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HX-40 2 PIRs standard model
HX-40AM HX-40 with anti-masking
HX-40DAM HX-40AM with micro-wave

• 3.0 m high mount detection area (12.0 m)
• Unique pyro element
• Intelligent AND logic
• Dual signal processing logic
• Vegetation sway analysis logic
• Ideal detection area setting
• Digital anti-masking (AM/DAM model only)
• Microwave range selector (DAM model only)

OPTEX

High Mount Outdoor Detector
HX-40/40AM/40DAM

High Mount Outdoor Detector

NO.59-1501-3
INSTALLATION INSTRUCTIONS

- 1 -
## 1 INSTALLATION PRECAUTIONS

### 1-1 BEFORE INSTALLATION

<table>
<thead>
<tr>
<th>Warning</th>
<th>Caution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Failure to follow the instructions provided with this indication and improper handling may cause death or serious injury.</td>
<td>Failure to follow the instructions provided with this indication and improper handling may cause injury and/or property damage.</td>
</tr>
</tbody>
</table>

The check mark indicates recommendation. The nix sign indicates prohibition.

<table>
<thead>
<tr>
<th>Warning</th>
<th>Warning</th>
<th>Caution</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="symbol" alt="No repair or modification symbol" /></td>
<td><img src="symbol" alt="No water symbol" /></td>
<td><img src="symbol" alt="Secure mounting symbol" /></td>
</tr>
</tbody>
</table>

- **Do not repair or modify the product**
- **Keep product away from water**
- **Mount the unit securely**

### Mounting height

<table>
<thead>
<tr>
<th><img src="symbol" alt="Mounting height symbol" /></th>
<th><img src="symbol" alt="Parallel symbol" /></th>
<th><img src="symbol" alt="Tilt symbol" /></th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="symbol" alt="2.5 m – 3.0 m (8'2&quot; – 9'10&quot;)" /></td>
<td><img src="symbol" alt="Keep detector parallel to the ground" /></td>
<td><img src="symbol" alt="Keep detector parallel to the ground" /></td>
</tr>
</tbody>
</table>

**Consider the direction a person is approaching from, as well as the detection area.**

**Install the detector in a place where it is free from false alarm factors.** For example:

- **Sunlight and reflection**
- **Heat source**
- **Objects moving in the wind**
-Precautions for installing two or more sensors

Do not install two or more HX-40DAM's units side-by-side or face-to-face. Instead, install them back-to-back. If mounting on the same wall, be sure they are at least 1.0 m (3’3”) apart from each other.

1.0 m (3’3”) or more  Less than 1.0 m (3’3”)

1-2 PARTS IDENTIFICATION

<table>
<thead>
<tr>
<th>Screw kit</th>
<th>For joint</th>
<th>For wall mounting</th>
<th>For hood</th>
</tr>
</thead>
<tbody>
<tr>
<td>Screw (4 × 20 mm)</td>
<td>Screw (4 × 20 mm)</td>
<td>Screw (3 × 10 mm)</td>
<td></td>
</tr>
</tbody>
</table>

*Lock screw attached on bracket base
1-3 KNOCKOUTS

Main unit

Bracket

For bracket
Up-Down lock screw

For wall fastening/bracket fastening
(Installation pitch 83.5 mm (3.29"))

Wiring knockout

Wiring sponge pad

Wiring Hole

(Off-the-shelf) magnet switch
Installation position

For wall fastening
For switch box fastening

Adjustment screw

Do not touch
Up-Down lock screw

For main unit fastening

Wiring Hole

For wall fastening
1-4 DETECTION AREA

Side view
(Mounting height: 3.0 m (9'10"))

Top view
(Mounting height: 2.5 m (8'2"))

• Vertical angle: 1 click (2.5°) upward
  (Refer to “caution” in 2-2).

1-5 DETERMINATION OF PIR DETECTION LENGTH

To adjust the detection length, apply the masking seals to the back of the lens according to the required detection length. Three types of masking seals are provided. Combine them according to the detection length required.

