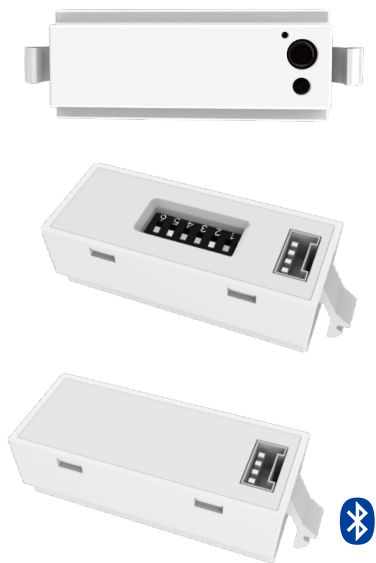




Description

HSE-BSM3L-5 is compact size Microwave sensor combines occupancy sensing with photocell. When used with 0-10V dim-to-off LED drivers, it enables any lighting manufacturer to deliver sensor-equipped fixtures with minimal engineering effort.

Features

- It operates on 12V DC which can be supplied by a LED driver, which will save OEM cost on manufacturer side.
- The integrated photocell can switch the lights on and off for dusk to dawn control, so that lighting remains on overnight even without motion detection.
- Bluetooth and regular version available.



Specifications

Input Voltage	DC 10-15V	
Input Current	<30mA (Regular-Version)	<50mA (Bluetooth-Version)
Stand-by Power	DC 10V @ < 0.5W	
Control Method	0-10V	
Bluetooth Transmit	25m 170.60ft	
Microwave power	<0.3mW	
Detection Angle	Without Glass Cover (Ceiling Mounted 360 ° Wall Mounted ≤120 °)	
Mounting Height	≤3m (9.84ft)	
Detection Range	Radius: 2-4m 6.56-13.12ft	
Working Temp	-35°C to +70°C	
IP Rating	IP20	

Regular-version Parameter



Control Device	Remote Control #HD06R(Purchase Separately) & Manual Switches	
Detection Area	Remote Control: 25%/50%/75%/100% Manual Switches: 50% 100%	
Hold Time	Remote Control: 5s/30s/1min/3min/5min/10min/20min/30min Manual Switches: 5s/30s/1min/10min	
Daylight Threshold	Remote Control: Disable / 2Lux(0-8) / 10Lux(5-15) / 30Lux(15-45) / 50Lux (25-75) / 80Lux(40-120) / 120Lux(60-180) Manual Switches: Disable/50Lux	
Standby Period	Remote Control: 0s/10s/30s/1min/5min/10min/30min/+∞ Manual Switches: 0s/1min	
Standby Dimming Level	Remote Control: 10%/20%/30%/50% Manual Switches: 10% /20%	

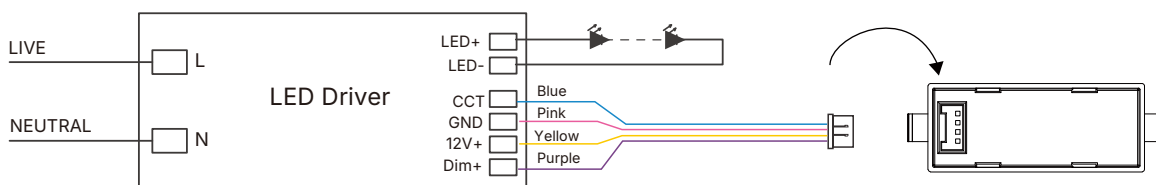
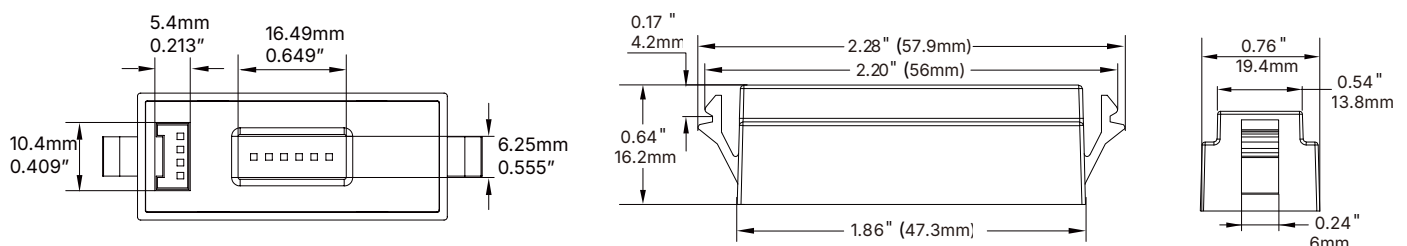
Bluetooth-version Parameter

Control Device	HSE WISE APP
Bluetooth Transmit	30m / 98ft
Radio Frequency	2.4GHz (2402~2480MHz)
Bluetooth Version	5.2
Dim level	Mini Brightness – 100% (The mini value can be set in the zone settings panel)
Detection Area	High / Medium / Low
Max Dim	1%-100% Continuously Adjustable
Hold Time	5S/30S/1min-120min (Mini Hold Time, Adjustment Range 1min)
Stanby Dim Level	1% - 100% (Adjustment Range 1%)
Standby Period	0S/5S/30S/1min - 120min (Adjustment Range 1min) / ∞
Daylight Threshold	Disable/50Lux - 2000Lux (Adjustment Range 50Lux)
CCT Setting	When paired with the HSE-C2 controller, Adjustment can be made via the HSE WISE APP.

