DESCRIPTION
The OSM3D-DDW is a 5.8 GHz high frequency microwave motion sensor designed to provide additional energy
saving capability to any application. The sensor will switch ON when there is movement detected and OFF when
there is no movement detected.

FEATURES
 Automatic switching or dimming when used in combination with 0-10V dimmable LED drivers or ballasts.
 Built-in Daylight Sensor.
 Detection Area, Hold Time and Daylight Sensor can be precisely set via DIP switches.
 Supports higher mounting height up to 40 (12 m) max.
 Wide Detection Area, range up to 52' (16 m) in diameter.
 5 year warranty.

FUNCTIONS
ON/Off: (Wiring diagram 1) The sensor will switch lights ON when motion is detected, and OFF after the set
Time has expired. The sensor switches ON when motion is detected and OFF after the set Time expires when there is no
motion detected.
3-Step Dimming: (Wiring diagram 2) 0-10V luminaires are controlled by several sensors tied together through the
SYNC connection. When motion is detected by any one of the sensors a signal is transmitted to the other sensors. Then,
all luminaires switch ON at the same time.
Daylight Harvesting: (Wiring diagram 3) When used in combination with a 0-10V external Daylight Sensor
(DC/DC-DW sold separately), the system has automated controls that either turn ON or DIM artificial light in
response to the available daylight in the space.

INSTALLATION
1. WARNING: TO AVOID FIRE, SHOCK, OR DEATH; TURN OFF POWER at circuit breaker or fuse and test that the
power is off before wiring or servicing luminaire or changing bulbs.
2. Mount in a listed junction box or enclosure only. There are two types of installation, base-mounting (fig. 2) and
flush-mounting (fig. 3), suitable for different luminaires. Mounting hardware is supplied.
3. Connect wire according to Wiring Diagram as follows:
- INPUT: Strip wires approx. 3/8" (.95 cm) and insert into push-in-terminals.
  Line Hot wire to INPUT terminal marked L. Line Neutral wire to INPUT terminal marked N.
  OUT: Strip wires approx. 3/8" (.95 cm) and insert into push-in-terminals.
- 0-10V: Strip wires approx. 3/8" (.95 cm) and insert into push-in-terminals.
- SYNC: Strip wires approx. 3/8" (.95 cm) and insert into push-in-terminals.
4. Terminate power at circuit breaker or fuse.

NOTE:
- Allow approximately two minutes for charge-up. If the lights turn ON and the LED blinks when a hand is
detected in front of the sensor, then the sensor light is different, refer to the Troubleshooting Section. The Sensor is factory preset to work without any adjustments.

DIP Switch Settings:
On/Off Switches:
- 1-2, Bank 1: When no motion is detected, the sensor switches OFF.
- 3-5, Bank 1: When motion is detected, the sensor switches ON.

Detection Area, Hold Time and Daylight Sensor:
- Hold Time: set properly, adjust DIP switches #3-5, Bank 1.
- Detection Area: set improperly, adjust DIP switches #1-2, Bank 1.

Daylight Sensor:
- Sensor is wired incorrectly, confirm that the sensor's wiring is done correctly and inspect visualley for problems.
- Incorrect Daylight Sensor setting selected, adjust setting.

TROUBLESHOOTING
- Lights will not turn ON
  - Sensor is wired incorrectly, confirm that the sensor’s wiring is done correctly and inspect visually for problems.

- Light does turn OFF too quickly
  - The sensor is wired incorrectly, confirm that the sensor’s wiring is done correctly and inspect visually for problems.

- Make sure the luminaire is installed and at least 1 ft. (30 cm) space between the luminaire and surrounding reflective surfaces, i.e. metal, glass or concave mirror.
- Detection Area set improperly, adjust DIP switches #1-2, Bank 1.

- Hold Time set improperly, adjust DIP switches #1-2, Bank 1.
ON/OFF Function (Wiring diagram 1):

3-Step Dimming (Wiring diagram 2):

Daylight Harvesting (Wiring diagram 3):

FCC COMPLIANCE STATEMENT
Contains FCC ID: 2AI53-MC601V
This device complies with Part 15 of the FCC Rules. Operation is subject to 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.

This equipment has been tested and found to comply with the limits for a Class B Digital Device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment OFF and ON, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC CAUTION
Any changes or modifications not expressly approved by Leviton Manufacturing Co., Inc., could void the user’s authority to operate the equipment.

INDUSTRY CANADA COMPLIANCE STATEMENT
Contains IC: 21718-MC601V
This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

LIMITED 5 YEAR WARRANTY AND EXCLUSIONS
Leviton warrants to the original consumer purchaser and not for the benefit of anyone else that this product at the time of its sale by Leviton is free of defects in materials and workmanship under normal and proper use for five years from the purchase date. Leviton’s only obligation is to correct such defects by repair or replacement, at its option. For details visit www.leviton.com or call 1-800-824-3005.

This warranty excludes and there is disclaimed liability for labor for removal of this product or reinstallation. This warranty is void if this product is installed improperly or in an improper environment, overloaded, misused, opened, abused, or otherwise used in a manner or in a manner not in accordance with any labels or instructions. There are no other implied warranties of any kind, including merchantability and fitness for a particular purpose. All implied warranty is limited to the applicable jurisdiction, the duration of any such implied warranty, including merchantability and fitness for a particular purpose, as limited to five years. Leviton is not liable for incidental, indirect, special, or consequential damages, including without limitation, damage to, or loss of use of, any equipment, lost sales or profits or delay or failure to perform this warranty obligation. The remedies provided here are the exclusive remedies under this warranty, whether based on contract, tort or otherwise.

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