switch where it can come into contact with water or rain.
- For best results mount the sensor switch to detect objects moving across it. (See Fig. 2)

B. Installation procedure
1. Ensure the power supply is switched off.
2. Open the front cover, to reveal the fixingscrews (See Fig. 3)
3. Loosen the fixing screws and lift off the fixing plate.
4. Slide the inner frame into position and attach with screws supplied.
5. Fix the motion sensor wall switch to the wall box with screws supplied.
6. Adjust the “TIME”, “METER” and “LUX” knobs for “Walk Test” over the desired detection zone. (See Fig. 4)
7. Screw the inner frame in place and replace the lifting-front cover.

Walk Test and Adjustment

A. Walk Test
1. After the main part of the motion sensor switch has been fitted to the wall box turn the power on to warm up sensor for at least 3 minutes to stabilise the sensor for normal operation before carrying out the “Walk Test”.
2. Switch the sensor switch to the enable position for “AUTO” function. (See Fig. 5)
3. Start from outside the pattern and walk across it until the lights come on. (See Fig. 9)
4. Adjust the sensor “METER” knob as necessary to improve coverage until it meets users preference. (See Fig. 11)

C. Wiring Diagrams
1. To replace a one way switch. (See Fig. 5)
2. To replace a 2 way switch in a two way circuit. (such as stairs). (See Fig. 6)
3. To replace both 2 way switches in a two way circuit. (See Fig. 8)

• Wire dimension:
  - Min. 0.5mm²
  - Max. 2.0mm²

• To replace a 2 way switch please refer to Fig. 7 for wire connection and add a link to the remote switch.
• When the Remote Switch is actuated, lights will remain on for the preset period.

3 Year Guarantee

In the unlikely event of this product becoming faulty due to defective material or manufacture within 3 years of the date of purchase, please return it to your supplier in the first year with proof of purchase and it will be replaced free of charge.

For the second and third years or any difficulty in the first year telephone the helpline on 020 8450 0515.

HELPLINE
020-8450-0515

For a product brochure please contact:
Timeguard Ltd.
Victory Park, 400 Edgware Road,
London NW2 6ND
020-8425-0317
or email csc@timeguard.com
ZV810 Motion Sensor PIR Light Switch

Please read the instructions before using the product and retain for future use.

To avoid nuisance triggering:
- Your sensor switch may be activated by large animals, lights, reflective surfaces, heat sources or movements of objects.
- The ZV810 can be installed at various heights from 0.8M to 1.2M to detect a zone up to 8M in range over a 180º angle. (See Fig. 1)

A. Installation procedure
1. Ensure the power supply is switched off.
2. Open the front cover, to reveal the fixingscrews (See Fig.3)
3. Loosen the screws and carefully pull the inner frame out from the wall box.
4. Carefully slide the mounting plate into the wall box and fix it to the wall box with screws supplied.
5. Re-tighten the screws.
6. Adjust the "TIME", "METER" and "LUX " knobs for "Walk Test " over the desired detection zone. (See Fig. 5)
7. Screw the inner frame in place and replace the lifting-front cover.

C. Wiring Diagrams
1. To replace a one way switch. (See Fig. 5)
2. To replace a 2 way switch in a two way circuit. (See Fig. 6)
3. To replace both 2 way switches in a two way circuit. (See Fig. 8)

- Wire dimension: Min. 0.5mm\(^2\), Max. 2.0mm\(^2\) (See Fig. 5)

Fig. 5

Walk Test and Adjustment
A. Walk Test
1. After the main part of the motion sensor switch has been fitted to the wall box turn the power on to warm up sensor for at least 1 minute to stimulate the sensor for normal operation before carrying out the "Walk Test".
2. Switch the sensor switch to the enable position for "AUTO" function. (See Fig. 11)
3. Start from outside the pattern and walk across until the lights come on. (See Fig. 9)
4. Adjust the sensor "METER" knob as necessary to improve coverage until it meets users preference. (See Fig. 11)

B. Installation
1. Choose a location
   - For indoor use only ie: hallways, dining-rooms, basement, utility rooms and garages, etc. To replace existing one way or two way light switches.
   - Since the ZV810 is sensitive to temperature changes. Avoid mounting directly above heat sources or exposed to direct sunlight.
   - Avoid mounting the sensor switch where it can come into contact with water or rain.
   - For best results mount the sensor switch to detect objects moving across it. (See Fig.2)

Coverage
The ZV810 can be installed at various heights from 0.8M to 1.2M to detect a zone up to 8M in range over a 180º angle. (See Fig. 1)

6. Adjust the "TIME", "METER" and "LUX " knobs for "Walk Test " over the desired detection zone. (See Fig. 6)
7. Screw the inner frame in place and replace the lifting-front cover.

