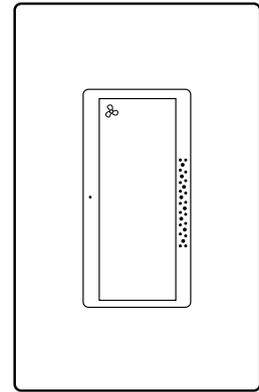


# XactSense Humidity Sensor Switch

The Lutron XactSense humidity sensor switch measures humidity levels in the space and uses advanced signal processing to determine when to activate the fan. When the humidity level increases rapidly or when the humidity level exceeds the set threshold level, the control activates the fan. The control can also be set to activate the fan every hour to circulate stale air.



### Features

- Adjustable timeout (5, 15, 30, 45 minutes)
- Adjustable sensitivity to rapid changes in humidity
- Adjustable relative humidity threshold to limit the humidity level in damp spaces
- Ambient light detection to inhibit fan operation during night time
- Ability to override the set timeout and keep the fan ON or OFF indefinitely
- Can be used to comply with 2024 International Energy Conservation Code (IECC) requirements for intermittent exhaust control for bathrooms and toilet rooms section R403.6.5.
- Can be used to comply with 2022 California Title 24 Part 11 (CALGreen) requirements for bathroom exhaust fans section 4.506.1.
- Not for use with a paddle-type ceiling fan or kitchen exhaust-type fan
- 3 A 1/10 HP Fan
- 3 A combined fan and light

### Models available

MS-HS3-WH

MS-HS3-WH-C (Candian model)

Job Name:	Model Numbers:
Job Number:	

### Specifications

#### Regulatory Approvals

- UL® Listed to U.S. and Canadian safety requirements
- NOM

#### Power

- 120 V~ 50/60 Hz

#### Key Design Features

- Controls fan and fan/light combination loads
- 3 A fan
- 3 A fan/light combination
- Neutral or ground wire required
- Smart ambient light detection

#### Environment

- Ambient operating temperature: 32 °F to 104 °F (0 °C to 40 °C). Indoor use only.

#### Warranty

- 5-Year Limited Warranty. For additional Warranty information, please visit [www.lutron.com/TechnicalDocumentLibrary/Sensor\\_Warranty.pdf](http://www.lutron.com/TechnicalDocumentLibrary/Sensor_Warranty.pdf)

### Advanced Features

- Contains advanced digital signal processing engine to detect rapid changes in humidity as well as humidity events from environmental variation and typical changes caused by events outside the intended use space.

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## Custom Settings

### Timeout Options

- 5 minute
- 15 minutes
- 30 minutes (default)
- 45 minutes

### Shower - sensitivity adjustment to rapid changes in humidity (i.e., showers in a bathroom)

- High
- Medium High
- Medium Low (default)
- Low

### Climate - relative humidity threshold adjustment to limit humidity levels in the space (i.e., basement or utility rooms)

- 50%
- 60%
- 70%
- 80% (default)

### Mode selection to optimize control operation for the target space

- Shower + Climate:
  - Operates the load when a rapid increase in humidity is detected or when a slow gradual increase in humidity due to changes in climate exceed the set threshold.
  - Recommended for bathrooms and damp spaces.
- Shower Only:
  - Operates the load when a rapid increase in humidity is detected.
  - Recommended for bathrooms.
- Air Cycle:
  - Operates the load once per hour based on timeout setting to circulate stale air.
  - Recommended for utility rooms, basements, and other areas with limited circulation.

### Ambient Light Detection (ALD):

"ALD enabled" prevents the fan from automatically turning on due to an increase in humidity when the bathroom is dark and likely unoccupied. The light threshold can be adjusted or the feature can be disabled. The High setting requires the most amount of light to allow the fan to turn ON. The Low setting requires the least amount of light to allow the fan to turn ON.