Apply masking seal directly on the back side of the lens.

For microwave detection setting please refer to "4 SETTING".
2 INSTALLATION

Use the bracket for normal installation. The unit may be mounted directly on the wall, without the bracket, only if the following three conditions are not;
• The mounting height 3.0 m (9’10”).
• Horizontal direction adjustment is unnecessary.
• The ground is level.

2-1 MOUNTING WITH BRACKET

Using the bracket makes it possible to adjust the unit horizontally by ±90°.
In cases where the ground is uneven and/or not parallel with the base of the unit, it is possible to adjust the unit vertically by ±20°.

1. Remove the Up-Down lock screw.

2. Push the shaft cover clip straightforwardly with your thumb. In case the clip is stuck, use a suitable tool, e.g. back side of a screwdriver.

3. Loosen the adjustment screw two turns.

4. Tilt the bracket about 45° and pass through the wire.

Caution>>
Do not change the detection length with bracket.
Use the masking seal to adjust the detection length.

Caution>>
Do not loosen the screw too much.
It may disassemble.
5 Determine the horizontal direction (left or right) of the detector before installing the bracket on the wall.

6 Open the wiring knockout.

7 Open the Up-Down lock screw knockout for connecting the bracket.

8 Tighten screws 1 and 2, adjust the bracket angle (refer to 2-2), then tighten screw 3. Perform an area check. If re-adjustment is required, loosen screw 3 and change the bracket angle. After the adjustment is complete, tighten screw 3 again.

9 Tighten the adjustment screw clockwise.

10 Wire to the terminal and install the main unit and lens on the base.

11 Install the shaft cover into place.
2-2 ADJUSTING THE VERTICAL ANGLE

For best performance, install detector parallel to the ground. Decide the detection length. If you choose 9.0 m/5.5 m/4.0 m, mask the unnecessary lens with masking seals. Refer to the 1-5 for the details.

Perform the walk test to check if detector is parallel to the ground.

If the detection length is shorter than the designated one (refer to page 5), change the detector angle upward.

If the detection length is longer than the designated one (refer to page 5), change the detector angle downward.

Caution>>
If the base of the unit is already parallel to the ground,
• Do not change the detection length by tilting the unit up or down. Detection length should be adjusted with masking seal. Refer to 1-5 and 2-1 for the details.

Example (the ground is level)
0° is the right setting for 3.0 m (9'10") height installation.
Adjust 1 click (2.5° upward) for 2.5 m (8'2") height installation.

0° 2 clicks (5°)
4 clicks (10°)

0° 2 clicks (5°)
4 clicks (10°)
2-3 MOUNTING WITHOUT BRACKET

1. Open the wiring knockout with suitable tool e.g. screwdriver.

2. Pull the wire through the base knockout.

3. Fasten the base to the wall.

4. Install main unit after wiring to the terminal.
### 2-4 Wiring

Power wires should not exceed the following lengths.

<table>
<thead>
<tr>
<th>Wire Gauge</th>
<th>HX-40</th>
<th>HX-40AM</th>
<th>HX-40DAM</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>12 V</td>
<td>14 V</td>
<td>12 V</td>
</tr>
<tr>
<td>AWG22 (0.33 mm²)</td>
<td>160 m (520')</td>
<td>360 m (1,180')</td>
<td>140 m (460')</td>
</tr>
<tr>
<td>AWG20 (0.52 mm²)</td>
<td>260 m (850')</td>
<td>560 m (1,840')</td>
<td>230 m (750')</td>
</tr>
<tr>
<td>AWG18 (0.83 mm²)</td>
<td>410 m (1,350')</td>
<td>900 m (2,950')</td>
<td>360 m (1,180')</td>
</tr>
</tbody>
</table>

*1: TAMPER terminals to be connected to a 24 hour supervisory loop.
### 2-5 WALL TAMPER (OPTION)

Universal magnet switch may be mounted as a wall tamper. Installation space for universal magnet switch is provided on the back of the main unit and the bracket.