Fig. 8

Installation and Wiring
This product must be wired in accordance with the IEE Wiring Regulations. If you have any doubt about your ability to install this product consult a competent electrician. Switch off the power supply before installation and wiring.

A. Select a location
- For indoor use only: hallways, dining-rooms, basement, utility rooms and garages, etc. To replace existing one way or two way light switches.
- Since the ZV810 is sensitive to temperature changes. Avoid mounting directly above heat sources or exposed to direct sunlight.
- Avoid mounting the sensor switch where it can come into contact with water or rain.
- For best results mount the sensor switch to detect objects moving across it. (See Fig.2)

Fig. 2

Start
Finish

3 Year Guarantee
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HELPLINE 020-8450-0515

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020-8452-1112 or email csc@timeguard.com

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Victory Park, 400 Edgware Road, London NW2 6ND
020-8452-1112 or email csc@timeguard.com
INSTALLATION & OPERATING INSTRUCTIONS

MOTION SENSOR PIR LIGHT SWITCH
Cat No. ZV810

Specifications
Supply Voltage: 230VAC 50Hz.
Loads: 40-500W for incandescent light. 40-150W for low voltage light. 18-150W for fluorescent light with electronic ballast. 15-150W for electronic PL lamp (Philips, Osram only).

Operation
A. Functions of Slide Manual Switch
After fitting the unit use the side switch to set the "OFF", "AUTO" or "ON" functions. (See Fig. 12)
1. OFF - lights "OFF" manually.
2. AUTO - lights "ON" or "OFF" automatically according to the "METER", "TIME" and "LUX", control settings.
3. ON - lights "ON" manually.

B. Adjustment in Different Wiring Conditions
1. When one or two sensor switches are used in a circuit. Sensor switch A should be set to the "AUTO" position. 2. When the sensor switch is in a two way circuit (See Fig. 7), the remote switch acts as a momentary switch. It can only trigger the sensor switch to turn the lights on when the slide switch is set to the "AUTO" position. Thus, the two way circuit will be controlled by the sensor switch. 3. When two sensor switches are used in a two way circuit (See Fig. 8), the operations will be as follows:

<table>
<thead>
<tr>
<th>Sensor Switch</th>
<th>Slide Switch</th>
<th>Light</th>
<th>Controlled Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>OFF</td>
<td>ON</td>
<td>ON</td>
<td>AUTO</td>
</tr>
<tr>
<td>ON</td>
<td>OFF</td>
<td>ON</td>
<td>AUTO</td>
</tr>
<tr>
<td>OFF</td>
<td>OFF</td>
<td>OFF</td>
<td>AUTO</td>
</tr>
<tr>
<td>AUTO</td>
<td>AUTO</td>
<td>AUTO</td>
<td>AUTO</td>
</tr>
</tbody>
</table>

Troubleshooting
Each sensor switch has undergone rigorous testing and quality control; malfunctions are mostly due to incorrect installation or exposure to heat sources.

Lights Do Not Turn On
1. Check that the "TIME" control is set to minimum. 2. Check that the slide switch is in the "ON" position. 3. Keep out of the detection area to avoid activating.

Lights Come On And Off Quickly
1. Heat from lights will cause unstable sensor performance. 2. Make sure lights are not reflecting back into the sensor. Check for blinds or reflective surfaces in the protection pattern. If so, aim sensor and lights in a different direction. 3. Note that the sensor is more sensitive in winter since infrared energy is easier for the sensor to detect in cold temperature. Turn "METER" knob closer to "-".

Lights Do Not Turn Off
1. Check that the "TIME" control is set to maximum. 2. Check that the slide switch is in the "ON" position. 3. Keep out of the detection area to avoid activating.

5. To reduce the detection area, user can put on the silver label which is supplied with this instruction manual to cover the lens. (See Fig. 10)

B. Adjustment of the "TIME", "LUX" and "METER" knobs.
1. Adjust the "TIME" control to set the ON time from about 6 seconds to the maximum 12 minutes.
2. Adjust the "LUX" to set the light level required for operation to start at the required light level.
3. Adjust the "METER" to set the detection distance up to about 8 meters (20ºC).

5. Silver Label
To reduce the detection area, the user can put on the silver label which is supplied with this instruction manual to cover the lens. (See Fig. 10)

Operation
A. Functions of Slide Manual Switch
After fitting the unit use the side switch to set the "OFF", "AUTO" or "ON" functions. (See Fig. 12)
1. OFF - lights "OFF" manually.
2. AUTO - lights "ON" or "OFF" automatically according to the "METER", "TIME" and "LUX", control settings.
3. ON - lights "ON" manually.