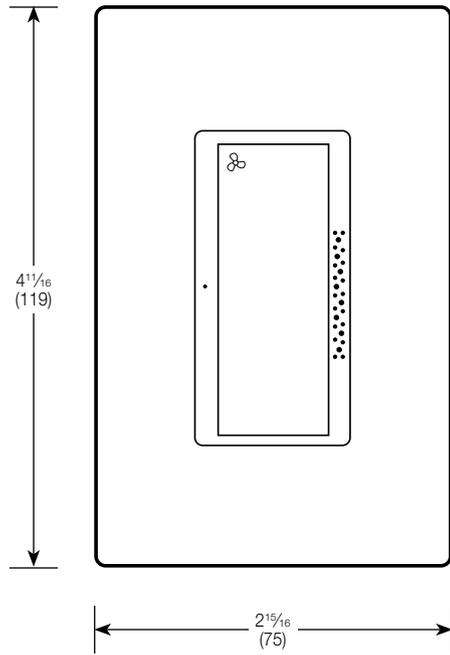
- High
- Medium (default)
- Low
- Disabled

<p><b>Job Name:</b></p> <p><b>Job Number:</b></p>	<p><b>Model Numbers:</b></p>
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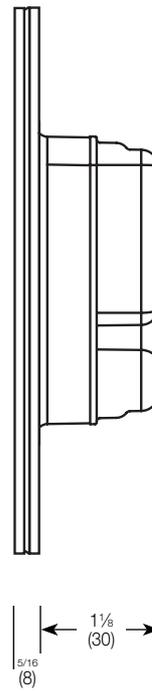
### Dimensions

Measurements shown as: in (mm)

Front View

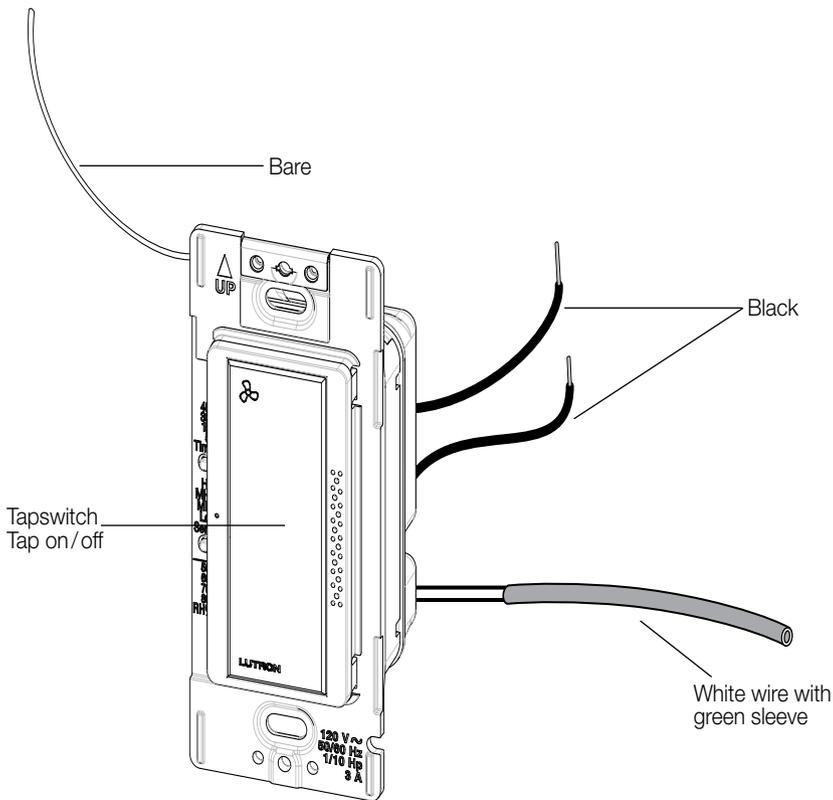
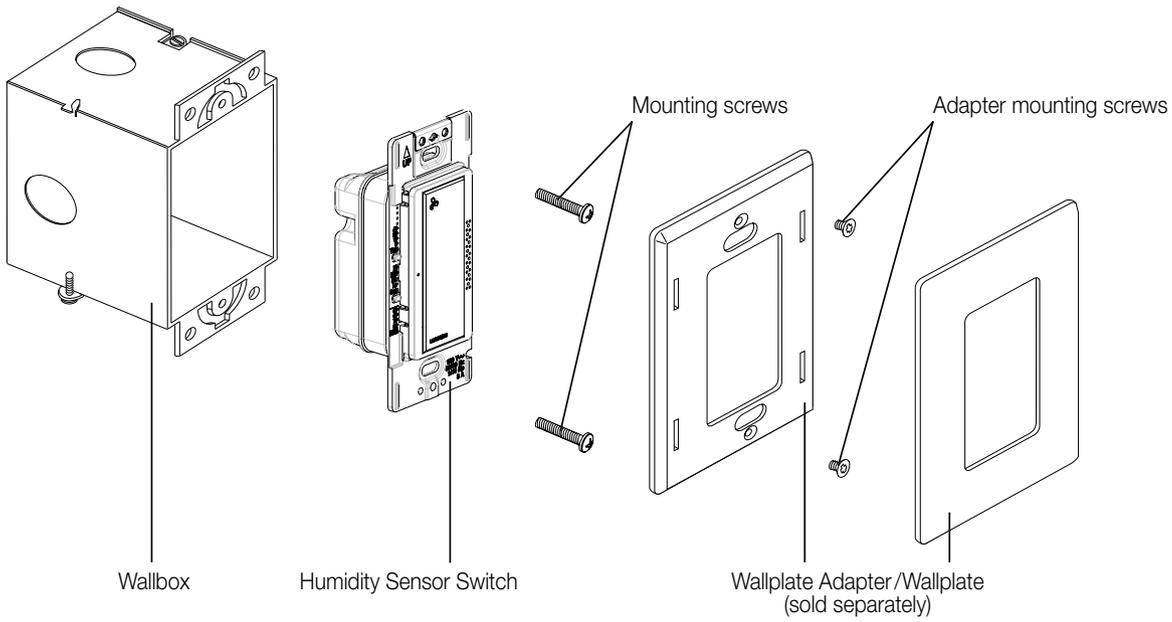