Ordering Information

Example: HSE-BSCM3L-5

Brand	Bluetooth	Product type	Sensor type	Series of products	Installation type	Wiring method
HSE	Blank Regular B Bluetooth	S Sensor C CCT	M Microwave	3 Series Code	L Low - level	Terminal connection

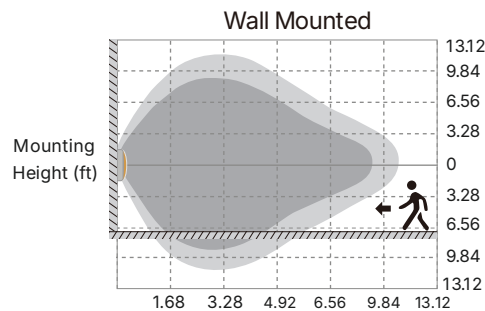
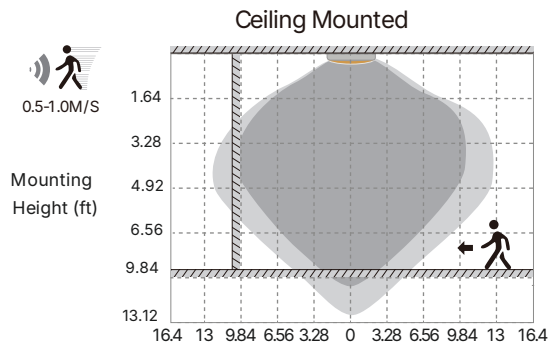
Wiring**DIMENSIONS****Note:** HSE-SCPM3L-5 with a dip switch, HSE-BSCPM3L-5 without a dip switch.

Detection Coverage

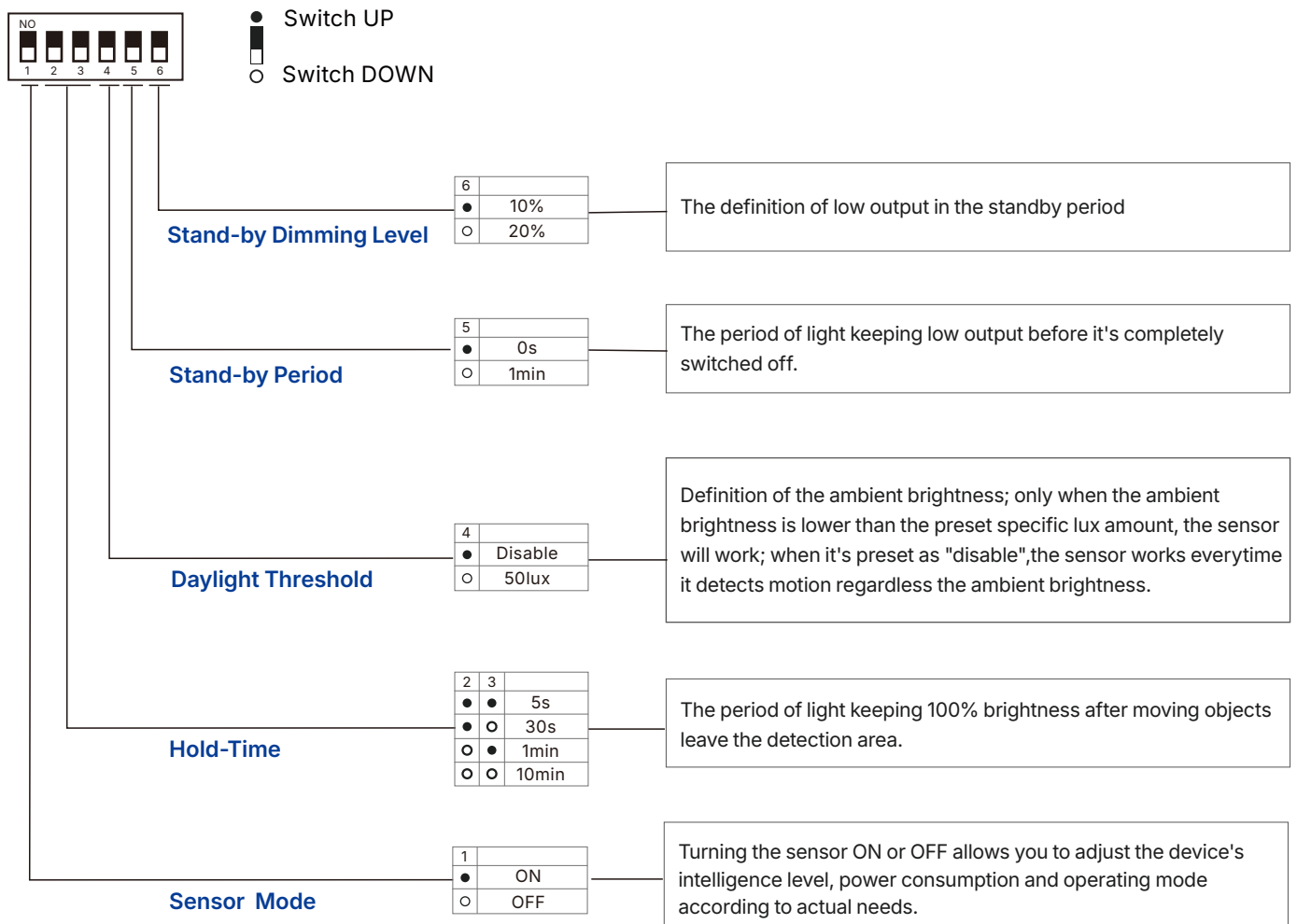
Highest mounting height is 3m (9.84ft)