B. Adjustment in Different Wiring Conditions
1. When one or two sensor switches are used in a circuit. Sensor switch A should be set to the "AUTO" position.
2. When the sensor switch is in a two way circuit (See Fig. 7), the remote switch acts as a momentary switch. It can only trigger the sensor switch to turn the lights on when the slide switch is set to the "AUTO" position. Thus, the two way circuit will be controlled by the sensor switch.
3. When two sensor switches are used in a two way circuit (See Fig. 8), the operations will be as follows:

Troubleshooting
Each sensor switch has undergone rigorous testing and quality control; malfunctions are mostly due to incorrect installation or exposure to heat sources.

Lights Do Not Turn On
1. Turn off power for at least 5 seconds, then on again.
2. Check that lights and fittings work properly. Compare setting to the wiring diagram. Check that power is on.
3. Check that the slide switch is not in the "OFF" position.
4. Check that the slide switch is not in the "ON" position.

Lights Come On And Off Quickly
1. Heat from lights will cause unstable sensor performance.
2. Make sure lights are not reflecting back into the sensor. Check for blinds or reflective surfaces in the protection pattern. If so, aim sensor and lights in a different direction.
3. Note that the sensor is more sensitive in winter since infrared energy is easier for the sensor to detect in cold temperature. Turn "METER" knob closer to "-".

Lights Do Not Turn Off
1. Check that the "TIME" control is set to minimum.
2. Check that the slide switch is in the "ON" position.
3. Keep out of the detection area to avoid activating.

5. Make sure the unit is not mounted on an unstable object which is warm. Make sure the unit is firmly mounted.
6. Make sure the unit is not aimed at something that would cause temperature changes such as at conditioners or heating vents.
7. Turn power off for more than 5 seconds, then turn on again to resume automatic operation.
8. Make sure line voltage is stable.
9. Note: Keep the lens area clean and free of obstructions. Do not attempt to open or repair the unit.
10. Do not use with dimmer or any other switch containing electronic circuit.

To use with dimmer or any other switch containing electronic circuit.

This is the silver label which can be used to cover the lens as (Fig. 10) shown.

Specifications
Supply Voltage: 230VAC 50Hz.
Loads: 40-500W for incandescent light. 40-150W for low voltage light. 18-150W for fluorescent light with electronic ballast. 15-150W for electronic PL lamp (Philips, Osram only).
Light On Time: Adjustable from about 6 seconds to the maximum 12 minutes.
Lcd: Fully adjustable light level sensitivity for sensor to be activated at the desired brightness in darkness.
Detector Range: 1.5 to 3 m (5 to 10 ft).
Eye Protection: No harmful infrared.
Manual Switch: OFF - AUTO - ON
Operating Temperature: -10ºC ~ +45 ºC
Environmental Protection: IP30.
## INSTALLATION & OPERATING INSTRUCTIONS

### Motion Sensor PIR Light Switch

**Cat No. ZV810**

### Specifications

- **Supply Voltage:** 230VAC 50Hz.
- **Permissible Loads:**
  - 40-500W for incandescent light.
  - 40-150W for low voltage halogen light.
  - 18-150W for fluorescent light with electronic ballast.
  - 15-150W for electronic PL lamp (Philips, Osram only).
- **Light ON Time:** Adjustable from about 6 seconds to 12 minutes.
- **Lux:** Fully adjustable light level sensitivity for sensor to be activated at the desired brightness in daytime.
- **Detection Range:** Up to 8 meters (20ºC).
- **Detection Angle:** Up to 180º (20ºC).
- **Fuse Protection:** 3.15A, 5 x 20mm changeable.
- **Operating Temperature:** -10ºC ~ +45 ºC.
- **Environmental Protection:** IP30.

### Troubleshooting

- **Lights Do Not Turn On**
  1. Turn off power for at least 5 seconds, then on again.
  2. Check that lights and fittings work properly.
  3. Compare wiring to the wiring diagram. Check that power is on.
  4. Check that the slide switch is not in the "OFF" position.
  5. Keep out of the detection area to avoid activating.

- **Lights Come On And Off Quickly**
  1. Heat from lights will cause unstable sensor performance.
  2. Make sure lights are not reflecting back into the sensor.
  3. Adjust the "METER" knob closer to "-".
  4. Make sure the unit is not mounted on an unstable object which is warm.
  5. Make sure line voltage is stable.

### Notes:

- Keep the lens area clean and free of obstructions. Do not attempt to open or repair the unit.
- Do not use with fluorescent and PL lamps that have conventional ballast (iron ballast). This will damage the starter and cause the ZV810 to retrigger.

### Operation

**A. Functions of Slide Manual Switch**

- After fitting the unit use the slide switch to set the "ON", "AUTO" or "OFF" functions.
- Set the "ON" lights "ON" manually.
- Set the "AUTO" lights "ON" or "OFF" automatically according to the "METER", "TIME" and "LUX", control settings.

