

## SENSOR OPTIONS FOR FIXTURES

### PIR SENSOR



**Part Number:**  
ZL-MS-SENSOR-ANT-1P-4T

Power Supply	12-24VDC, >50mA
Dim Control Output	0-10V, max. 25mA sinking current
Mounting Height	12ft max.
Detection Angle	360°
Operating Temperature	-20°C-60°C



**Part Number:**  
ZL-REMOTE-RC-100  
(Sold Separately)

### MICROWAVE SENSOR, 3PIN STYLE



**Part Number:**  
ZL-MV-SENSOR-HD07VR-MH

Power Supply	10-15VDC, <30mA
Dim Control Output	DIM 0-10V
Mounting Height	12ft/39ft max.
Detection Distance	≥3m/9ft
Operating Temperature	-40°C-60°C



**Part Number:**  
ZL-REMOTE-HD05R  
(Sold Separately)

### MICROWAVE SENSOR, 3PIN STYLE WITH 90° ANGLE



**Part Number:**  
ZL-MV-SENSOR-HB-ARM-HD07R

Power Supply	10-15VDC, <30mA
Dim Control Output	DIM 0-10V
Mounting Height	12ft/39ft max.
Detection Distance	≥3m/9ft
Operating Temperature	-40°C-60°C



**Part Number:**  
ZL-REMOTE-HD05R  
(Sold Separately)

### BI-LEVEL MICROWAVE SENSOR



**Part Number:**  
ZL-MV-SENSOR-ANT-7

Power Supply	12-24VDC, >50mA
Dim Control Output	0-10V, max. 25mA sinking current
Mounting Height	Max. 20ft (6m)
Detection Distance	0-10V, max. (5.m) @8ft. (2.5) height/360°
Operating Temperature	-40°F-158°F (-40°C-70°C)



**Part Number:**  
ZL-REMOTE-RC-100  
(Sold Separately)

## SENSOR OPTIONS FOR FIXTURES

### PIR SENSOR



**Part Number:**  
ZL-MS-SENSOR-ANT-4A

Power Supply	12-24VDC, >50mA
Dim Control Output	-10V, max. 25mA sinking current
Mounting Height	15ft (4.5m) max.
Detection Angle	120°
Operating Temperature	-20°C-70°C

**IP20**



**Part Number:**  
ZL-REMOTE-RC-105  
(Sold Separately)



**Optional Power Supply:**  
MUSP-12V-03-SW

### MICROWAVE CURVED SENSOR



**Part Number:**  
ZL-MV-SENSOR-STRIP-DM

Power Supply	10-15VDC, <40mA
Dim Control Output	DIM 0-10V
Mounting Height	4m/13.12ft max.
Detection Distance	≥3m/9ft
Operating Temperature	-25°C-60°C

**IP20**



### PIR SENSOR



**Part Number:**  
ZL-MV-SENSOR-ANT-6-4T

Power Supply	12-24VDC, <30mA
Dim Control Output	0-10V, max. 25mA sinking current
Mounting Height	Max. 40ft (12m)
Detection Distance	20%/50%/75%/100%(1-8m)
Operating Temperature	-4°F-140°F (-20°C-60°C)

**IP65**



**Part Number:**  
ZL-REMOTE-RC-100  
(Sold Separately)



## SENSOR OPTIONS FOR FIXTURES

### PIR SENSOR WITH 90 DEGREE ARM



**Part Number:**  
ZL-MS-SENSOR-HB-ARM-ANT-6-4T

Power Supply	12-24VDC, <30mA
Dim Control Output	0-10V, max. 25mA sinking current
Mounting Height	Max. 40ft (12m)
Detection Angle	20%/50%/75%/100%(1-8m)
Operating Temperature	-4°F-140°F (-20°C-60°C)



**Part Number:**  
ZL-REMOTE-RC-100  
(Sold Separately)

### LOW VOLTAGE BI-LEVEL MICROWAVE SENSOR



**Part Number:**  
ZL-MV-SENSOR-ANT-3

Power Supply	12-24VDC, >50mA
Dim Control Output	0-10V, max. 25mA sinking current
Mounting Height	Max. 13ft (4m)
Detection Distance	Max. 17ft (5.2m) / 360°
Operating Temperature	-40°F-158°F (-40°C-70°C)