Maximum size of an applicable universal magnet switch: D 9 mm (0.35’’) × W 40 mm (1.57’’) × H 9 mm (0.35’’).

Universal magnet switch on the market assist is not included.

#### Installation

1. Install the universal magnet switch (wall side) to the wall. To determine the install position, use the “Install position template” provided on the inside cover of the product package.

2. Open the wiring knockout with suitable tool e.g. screwdriver.

3. Install the other portion of the universal magnet switch to the back of the main unit or the bracket. Pull the wiring through the knockouts.

When not using the bracket:

4. Fix
5. Wiring sponge pad
Set the DIP switch 1 (LED ON/OFF) to “ON”.

Note>>
The switch is set “ON” by factory default.

Check that the detector detects an object in the intended detection area. The installation has been successful if the LED lights for two seconds after a person walks into the detection area.

Note>>
For the walk test, move more than 1.0 m (3’3”) away from the detector.

If the LED indication is not required at all times, set the DIP switch 1 (LED ON/OFF) to “OFF”.

Install the bracket and the main unit to the wall surface.

Connect the universal magnet switch wiring to the tamper terminal of the main unit.

3 WALK TEST

1 Set the DIP switch 1 (LED ON/OFF) to “ON”.

2 Check that the detector detects an object in the intended detection area. The installation has been successful if the LED lights for two seconds after a person walks into the detection area.

3 If the LED indication is not required at all times, set the DIP switch 1 (LED ON/OFF) to “OFF”.

When using the bracket:

- Fix
- Tilt the bracket about 45° and pass through the wire.

In
Out
Magnet switch
Wiring sponge pad

Fix
Wiring

Detected
Not detected

- 12 -
### LED ON/OFF

<table>
<thead>
<tr>
<th>POSITION</th>
<th>FUNCTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>ON (Factory default)</td>
<td>The LED lights when someone is detected.</td>
</tr>
<tr>
<td>OFF</td>
<td>The LED does not light even if someone is detected.</td>
</tr>
</tbody>
</table>

### PIR IMMUNITY

<table>
<thead>
<tr>
<th>POSITION</th>
<th>FUNCTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>STD (Factory default)</td>
<td>PIR IMMUNITY logic is not activated.</td>
</tr>
<tr>
<td>IMMUNITY</td>
<td>PIR IMMUNITY logic is activated. Use this under harsh environment (e.g. small animal).</td>
</tr>
</tbody>
</table>
-AUX INPUT

DIP switch 3

By connecting a satellite unit (another warning sensor), you can extend the detection area and correct false alarms. As a satellite unit, you can use any general no-voltage contact output (NC) warning sensor, including the following. <Infrared (AIR) sensors, thermal line (PIR) sensors, universal magnet switches, etc.>

<table>
<thead>
<tr>
<th>POSITION</th>
<th>FUNCTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>AND (Factory default)</td>
<td>When both the main unit and the satellite detect someone, the alarm is output. Set to this when not connecting a satellite unit.</td>
</tr>
<tr>
<td>OR</td>
<td>When either the main unit or the satellite detects someone, the alarm is output.</td>
</tr>
</tbody>
</table>

Notes>>
- The alarm does not output unless both the main unit and the satellite detect someone within 60 sec.
- If the OR mode is selected without a satellite unit connected, the alarm is generated continuously.

-TROUBLE OUTPUT

DIP switch 4

Trouble output is used for anti-masking signal. When an object is placed close to the lens surface, for a period of more than 180 sec., the IR Anti-Masking circuit is activated and generates a trouble signal.

<table>
<thead>
<tr>
<th>POSITION</th>
<th>FUNCTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>ON (Factory default)</td>
<td>Anti-masking signal is output from TROUBLE OUTPUT terminal.</td>
</tr>
<tr>
<td>OFF</td>
<td>Anti-masking signal is output from both TROUBLE and ALARM OUTPUT terminal.</td>
</tr>
</tbody>
</table>

Note>>
Use this when not wiring a detected trouble input terminal on the control panel.