Side View



Job Name:	Model Numbers:
Job Number:	

# Mounting

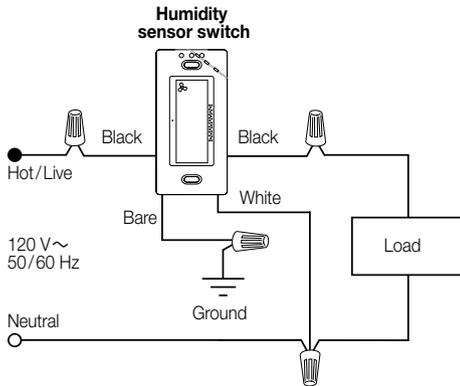


Job Name:	Model Numbers:
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### Wiring Diagrams

#### Wiring Diagram 1

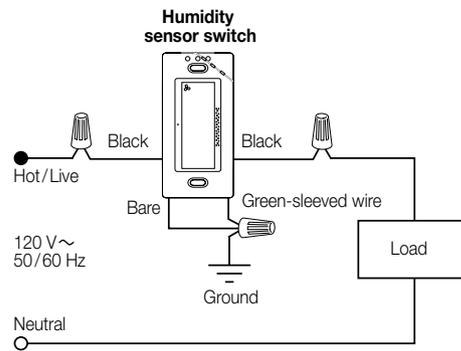
##### Single Location Installation with Neutral (120 V~)



**Note:** When a neutral connection is available, remove the green sleeve, and connect the white wire to neutral.

#### Wiring Diagram 2

##### Single Location Installation without Neutral (120 V~)

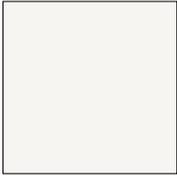


**Note:** Connect green-sleeved wire to ground only in retrofit and replacement applications.

Job Name:	Model Numbers:
Job Number:	

## Colors and Finishes

### Gloss Finishes



White  
WH

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<b>Job Number:</b>	