**B. Operations in Different Wiring Conditions**

1. When one or two sensor switches are used in a circuit, the sensor switch should be set to the "AUTO" position.
2. When the sensor switch is in a two-way circuit, the remote switch acts as a momentary switch. It can only trigger the sensor switch to turn the lights on or off depending on the slide switch.

**Troubleshooting**

- **Lights Do Not Turn On**
  1. Turn off power for at least 5 seconds, then on again.
  2. Check that lights and fittings work properly.
  3. Compare wiring to the wiring diagram. Check that power is on.
  4. Check that the slide switch is not in the "OFF" position.
  5. Keep out of the detection area to avoid activating.

- **Lights Come On And Off Quickly**
  1. Heat from lights will cause unstable sensor performance.
  2. Make sure lights are not reflecting back into the sensor.
  3. Adjust the "METER" knob closer to "-".
  4. Make sure the unit is not mounted on an unstable object which is warm.
  5. Make sure line voltage is stable.

**Note:**

- Keep the lens area clean and free of obstructions. Do not attempt to open or repair the unit.
- Do not use with fluorescent and PL lamps that have conventional ballast (iron ballast). This will damage the starter and cause the ZV810 to retrigger.

This is the silver label which can be used to cover the lens as (Fig.10) shown.
INSTALLATION & OPERATING INSTRUCTIONS

MOTION SENSOR PIR LIGHT SWITCH
Cat No. ZV810

Specifications
Supply Voltage: 230VAC 50Hz.

Permissible Loads:
- 40-500W for incandescent light.
- 40-150W for low voltage halogen light.
- 18-150W for fluorescent light with electronic ballast.
- 15-150W for electronic PL lamp (Philips, Osram only).

Light ON Time: Adjustable from about 6 seconds to 12 minutes.

Lux: Fully adjustable light level sensitivity for sensor to be activated at the desired brightness in daytime.

Detection Range: Adjustable up to 8 meters (20ºC).

Detection Angle: Up to 180º (20ºC).

Fuse Protection: 3.15A, 5 x 20mm changeable

Operating Temperature: -10ºC ~ +45 ºC

Environmental Protection: IP30.

Troubleshooting

Lights Do Not Turn On
1. Check that the Time control knob is set to minimum.
2. Check that the slide switch is in the “ON” position.
3. Keep out of the detection area to avoid activating.

Lights Come On And Off Quickly
1. Heat from lights will cause unsteady sensor performance.
2. Make sure lights are not reflecting back into the sensor. Check for white or reflective surfaces in the protection pattern. If so aim sensor and lights in a different direction.
3. Note that the sensor is more sensitive in winter since infrared energy is easier for the sensor to detect in cold temperatures. Turn “METER” knob closer to “-”.
4. Make sure the unit is not mounted on an unstable object which is warm. Make sure the unit is firmly mounted.
5. Make sure the unit is not aimed at something that would cause temperature changes such as air conditioners or heating vents.
6. Turn power off for more than 5 seconds, then turn on again to resume automatic operation.
7. Make sure line voltage is stable.

Note:
Keep the lens area clean and free of obstructions. Do not attempt to open or repair the unit.

Do not use with dimmer or any other switch containing electronic circuit.

This is the silver label which can be used to cover the lens as (Fig. 30) shown.

Keep the lens area clean and free of obstructions. Do not attempt to open or repair the unit.

Do not use with dimmer or any other switch containing electronic circuit.

A Sensor Switch
Slide Switch
OFF ON AUTO

B Sensor Switch
Slide Switch
OFF ON AUTO

Light Control
ON ON AUTO

Note: Do not use with fluorescent and PL lamps that have conventional ballast (iron ballast). This will damage the ZV810 and interfere.

Silver Label
To reduce the detection area, user can put on the silver label which is supplied with this instruction manual to cover the lens. (See Fig. 11)

Adjustment of “LUX”, “TIME”, “METER” knobs.

1. Adjust the “LUX” control to set the ON time from about 6 seconds to the required light level.
2. Adjust the “TIME” control to set the detection distance up to about 8 meters.

Adjustment of “LUX”, “TIME”, “METER” knobs.

1. Adjust the “TIME” control to set the ON time from about 6 seconds to the maximum 12 minutes. This period starts after body movement within the detection area is sensed.
2. Adjust the “LUX” control to set the detection distance up to about 8 meters.

Troubleshooting

Lights Do Not Turn On

1. Turn off power for at least 5 seconds, then on again.
2. Check that lights and fittings work properly. Compare sensing to the sensing diagram. Check that power is on.
3. Check that the slide switch is not in the “OFF” position.
4. Check the fuse.

