LAMARLED

occu-smart® S³ simple sensor solutions

The Voyager series is part of our Occu-Smart® S 3 product line. Equipped with an integral high frequency motion sensor, the VOLH features bi-level operation with adjustable standby light levels and time delay and optional Multi-Color tuning.

# VOLH Voyager series high frequency motion sensor | adjustable standby or on/off




Optional field adjustable CCT (Multi-Color Tuning)Choice of 3000K, 3500K or 4000K




High frequency motion sensors can detect motion through many materials including glass, sheet rock walls, wood doors and the lens of the fixture, enabling the sensor to be hidden from view - consult factory to see if an HF sensor is the right fit for your application

## Features and Specifications:

### Construction:

- Housings are manufactured from code gauge cold rolled steel
- Ends are injection molded for added strength and a clean appearance
- Diffuser is retained by continuous groove which locks into body as well as overlapping ends to eliminate vibration hazards
- One piece extruded frosted polycarbonate radial lens featuring a linear refractive pattern for even illumination

### Sensor Options:

- Internally mounted/hidden behind diffuser
- High Frequency motion sensor on/off
- High Frequency motion sensor with adjustable standby light level

### Size Options:

- Available in 2'and 4'lengths (nominal)

### Listing & Ratings:

- All electrical components are U.L. listed or recognized
- All fixtures are U.L. Certified and Union made in the USA

### Mounting Options:

- Ceiling, rigid stem or wall mount

### Driver:

- Universal voltage 120-277V standard
- Custom driver tuning available for specific lumen requirements
- Optional emergency backup available including "UL924" approved

### Warranty:

- 5 years - part replacement only (see our terms & conditions page at www.lamarled.com for details)

See page 2 for lumen chart, dimensions & accessories

## Ordering Guide / Example

**VOLHA48M-40**

**VOLH**

| Series | Sensor option | Size | Power | CCT | General Options |
|---|---|---|---|---|---|
| **VOLH**= Voyager | **F** = High frequency occupancy sensor on/off<br>**A** = High frequency occupancy sensor adjustable standby 10, 20, 30 or 50% | **24** = 2' nominal<br>**48** = 4' nominal | **L** = Low<br>**M** = Medium<br>**H** = High | **30** = 3000K<br>**35** = 3500K<br>**40** = 4000K<br>**50** = 5000K<br>**MCT** = User Selectable: 3000K, 3500K, 4000K | **EM** = Emergency pack >90 min., >500 lumens<br>**EMH** = Emergency pack >90 min., >1400 lumens<br>**EM9** = "UL924" approved as Emergency Lighting Equipment<br>**EMB** = BABA Compliant Emergency pack >90 min., >500 lumens<br>**ESRU** = 120V/277V emergency shunt relay |

Consult factory for additional options not shown or listed

Correlated Color Temperatures (CCTs) fall within the nominal range as per ANSI C78.377A

## Project Information:

Job Name: _____ Fixture Type: _____

Catalog #: _____ Date: _____

Comments: _____

## Certification & Listings:

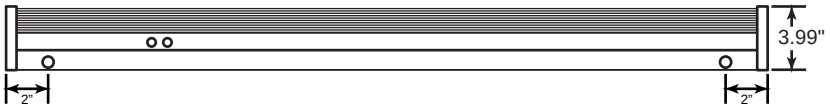
UL CERTIFIED · 120-277V Universal · CRI 80+ · BUILD AMERICA BUY AMERICA COMPLIANT BABA · UNION MADE IN THE USA · RoHS COMPLIANT · 0-10V DIM · YEAR 5 WARRANTY

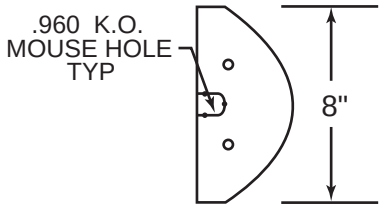
**LAMARLED 1150 Motor Pkwy, Central Islip, NY 11722 | tel 631.777.7700 fax 516.333.7695 | www.lamarled.com**

