

LIGHTOLIER CONTROLS

ONSET MICRO-TOUCH DIGITAL DIMMER

CAUTION:

Read and follow the instructions carefully. It is recommended that you save these instructions in the event they're needed for future reference. Before beginning any electrical work, either disconnect all power at the circuit breaker or remove the appropriate fuses. Doing so will prevent electrical shock and avoid damage to the equipment. This device is intended for installation in accordance with the National Electric Code and local regulations. It is recommended that an electrician perform this installation.

Description

The Onset Digital Dimmer is a single-pole, micro-touch digital dimmer.

Installation Instructions

- Identify and mark each wire in the wall box, making sure you have the correct number of wires needed for the appropriate installation diagram.
- Before installation, disconnect power to the circuit by removing the fuse or turning the circuit breaker to the off position.
- Unpack the Onset Digital Dimmer.
- Follow the wiring diagram that corresponds to your installation project (i.e., single-pole or three-way installation).
- Remove the existing switch from the wall box.
- Connect the white dimmer wire to the neutral in the wall box. (**)
- Connect the device as shown. NOTE: To determine which wire is the line wire (120 VAC), use a circuit tester or an equivalent device.
 - With the circuit energized, carefully touch the tip of one of the wall box wires with a tester probe.
 - Make contact to the ground (i.e., touch the metal wall box or the ground wire) with the other tester probe. The indicator light on the tester should glow.
 - If the tester light does not illuminate, repeat the test on other wall box wires until the light glows.
- Position the device into the wall box and install the faceplate.

Single-Pole Installation

- NOTE: Wire colors indicated are those of the device only, not the wires in the wall box. Be sure to test wall box wires before making any connections.
- Connect the device following the single-pole wiring diagram shown.

Three-Way Installation

- NOTE: Three-way or multi-location applications require the use of an Onset Three-Way Remote OSR-3, in conjunction with an Onset Preset Dimmer.
- Please refer to the installation instructions included with the Onset Three-Way Remote for proper wire connections.
- NOTE: A regular three-way switch should NOT be used to control an Onset dimmer. Doing so may damage the control and, in turn, void the unit's warranty.

Operating Instructions

LED Indicators:

Soft green: User preset (1), Bright green: Current level (2),
Blinking red: Fading off (3), Glowing red: Dimmer off (4)

Set a Preset (from off):

- Hold down rocker top (A) and release when desired lighting level is reached.
- Press set button on the right side of the frame (C).

Turn Lights on to Preset (from off):

- Tap rocker top (A) once.

Turn Lights on to Full Power:

- Tap rocker top (A) twice.

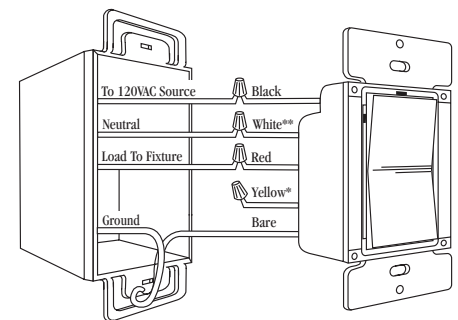
To Adjust the Lighting Level:

- Hold down rocker top (A) or bottom (B) and release when desired lighting level is reached.

Turn Lights Off:

- Tap rocker bottom (B) once or twice.

Wiring Diagrams

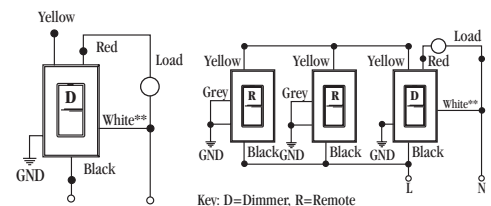


* For 3-Way installation only. Cap if not used.

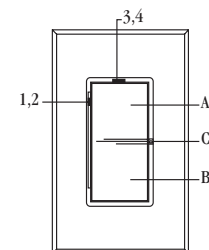
** Neutral connection required only on VA, HDE QE, ESI and EB models.

Single Pole & 3-Way

No common neutral on dimmed circuits.



Key: D=Dimmer, R=Remote



ONSET MICRO-TOUCH DIGITAL DIMMER

Installation
Instructions

Ganging Information

High-wattage Onset Micro-Touch Digital Dimmers may be mounted with other Lightolier heatsink controls that match in depth. Fins may be left intact (see "No Fins Broken" below), or they may be broken to conserve wall space (see "Fins Broken" below).

No Fins Broken

Multiple Onset high-wattage controls may be mounted together with dimmers of the same depth, without derating. However, they must be mounted in separate single wall boxes. These boxes must be spaced to the dimensions shown to the right to ensure proper alignment. Allow six inches free clearance above and below the controls.

Another mounting option is to gang wall boxes together for ease of installation. Refer to the chart to the right to find the minimum number of wall boxes needed when no fins are broken.

There is a special placement guideline to consider when ganging Onset Double-Gang Controls with other Lightolier Single-Gang Controls. As stated in the chart, to comply with spacing, you must be sure to install a single-gang control on one end and a double-gang control on the other end.

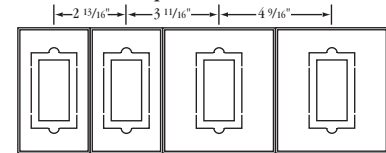
Fins Broken

When ganging high-wattage controls that match in depth, fins may be broken to conserve wall space. This applies to both single- and double-gang units. Using a vise or heavy-duty pliers, remove the outer fins on either or both sides, as needed. (Consult the wall box centering dimensions.) Allow six inches free clearance above and below the controls. Then, when the fins are removed, derate the maximum load according to the derating chart to the right.