Lights Come On And Off Quickly

1. Heat from lights will cause unsteady sensor performance.
2. Make sure lights are not reflecting back into the sensor. Check for white or reflective surfaces in the protection pattern. If so aim sensor and lights in a different direction.
3. Note that the sensor is more sensitive in winter since infrared energy is easier for the sensor to detect in cold temperatures. Turn “METER” knob closer to “-”.
4. Make sure the unit is not mounted on an unstable object which is warm. Make sure the unit is firmly mounted.
5. Make sure the unit is not aimed at something that would cause temperature changes such as air conditioners or heating vents.
6. Turn power off for more than 5 seconds, then turn on again to resume automatic operation.
7. Make sure line voltage is stable.

Note:
Keep the lens area clean and free of obstructions. Do not attempt to open or repair the unit.

Do not use with dimmer or any other switch containing electronic circuit.

A Sensor B Sensor Switch Light Control
Slide Switch Slide Switch Status
OFF OFF ON
OFF ON OFF
ON ON AUTO
ON OFF AUTO
OFF OFF AUTO

Specs
Supply Voltage: 230VAC 50Hz.

Permissible Loads:
- 40-500W for incandescent light.
- 40-150W for low voltage halogen light.
- 18-150W for fluorescent light with electronic ballast.
- 15-150W for electronic PL lamp (Philips, Osram only).

Light ON Time:
- Adjustable from about 6 seconds to the maximum 12 minutes.

LUX:
- Fully adjustable light level sensitivity for sensor to be activated at the desired brightness in daytime.

Adjustable up to 8 meters (20ºC).

Adjustable up to 180º (20ºC).

Adjustable from 0 to 10ºC.

Adjustable from 0 to 40ºC.

Adjustable from 0 to 60ºC.

Environmental Protection: IP30.

A Sensor B Sensor Switch Light Control
Slide Switch Slide Switch Status
OFF OFF ON
OFF ON OFF
ON ON AUTO
ON OFF AUTO
OFF OFF AUTO

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...
B. Adjustment of "TIME", "LUX" and "METER" knobs.

1. Adjust the "TIME" control to set the ON time from about 6 seconds to the maximum 12 minutes.
2. Adjust the "LUX" to set the light level required for operation to start at the required light level.
3. Adjust the "METER" to set the detection distance up to about 8 meters.

Troubleshooting

1. Check that the ON button is set in "ON" position.
2. Check that the METER control is set to minimum.
3. Check that the sensor is not damaged.
4. Check that the environment is not too hot.
5. Check that the sensor is not too cold.
6. Check that the sensor is not too bright.
7. Check that the sensor is not too dim.
8. Check that the sensor is not too dark.

4. Make sure the unit is not mounted on an unstable object which is warm. Make sure the unit is firmly mounted.
5. Make sure the unit is not aimed at something that would cause temperature changes such as air conditioners or heating vents.
6. Turn power off for more than 5 seconds, then turn on again to resume automatic operation.
7. Make sure line voltage is stable.

Note:
Keep the lens area clean and free of obstructions. Do not attempt to open or repair the unit.
Do not use with dimmer or any other switch containing electronic circuit.

Specifications

Supply Voltage: 230VAC 50Hz.
Load: 40W for low voltage.
18W for electronic ballast.
15W for on-off switch.
Light ON Time: 6-120 seconds.
Luminous Flux: 150 lumens.
Operating Temperature: 0ºC to +40 ºC.
Environmental Protection: IP30.
**Operation**

A. Functions of Slide Manual Switch
   - After fitting the unit use the slide switch to set the ON, AUTO, or OFF positions. See Fig. 11.
   - ON: lights ON manually.
   - AUTO: lights ON and OFF automatically.
   - OFF: lights OFF manually.

B. Adjustment in Different Wiring Conditions
   - 1. When one or two sensor switches are used in a circuit, Sensor switch A should be set to the "AUTO" position.
   - 2. When the sensor switch is in a two way circuit (See Fig. 7), the remote switch acts as a momentary switch. It can only trigger the sensor switch to turn the lights on when the slide switch is set to the "AUTO" position. Then, the two-way circuit will be controlled by the sensor switch.
   - 3. When two sensor switches are used in a two-way circuit (See Fig. 8), the operation will be as follows:

**Troubleshooting**

Each sensor switch has undergone rigorous testing and quality control; malfunctions are mostly due to incorrect installation or exposure to heat sources.

- **Lights Do Not Turn On**
  - 1. Check that the Time control knob is set to minimum.
  - 2. Check that the slide switch is in the "ON" position.
  - 3. Keep out of the detection area to avoid activation.