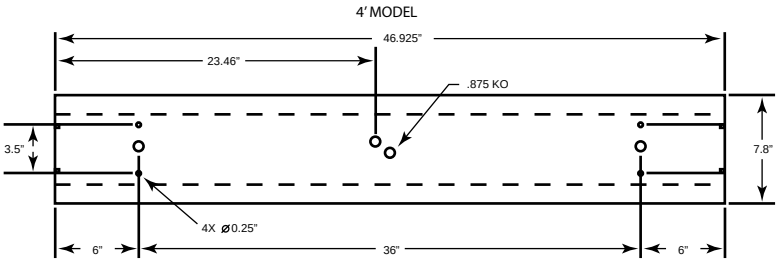
# VOLH Voyager series

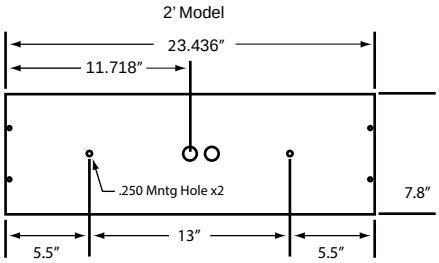
BEFORE INSTALLATION, PLEASE CONSULT YOUR LOCAL ORDINANCES AND BUILDING CODES FOR COMPLIANCE

## Dimensions




## Lumen/Wattage Chart - 5000K

| | 2' | | | 4' | | |
|---|---|---|---|---|---|---|
| | LOW | MED | HIGH | LOW | MED | HIGH |
| Full Lumens 5000K | 14W | 19W | 25W | 25W | 36W | 48W |
| | 1495 | 2060 | 2592 | 2990 | 4119 | 5176 |

| Approx Lumen Multiplier | |
|---|---|
| 3000K | .92 |
| 3500K | .94 |
| 4000K | .97 |




Optional field adjustable CCT (Multi-Color Tuning)Choice of 3000K, 3500K or 4000K

LAMAR LED assumes no responsibility for misapplication of fixtures
Due to the rapid advancements in LED technology, please consult our website for the most current technical data.

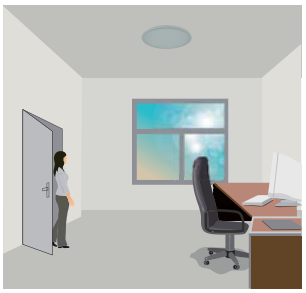
Specifications subject to change without notice - Rev 0825

# VOLH Voyager series

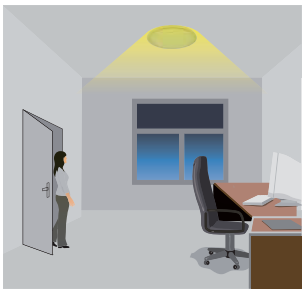
## Sensor Features/Details

### Tri-level dimming control (corridor function)

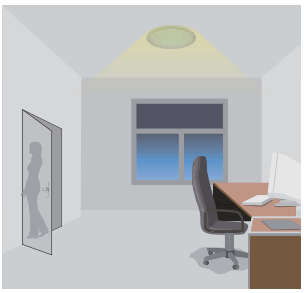
Tri-level dimming control sensors offer 3 levels of light: 100% -->dimmed light (10%, 20%, 30% or 50% optional) -->off; And 2 periods of selectable waiting time: Motion hold-time and stand-by period; selectable daylight threshold and freedom of detection area



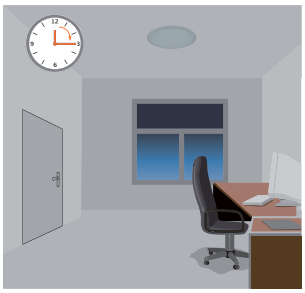
With sufficient natural light, the light does not switch on when presence is detected



With insufficient natural light, the sensor switches the light on automatically when a person enters the room



After hold-time, the light dims to stand-by level or turns off completely if surrounding natural light is above the daylight threshold



Light switches off automatically after the stand-by period elapses

**Features:**

- Adjustable detection area
- Hold-time
- Daylight threshold
- Stand-by period
- Stand-by dimming level
- Sensor antenna interface

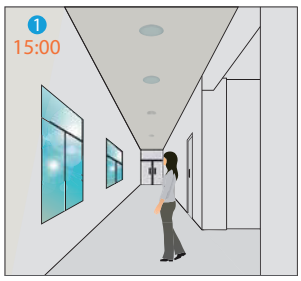
Factory set for bi-level operation 100%/10%