**Part Number:**  
ZL-REMOTE-RC-100  
(Sold Separately)

### MICROWAVE SENSOR



**Part Number:**  
ZL-MV-SENSOR-ANT-5-4T

Power Supply	12-24VDC, >50mA
Dim Control Output	0-10V, max. 25mA sinking current
Mounting Height	Max. 50ft (15m)
Detection Distance	20%/50%/75%/100%(1-m)
Operating Temperature	-4°F-140°F (-20°C-60°C)



**Part Number:**  
ZL-REMOTE-RC-100  
(Sold Separately)

### MICROWAVE SENSOR AUDIO JACK



**Part Number:**  
ZL-MV-SENSOR-HD09VR-MHB-1-BL

Power Supply	10-15VDC, <30mA
Dim Control Output	DIM 0-10V
Mounting Height	15m/49.21ft Max.
Detection Distance	≥3m/9ft
Operating Temperature	-40°C-70°C



#### CONTROL & SMART FEATURES

**Bluetooth Mesh (BLE) Support:**  
includes Bluetooth Mesh capabilities, allowing for HAISEN Blue app-based control and integration into smart lighting systems.

#### Allows:

Grouping of lights, Scheduling, Scene setting Remote dimming and motion sensitivity adjustments

## SENSOR OPTIONS FOR FIXTURES

### MICROWAVE SENSOR AUDIO JACK



**Part Number:**  
ZL-MV-SENSOR-HD09VR-MH

Power Supply	10-15VDC, <30mA
Dim Control Output	DIM 0-10V
Mounting Height	15m/49.21ft max.
Detection Angle	≥3m/9ft
Operating Temperature	-40°C-70°C



**Part Number:**  
ZL-REMOTE-HD05R  
(Sold Separately)

### MICROWAVE SENSOR – BLUETOOTH



**Part Number:**  
ZL-MV-HD08VR-MB-1

Power Supply	1-15VDC
Dim Control Output	DIM 0-10V
Mounting Height	4m/13.12ft max.
Detection Distance	≥3m/9ft
Operating Temperature	-25°C-60°C



### HD07VR-PH 12VDC PIR MOTION SENSOR



**Part Number:**  
ZL-MS-SENSOR-HD07VR-PH

Consult factory for more details.

Power Supply	10-15VDC
Dim Control Output	DIM 0-10V
Mounting Height	12m/39ft Max.
Detection Distance	≥3m/9ft
Operating Temperature	-25°C~+60°C



**Part Number:**  
ZL-REMOTE-HD05R  
(Sold Separately)



## SENSOR OPTIONS FOR FIXTURES

### BI-LEVEL DIM DUSK/DAWN MICROWAVE SENSOR



**Part Number:**  
ZL-MV-SENSOR-HD07VR-MH-B

Power Supply	10-15VDC
Dim Control Output	DIM 0-10V
Mounting Height	15m/49.21ft Max.
Detection Distance	≥3m/9ft
Operating Temperature	-25°C~+60°C



### MICROWAVE MOTION SENSOR



**Part Number:**  
ZL-HD08VR-M-1

Power Supply	10-15VDC
Dim Control Output	DIM 0-10V
Mounting Height	4m/13.2 max.
Detection Angle	30-150° (Without Glass Cover)
Operating Temperature	-25°C-60°C



### PIR MOTION SENSOR



**Part Number:**  
ZL-HD08VR-P-1

Power Supply	10-15VDC
Dim Control Output	DIM 0-10V
Mounting Height	4m/13.2 max.
Detection Angle	Fresnel Lens ≤120° Fresnel Lens 360° Ceiling Mounted
Operating Temperature	-25°C-60°C



### BLUETOOTH MICROWAVE SENSOR



**Part Number:**  
ZL-MV-SENSOR-ANT7-BLE-GE

Power Supply	12V-24VDC, >50mA
Dim Control Output	0-10V, max. 25mA sinking current
Mounting Height	Max. 20ft (6m)
Detection Angle	0-10V, max. (5.m) @8ft. (2.5) height/360°
Operating Temperature	-40°F-158°F (-40°C-70°C)