- **Lights Come On And Off Quickly**
  - 1. Heat from lights will cause unsteady sensor performance.
  - 2. Make sure lights are not reflecting back into the sensor.
  - 3. Check that the glass panel is not dirty or stained. (See Fig. 10).
  - 4. Make sure the unit is not mounted on an unstable object which is warm. Make sure the unit is firmly mounted.
  - 5. Make sure the unit is not aimed at something that would cause temperature changes such as air conditioners or heating vents.
  - 6. Turn power off for more than 5 seconds, then turn on to resume automatic operation.

- **Lights Do Not Turn Off**
  - 1. Check that the Time control knob is set to minimum.
  - 2. Check that the slide switch is in the "ON" position.

**Specifications**

- **Supply Voltage:** 230VAC 50Hz.
- **Luminous Flux:** 1000 lumens.
- **Lighting Level:** 50 lumens.
- **Light ON Time:** Adjustable from about 6 seconds to the maximum 12 minutes.
- **Light OFF Time:** Adjustable from about 5 seconds to 12 minutes.

**Note:**

- Keep the lens area clean and free of obstructions. Do not attempt to open or repair the unit.
- Do not use with dimmer or any other switch containing electronic circuit.

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**Detection Range**

- **Normal Range:** 8 meters (20ºC).
- **Detection Angle:** Up to 180º (20ºC).
- **IP Protection:** IP30.

---

**Silver Label**

- To reduce the detection area, user can put on the silver label which is supplied with this instruction manual to cover the lens. (See Fig. 10).

**Fig. 10**

Silver Label

---

**Troubleshooting**

- **Lights Do Not Turn On**
  - 1. Turn off power for at least 5 seconds, then on again.
  - 2. Check that the sensor switch is not set to the "OFF" position.
  - 3. Check the fuse.

- **Lights Come On And Off Quickly**
  - 1. Heat from lights will cause unsteady sensor performance.
  - 2. Make sure lights are not reflecting back into the sensor.
  - 3. Check that the glass panel is not dirty or stained. (See Fig. 10).

- **Lights Do Not Turn Off**
  - 1. Check that the Time control knob is set to minimum.
  - 2. Check that the slide switch is in the "ON" position.

**Note:**

- Do not use with fluorescent and PL lamps that have conventional ballast (iron ballast). This will damage the starter and cause the ZV810 to retrigger.

**Troubleshooting**

Each sensor switch has undergone rigorous testing and quality control; malfunctions are mostly due to incorrect installation or exposure to heat sources.

- **Lights Do Not Turn On**
  - 1. Turn off power for at least 5 seconds, then on again.
  - 2. Check that the sensor switch is not set to the "OFF" position.
  - 3. Check the fuse.

- **Lights Come On And Off Quickly**
  - 1. Heat from lights will cause unsteady sensor performance.
  - 2. Make sure lights are not reflecting back into the sensor.
  - 3. Check that the glass panel is not dirty or stained. (See Fig. 10).

- **Lights Do Not Turn Off**
  - 1. Check that the Time control knob is set to minimum.
  - 2. Check that the slide switch is in the "ON" position.

**Troubleshooting**

Each sensor switch has undergone rigorous testing and quality control; malfunctions are mostly due to incorrect installation or exposure to heat sources.

- **Lights Do Not Turn On**
  - 1. Turn off power for at least 5 seconds, then on again.
  - 2. Check that the sensor switch is not set to the "OFF" position.
  - 3. Check the fuse.

- **Lights Come On And Off Quickly**
  - 1. Heat from lights will cause unsteady sensor performance.
  - 2. Make sure lights are not reflecting back into the sensor.
  - 3. Check that the glass panel is not dirty or stained. (See Fig. 10).

- **Lights Do Not Turn Off**
  - 1. Check that the Time control knob is set to minimum.
  - 2. Check that the slide switch is in the "ON" position.

**Note:**

- Do not use with fluorescent and PL lamps that have conventional ballast (iron ballast). This will damage the starter and cause the ZV810 to retrigger.
### INSTALLATION & OPERATING INSTRUCTIONS

#### MOTION SENSOR PIR LIGHT SWITCH

**Cat No. ZV810**

#### Specifications

- **Supply Voltage:**
  - 230VAC 50Hz.

- **Permissible Loads:**
  - 40-500W for incandescent light.
  - 40-150W for low voltage halogen light.
  - 18-150W for fluorescent light with electronic ballast.
  - 15-150W for electronic PL lamp (Philips, Osram only).

- **Light ON Time:** Adjustable from about 6 seconds to 12 minutes.

- **Lux:** Fully adjustable light level sensitivity for sensor to be activated at the desired brightness in daytime.

- **Detection Range:** Adjustable up to 8 meters (20ºC).

- **Detection Angle:** Up to 180º (20ºC).

- **Fuse Protection:** 3.15A, 5 x 20mm changeable.

- **Operating Temperature:** -10ºC ~ +45 ºC.

- **Environmental Protection:** IP30.