Tri-level dimming default factory setting = 10% bi-level
Off function = disabled

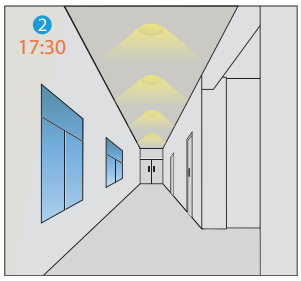
Daylight monitoring function default factory setting = disabled

### Daylight monitoring function

1) With sufficient natural light, the light will not turn on when motion is detected
2) After hold-time, the light turns off completely if surrounding natural light is sufficient
3) When stand-by period is preset at "+∞", the light will turn off completely when surrounding natural light is sufficient during stand-by period and turn on at dimming level automatically when natural light is below daylight threshold



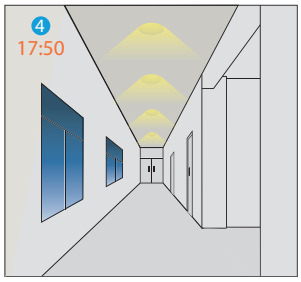

With sufficient natural light, the light does not switch on even when there is motion detected




At dusk, as the natural light drops below threshold value, the sensor turns the light on at the dimmed level



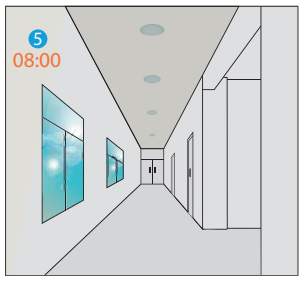

The light switches on at 100% when there is motion detected



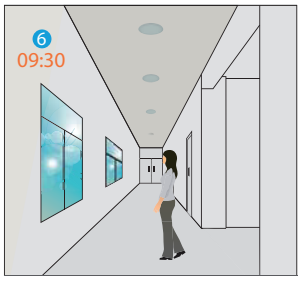

Light dims to stand-by level after the hold-time




100% on when motion is detected and dims to 10% in long absence




At dawn, light turns off completely when natural light reaches above daylight threshold




Light does not swtich on even when motion is detected during the daytime

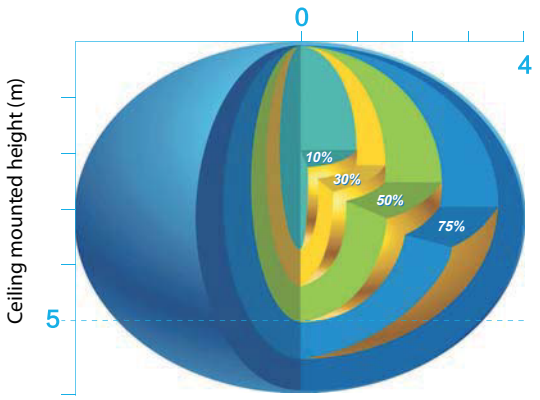
Settings on this demonstration:
Hold-time = 10min
Daylight threshold = 50lux
Stand-by period +°
Stand-by dimming level = 10%



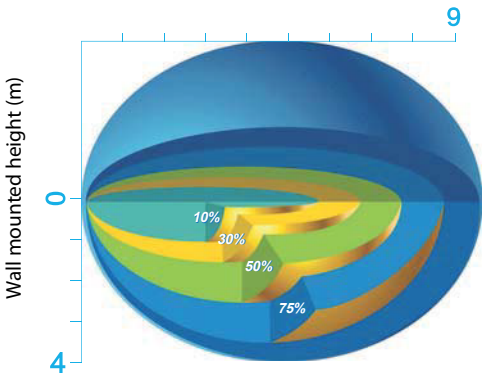
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## Sensor Features/Details Continued

### Detection pattern




Ceiling mounted detection pattern (m)




Wall mounted detection pattern (m)





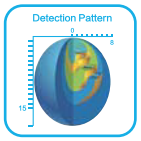











## Sensor Accessories




HRC = High frequency sensor remote control

For applications with backup generators requiring that connected bi-level lighting to be switched to full light output during power outages regardless of occupancy, we recommend our TTH series with emergency shunt relay (ESRU)

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Due to the rapid advancements in LED technology, please consult our website for the most current technical data.