-MICROWAVE IMMUNITY

DIP switch 5

MICRO WAVE IMMUNITY logic is not activated.

<table>
<thead>
<tr>
<th>POSITION</th>
<th>FUNCTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>STD (Factory default)</td>
<td>MICRO WAVE IMMUNITY logic is activated. Use this under harsh environment (e.g. vegetation sway).</td>
</tr>
</tbody>
</table>

STD IMMUNITY
### MW RANGE SELECTOR / MW SENSITIVITY ADJUSTMENT

<table>
<thead>
<tr>
<th>PIR AREA SETTING</th>
<th>DETECTION AREA (SIDE VIEW)</th>
<th>MW RANGE SELECTOR</th>
<th>MW SENSITIVITY ADJUSTMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>12.0 m (40')</td>
<td><img src="image1.png" alt="Image" /></td>
<td>LONG</td>
<td>MID</td>
</tr>
<tr>
<td></td>
<td></td>
<td>SHORT</td>
<td>L H</td>
</tr>
<tr>
<td>Factory default</td>
<td><img src="image2.png" alt="Image" /></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9.0 m (29.6&quot;)</td>
<td><img src="image3.png" alt="Image" /></td>
<td>SHORT</td>
<td>HIGH</td>
</tr>
<tr>
<td></td>
<td></td>
<td>SHORT</td>
<td>L H</td>
</tr>
<tr>
<td>5.5 m (18&quot;)</td>
<td><img src="image4.png" alt="Image" /></td>
<td>SHORT</td>
<td>MID</td>
</tr>
<tr>
<td></td>
<td></td>
<td>SHORT</td>
<td>L H</td>
</tr>
<tr>
<td>4.0 m (13&quot;)</td>
<td><img src="image5.png" alt="Image" /></td>
<td>SHORT</td>
<td>LOW</td>
</tr>
<tr>
<td></td>
<td></td>
<td>SHORT</td>
<td>L H</td>
</tr>
</tbody>
</table>
-DETECTION LENGTH ADJUSTMENT

To limit the detection length, apply the appropriate masking seal. Note that there are three different types of seal.

- AREA ADJUSTMENT

-PARTIAL MASKING

A paste on example for masking No. 5 and No. 6

9.0 m (29'6")

5.5 m (18'1")

4.0 m (13'1")

- AREA MASKING

Pasting on example for masking No. 5 and No. 6

Caution>>

When closing the cover, do not leave any object within 1 meter from the unit.
### LED INDICATION

**-HX-40/40AM**

<table>
<thead>
<tr>
<th>DETECTOR CONDITION</th>
<th>LED INDICATOR (RED ONLY)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Warm-up</td>
<td><img src="hx-40/40am-warm-up" alt="LED Indicator Diagram" /></td>
</tr>
<tr>
<td>Alarm</td>
<td><img src="hx-40/40am-alarm" alt="LED Indicator Diagram" /></td>
</tr>
<tr>
<td>Trouble output</td>
<td><img src="hx-40/40am-trouble-output" alt="LED Indicator Diagram" /></td>
</tr>
<tr>
<td>Masking detection</td>
<td><img src="hx-40/40am-masking-detection" alt="LED Indicator Diagram" /></td>
</tr>
</tbody>
</table>

**-HX-40DAM**

<table>
<thead>
<tr>
<th>DETECTOR CONDITION</th>
<th>LED INDICATOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Warm-up</td>
<td><img src="hx-40dam-warm-up" alt="LED Indicator Diagram" /></td>
</tr>
<tr>
<td>Alarm</td>
<td><img src="hx-40dam-alarm" alt="LED Indicator Diagram" /></td>
</tr>
<tr>
<td>PIR detection</td>
<td><img src="hx-40dam-pir-detection" alt="LED Indicator Diagram" /></td>
</tr>
<tr>
<td>MW detection</td>
<td><img src="hx-40dam-mw-detection" alt="LED Indicator Diagram" /></td>
</tr>
<tr>
<td>Trouble output</td>
<td><img src="hx-40dam-trouble-output" alt="LED Indicator Diagram" /></td>
</tr>
<tr>
<td>Masking detection</td>
<td><img src="hx-40dam-masking-detection" alt="LED Indicator Diagram" /></td>
</tr>
</tbody>
</table>
## 7-1 SPECIFICATIONS