---

#### Operation

**A. Functions of Slide Manual Switch**

After fitting the unit use the side switch to set the "ON" / "AUTO" or "OFF" functions. (See Fig. 11)

- **ON** - lights "ON" manually.
- **OFF** - lights "OFF" manually.
- **AUTO** - lights "ON" or "OFF" automatically according to the "METER", "TIME" and "LUX", control settings.

**B. Operations in Different Wiring Conditions**

1. When one or two sensor switches are used in a circuit. Sensor switch A should be set to the "AUTO" position.
2. When the sensor switch is in a two way circuit (See Fig. 7), the remote switch acts as a momentary switch. It can only trigger the sensor switch to turn the lights on or off in the "AUTO" position. The two-way switch can be controlled by the sensor switch.
3. When two sensor switches are used in a two way circuit (See Fig. 8), the operation will be as follows:
   - Check that the Time control knob is set to minimum.
   - Check that the slide switch is in the "ON" position.
   - Keep out of the detection area to avoid activating.

---

#### Troubleshooting

**Lights Do Not Turn On**

1. Check that lights and fittings work properly.
2. Check wiring to the wiring diagram. Check that power is on.
3. Check that the slide switch is not in the "OFF" position.
4. Check that the sensor switch is not to be activated in cold temperature. Turn "METER" knob closer to " - ".

**Lights Come On And Off Quickly**

1. Heat from lights will cause unsteady sensor performance.
2. Make sure lights are not reflecting back into the sensor. Connect lights that have conventional ballast (iron ballast) which can be used to cover the lens as (Fig. 10) shown.
3. Turn "METER" knob closer to " - ".

**Lights Do Not Turn Off**

1. Check that the Time control knob is set to minimum.
2. Check that the slide switch is in the "ON" position.
3. Keep out of the detection area to avoid activating.

---

#### Problems and Solutions

1. Make sure the unit is not mounted on an object which is warm. Make sure the unit is firmly mounted.
2. Make sure the sensor is not aimed at something that would cause temperature changes such as air conditioners or heating vents.
3. Turn power off for more than 5 seconds, then turn on to ensure automatic operation.
4. Make sure line voltage is stable.

---

#### Note:

- Keep the lens area clean and free of obstructions. Do not attempt to open or repair the unit.
- Do not use with fluorescent and PL lamps that have conventional ballast (iron ballast).
- This will enhance the starter and cause the ZV810 to interrige.

---

#### Table: Sensor Positioning

<table>
<thead>
<tr>
<th>Sensor</th>
<th>Slide Switch</th>
<th>Slide Switch</th>
<th>Light Control Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>A Sensor</td>
<td>Slide Switch</td>
<td>Slide Switch</td>
<td>Status</td>
</tr>
<tr>
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<tr>
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<td>AUTO</td>
<td>OFF</td>
<td>AUTO</td>
</tr>
</tbody>
</table>

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#### Fig. 10: Silver Label

To reduce the detection area, user can put on the silver label which is supplied with this instruction manual to cover the lens. (See Fig. 10)

7. Adjust the "LUX" to set the light level required for operation. (See Fig. 11)

---

#### Fig. 11: Slide Switch Control

After fitting the unit use the side switch to set the "ON" / "AUTO" or "OFF" functions. (See Fig. 11)

- **ON** - lights "ON" manually.
- **OFF** - lights "OFF" manually.
- **AUTO** - lights "ON" or "OFF" automatically according to the "METER", "TIME" and "LUX", control settings.

---

#### Fig. 12: Detection Angle

- **LUX:** Fully adjustable light level sensitivity for sensor to be activated at the desired brightness in daytime.

---

#### Operation

**A. Functions of Slide Manual Switch**

After fitting the unit use the side switch to set the "ON" / "AUTO" or "OFF" functions. (See Fig. 11)

- **ON** - lights "ON" manually.
- **OFF** - lights "OFF" manually.
- **AUTO** - lights "ON" or "OFF" automatically according to the "METER", "TIME" and "LUX", control settings.

**B. Operations in Different Wiring Conditions**

1. When one or two sensor switches are used in a circuit. Sensor switch A should be set to the "AUTO" position.
2. When the sensor switch is in a two way circuit (See Fig. 7), the remote switch acts as a momentary switch. It can only trigger the sensor switch to turn the lights on or off in the "AUTO" position. The two-way switch can be controlled by the sensor switch.
3. When two sensor switches are used in a two way circuit (See Fig. 8), the operation will be as follows:
   - Check that the Time control knob is set to minimum.
   - Check that the slide switch is in the "ON" position.
   - Keep out of the detection area to avoid activating.