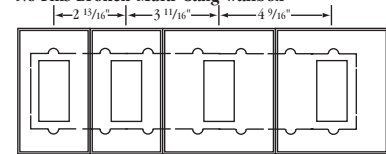
Derating

For proper fit during a multiple-gang Onset installation, it may be necessary to remove one or both sides from the mounting strap or finned heatsink prior to connecting the wire leads. When fins are broken, the overall rating of the device must be reduced according with the derating chart to the right.

No Fins Broken-Separate Wallboxes



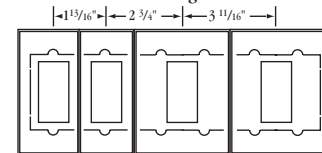
No Fins Broken-Multi-Gang Wallbox



No Fins Broken-Multi Gang Wallbox

Single Gang Units	Double Gang Units					
	0	1	2	3	4	5
0	0	1	4	6	9	12
1	1	3	6	8	11	13
2	1+1	5	7	10	12	15
3	4	6	9	11	14	16
4	4+1	8	10	13	15	18
5	7	9	12	14	17	20

Fins Broken-Multi-Gang Wallbox



Fins Broken-Multi-Gang Wallbox

Single Gang Units	Double Gang Units					
	0	1	2	3	4	5
0		1	3	5	7	9
1	1	3	5	7	9	11
2	2	4	6	8	10	12
3	3	5	7	9	11	13
4	4	6	8	10	12	14
5	5	7	9	11	13	15

Important Notes

- Use OS/OH with no suffix to control permanently installed incandescent lamp fixtures only.
CAUTION: To reduce risk of overheating and possible damage to other equipment, do not install this unit to control a receptacle; a motor-operated appliance; a fluorescent lighting fixture; or a transformer-supplied fixture, such as a low-voltage, neon or cold-cathode.
- Use OS/OH-VA suffix for control of permanently installed incandescent, low-voltage, neon or cold-cathode lamp fixtures only. Use with magnetic transformers only.
- Use OES electronic switches with 1000-watt non-dim loads.
- Use OS/OH-QE suffixes to control permanently installed fixtures utilizing only solid-state electronic transformers or line-voltage incandescents. Please refer to the fixture manufacturer's specification sheet to find the transformer type.
- When breaking tabs/fins on 1000-watt strap/heatsink model devices, derate the dimmer capacity at 200 watts per tab/fin broken.
- When breaking fins on 1500/2000-watt models, derate the dimmer capacity at 150 watts per fin on the 1500-watt devices and 200 watts per fin on the 2000-watt devices.
- Use only a PowerSpec HDF dimmer to drive PowerSpec HDF ballasts. All PowerSpec HDF controls are wired to fixture using three line-voltage conductors.
- ESI dimmers are UL- and cUL-listed to control DIM-E electronic fluorescent dimming ballasts manufactured by Energy Savings, Inc. All ESI controls are wired to the fixture using two line-voltage conductors. A neutral connection is required.
- EB dimmers are UL- and cUL-listed to control the Advance® Mark 10® electronic dimming ballast. All EB controls are wired to the fixture using two line-voltage conductors. A neutral connection is required.

THREE YEAR LIMITED WARRANTY

The Philips Controls product, when properly installed and under normal conditions of use (without overload, abuse or alteration), is warranted to you, the original user, for a period of three years from the date of original retail purchase, to be free from defects in materials and workmanship. If during the warranty period you believe the purchased product or any part thereof has such a defect, you must return the product (or part) at your cost during such period, with proof of purchase (or if installed by a third-party a written explanation of installation transaction with proof of date), to Philips Controls, 2828 Trade Center Dr. Ste. 130B, Carrollton, TX 75007, for repair or replacement (or to an authorized Philips Controls supplier which agrees in advance to handle the return and replacement by factory authorization). If the product or part is found by Philips Controls to have been defective in material or workmanship it will be repaired or replaced (as deemed necessary by Philips Controls), and the replacement will be returned to you free of charge. The original user is solely responsible for any costs associated with removal and re-installation of the product and shipping to Philips Controls or its authorized supplier.

PHILIPS CONTROLS LIMITS THE DURATION OF THE IMPLIED WARRANTY OF MERCHANTABILITY WITH RESPECT TO THE PRODUCT TO THE LIMITED WARRANTY PERIOD SET FORTH ABOVE, AND OTHERWISE DISCLAIMS ALL IMPLIED WARRANTIES WITH RESPECT TO THE PRODUCT AND ITS PARTS. Some states disallow certain limitations on implied warranties so you should consult your state law if you have a questions regarding this limitation and disclaimer. Philips Controls disclaims any and all liability for incidental, consequential, special or indirect damage arising out of any claimed breach of warranty or otherwise. However, some states do not allow exclusion or limitation of such damages, so this disclaimer may not apply to you.

The remedy provided in the Limited Warranty for defective products is the user's sole and exclusive remedy, subject to your state law. Further, this Warranty gives the user specific legal rights, and the user may also have other rights which may vary from state to state.

If you believe warranty claim is warranted, you may contact your nearest authorized Philips Controls supplier. If one does not exist in your area, please contact Philips Controls Customer Service at the above address (or at 1-800-526-2731), or please visit us at www.lolcontrols.com.

Philips Controls
2828 Trade Center Dr. Suite 130B
Carrollton, TX 75007



Technical/Sales assistance: 1-800-526-2731
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