<table>
<thead>
<tr>
<th>Model</th>
<th>HX-40</th>
<th>HX-40AM</th>
<th>HX-40DAM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Detection method</td>
<td>Passive infrared</td>
<td>Passive infrared &amp; Microwave</td>
<td></td>
</tr>
<tr>
<td>PIR Coverage</td>
<td>12.0 m (40') 85° wide / 94 zones</td>
<td>12.0 m (40') 85° wide / 94 zones</td>
<td></td>
</tr>
<tr>
<td>PIR distance limit</td>
<td>4.0 m, 5.5 m, 9.0 m (13'1&quot;, 18'1&quot;, 29'6&quot;)</td>
<td>4.0 m, 5.5 m, 9.0 m (13'1&quot;, 18'1&quot;, 29'6&quot;)</td>
<td></td>
</tr>
<tr>
<td>Detectable speed</td>
<td>0.3 m/s – 1.5 m/s (1'/s – 4'11'/s)</td>
<td>0.3 m/s – 1.5 m/s (1'/s – 4'11'/s)</td>
<td></td>
</tr>
<tr>
<td>Sensitivity</td>
<td>2.0°C (3.6°F) at 0.6 m/s</td>
<td>2.0°C (3.6°F) at 0.6 m/s</td>
<td></td>
</tr>
<tr>
<td>Power input</td>
<td>9.5 – 18 V DC</td>
<td>9.5 – 18 V DC</td>
<td>9.5 – 18 V DC</td>
</tr>
<tr>
<td>Current draw</td>
<td>35 mA (max.) at 12 V DC</td>
<td>40 mA (max.) at 12 V DC</td>
<td>55 mA (max.) at 12 V DC</td>
</tr>
<tr>
<td>Alarm period</td>
<td>2.0 ± 1 sec.</td>
<td>2.0 ± 1 sec.</td>
<td>2.0 ± 1 sec.</td>
</tr>
<tr>
<td>Warm-up period</td>
<td>Approx. 60 sec. (LED blinks)</td>
<td>Approx. 60 sec. (LED blinks)</td>
<td>Approx. 60 sec. (LED blinks)</td>
</tr>
<tr>
<td>Alarm output</td>
<td>Form C 28 V DC 0.2 A (max.)</td>
<td>Form C 28 V DC 0.2 A (max.)</td>
<td>Form C 28 V DC 0.2 A (max.)</td>
</tr>
<tr>
<td>Tamper output</td>
<td>N.C. 28 V DC, 0.1 A (max.) N.C. open when cover removed.</td>
<td>N.C. 28 V DC, 0.1 A (max.) N.C. open when cover removed.</td>
<td>N.C. 28 V DC, 0.1 A (max.) N.C. open when cover removed.</td>
</tr>
<tr>
<td>Trouble output</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Aux input</td>
<td>N.C. 28 V DC, 0.1 A (max.)</td>
<td>N.C. 28 V DC, 0.1 A (max.)</td>
<td>N.C. 28 V DC, 0.1 A (max.)</td>
</tr>
<tr>
<td>LED indicator</td>
<td>Red: Warm-up, Alarm</td>
<td>Red: Warm-up, Alarm, Trouble</td>
<td>Red: Warm-up, Alarm, Trouble</td>
</tr>
<tr>
<td>RF interference</td>
<td>No alarm 10 V/m</td>
<td>No alarm 10 V/m</td>
<td>No alarm 10 V/m</td>
</tr>
<tr>
<td>Operating temperature</td>
<td>-20 – +60°C (-4 – +140°F)</td>
<td>-20 – +60°C (-4 – +140°F)</td>
<td>-20 – +60°C (-4 – +140°F)</td>
</tr>
<tr>
<td>Environment humidity</td>
<td>95% max.</td>
<td>95% max.</td>
<td>95% max.</td>
</tr>
<tr>
<td>Weatherproof</td>
<td>IP55</td>
<td>IP55</td>
<td>IP55</td>
</tr>
<tr>
<td>Mounting</td>
<td>Wall</td>
<td>Wall</td>
<td>Wall</td>
</tr>
<tr>
<td>Mounting height</td>
<td>2.5 – 3.0 m (8'2&quot; – 9'10&quot;)</td>
<td>2.5 – 3.0 m (8'2&quot; – 9'10&quot;)</td>
<td>2.5 – 3.0 m (8'2&quot; – 9'10&quot;)</td>
</tr>
<tr>
<td>Bracket adjust angle</td>
<td>Vertical: ±20° Horizontal: ±95°</td>
<td>Vertical: ±20° Horizontal: ±95°</td>
<td>Vertical: ±20° Horizontal: ±95°</td>
</tr>
<tr>
<td>Weight</td>
<td>600 g (21.2 oz.)</td>
<td>700 g (24.7 oz.)</td>
<td>700 g (24.7 oz.)</td>
</tr>
<tr>
<td>Accessories</td>
<td>Bracket, Hood, Area masking seal, Screw (3 × 10 mm) x 2, Screw (4 × 20 mm) x 4</td>
<td>Bracket, Hood, Area masking seal, Screw (3 × 10 mm) x 2, Screw (4 × 20 mm) x 4</td>
<td>Bracket, Hood, Area masking seal, Screw (3 × 10 mm) x 2, Screw (4 × 20 mm) x 4</td>
</tr>
</tbody>
</table>