---

#### Troubleshooting

**Lights Do Not Turn On**

1. Turn off power for at least 5 seconds, then on again.
2. Check that lights and fittings work properly. Compare setting to the wiring diagram. Check that power is on.
3. Check that the slide switch is not in the "OFF" position.
4. Check that the sensor switch is not to be activated in cold temperature. Turn "METER" knob closer to " - ".

**Lights Come On And Off Quickly**

1. Heat from lights will cause unsteady sensor performance.
2. Make sure lights are not reflecting back into the sensor. Connect lights that have conventional ballast (iron ballast) which can be used to cover the lens as (Fig. 10) shown.
3. Turn power off for more than 5 seconds, then turn on to ensure automatic operation.
4. Make sure line voltage is stable.

---

#### Note:

- Keep the lens area clean and free of obstructions. Do not attempt to open or repair the unit.
- Do not use with dimmer or any other switch containing electronic circuit.
ZV810 Motion Sensor PIR Light Switch

Please read the instructions before using the product and retain for future use.

To avoid nuisance triggering

Your sensor switch may be activated by large animals, lights, reflective surfaces, heat sources or movements of objects. The following guidelines will help you to avoid nuisance triggering:

- Do not aim the sensor towards any light sources.
- Avoid mounting the sensor near heat sources, such as heating vents, air conditioners, dryer vents or lights.
- Avoid directing the sensor toward areas whose surfaces are highly reflective or are subject to rapid temperature change, such as pools.

The ZV810 can be installed at various heights from 0.8M to 1.2M to detect a zone up to 8M in range over a 180º angle. (See Fig. 1)

Installation and Wiring

This product must be wired in accordance with the IEE Wiring Regulations. If you have any doubts about your ability to install this product consult a competent electrician.

A. Select a location

- For indoor use only ie: hallways, dining-rooms, basement, utility rooms and garages, etc. to replace existing one way or two way light switches.
- Since the ZV810 is sensitive to temperature changes. Avoid mounting directly above heat sources or exposed to direct sunlight.
- Avoid mounting the motion sensor switch where it can come into contact with water or rain.
- For best results mount the sensor switch to detect objects moving across it. (See Fig. 2)

B. Installation procedure

1. Ensure the power supply is switched off.
2. Open the front cover, to reveal the fixingscrews (See Fig.3)
3. Loosen the fixing screws and remove the lifting-front cover.
4. Adjust the “TIME”, “METER” and “LUX” knobs for “Walk Test” over the desired detection zone. (See Fig. 9)
5. Screw the inner frame in place and replace the lifting-front cover.

C. Wiring Diagrams

1. To replace a one way switch. (See Fig.5)

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1. To replace a one way switch. (See Fig.5)
2. To replace a 2 way switch in a two way circuit. (such as stairs). (See Fig. 6)
3. To replace both 2 way switches in a two way circuit. (See Fig. 8)

- Wire dimension:
  - Min. 0.5mm
  - Max. 2.0mm

- To replace a 2 way switch please refer to Fig. 7 for wire connection and add a link to the remote switch.
- When the Remote Switch is actuated, lights will remain on for the preset period.
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- When the Remote Switch is actuated, lights will remain on for the preset period.
- Adjust the sensor “METER” knob as necessary to improve coverage until it meets users preference. (See Fig.11)

Fig. 3

Fig. 4

Fig. 5

Fig. 6

Fig. 7

Fig. 8

Fig. 9

Walk Test and Adjustment

A. Walk Test

1. After the main part of the motion sensor switch has been fitted to the wall box turn the power on to warm up sensor for at least 3 minutes to stabilise the sensor for normal operation before carrying out the “Walk Test”.
2. Switch the sensor switch to the enable position for “AUTO” function. (See Fig. 11)
3. Start from outside the pattern and walk across until the lights come on. (See Fig. 9)
4. Adjust the sensor “METER” knob as necessary to improve coverage until it meets users preference. (See Fig.11)

B. Installation procedure

1. Ensure the power supply is switched off.
2. Open the front cover, to reveal the fixingscrews (See Fig.3)
3. Loosen the fixing screws and remove the lifting-front cover.
4. Adjust the “TIME”, “METER” and “LUX” knobs for “Walk Test” over the desired detection zone. (See Fig. 6)
5. Screw the inner frame in place and replace the lifting-front cover.

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Fig. 3

Fig. 4

Fig. 5

Fig. 6

Fig. 7

Fig. 8

Fig. 9

3 Year Guarantee

In the unlikely event of this product becoming faulty due to defective material or manufacture within 3 years of the date of purchase, please return it to your supplier in the first year with proof of purchase and it will be replaced free of charge. For the second and third years or any difficulty in the first year telephone the helpline on 020-8450-0515.

HELPLINE
020-8450-0515

For a product brochure please contact:
Timeguard Ltd.
Victory Park, 400 Edgware Road, London NW2 6ND
020-8452-1112
or email csc@timeguard.com

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