*Specifications and designs are subject to change without prior notice.*
7-2 DIMENSIONS

Using bracket and hood

Without bracket and hood

Unit: mm (inch)
NOTE

The following statement will be provided with the equipment as required by Article 6.3 of the R&TTE Directive, 1999/5/EC.

The Optex HX series are in conformity with all essential requirements of the R&TTE Directive (1999/5/EC). This equipment has been assessed to the following standards:

EN 300 440-1: 2009
EN 50130-4: 2004 including amendment 2: 2003
EN 60950-1: 2006+A11: 2009

This product is marked with which signifies conformity with Class II product requirements specified in the R&TTE Directive.

The following table indicates the areas of intended use of the equipment and any known restrictions. For countries not included in this list, please consult the responsible Spectrum Management Agency.

<table>
<thead>
<tr>
<th>Country of intended use</th>
<th>Restrictions</th>
<th>Country of intended use</th>
<th>Restrictions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Austria</td>
<td>9.900GHz</td>
<td>Luxembourg</td>
<td>10.525GHz</td>
</tr>
<tr>
<td>Belgium</td>
<td>10.525GHz</td>
<td>The Netherlands</td>
<td>10.525GHz</td>
</tr>
<tr>
<td>Denmark</td>
<td>10.525GHz</td>
<td>Spain</td>
<td>10.525GHz</td>
</tr>
<tr>
<td>Finland</td>
<td>9.900GHz</td>
<td>Sweden</td>
<td>10.525GHz</td>
</tr>
<tr>
<td>France</td>
<td>10.587GHz</td>
<td>United Kingdom</td>
<td>10.587GHz</td>
</tr>
<tr>
<td>Greece</td>
<td>10.525GHz</td>
<td>Other non-EU Ireland</td>
<td>10.525GHz</td>
</tr>
<tr>
<td>Ireland</td>
<td>10.587GHz</td>
<td>Norway</td>
<td>10.525GHz</td>
</tr>
<tr>
<td>Italy</td>
<td>10.525GHz</td>
<td>Switzerland</td>
<td>10.525GHz</td>
</tr>
</tbody>
</table>

FCC ID : DC9 OPMW        IC : 4012A-OPMW

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The HX-40 series is only a part of a complete system, therefore we cannot accept complete responsibility for any damages or other consequences resulting from an intrusion.

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