This figure indicates the maximum distance at the highest mounting height with 100% sensitivity.

Well Detected Area Possibly Detected Area

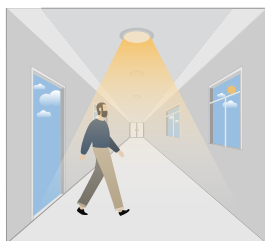


Dial Code Setting

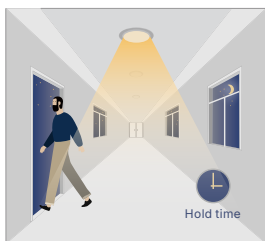


Performance

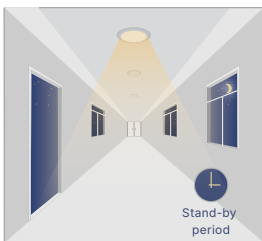
1. With Daylight Disable



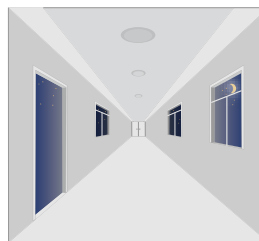
Sensor turns ON light when motion is detected.



Sensor keeps for a hold time period after motion leaves

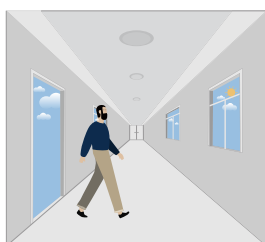


Sensor dims light to standby dimming level after hold time if there is still no motion

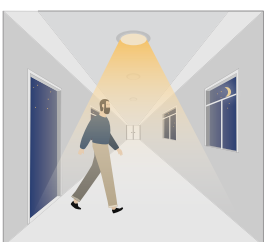


Sensor turns OFF light after standby period

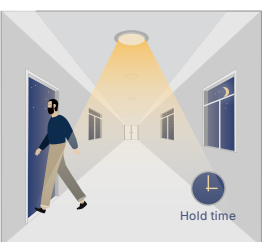
2. With Daylight Threshold



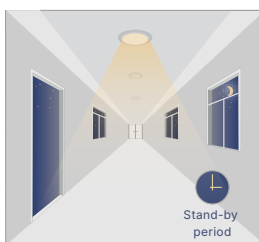
With sufficient daylight, the sensor keeps light OFF even motion gets detected



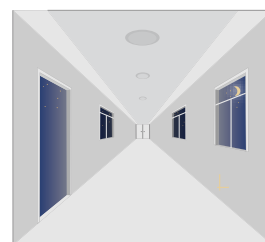
With insufficient daylight, the sensor turns light ON when motion gets detected



After there's no motion detected, the sensor keeps light ON 100% for holdtime.



After holdtime, sensor dims light to standby dimming level for standby period. if the standby period has been set as 0s, sensor turns light OFF automatically after holdtime.



The sensor turns OFF light automatically after the standby period when there's no motion detected.

Factory Setting

Regular-version
1. Detection Area: 100%
2. Hold Time: 5S
3. Daylight Threshold: Disable
4. Standby Period: 0S
5. Standby Dimming Level: 10%

Bluetooth-version	
1. Sensor Mode: ON	5. Standby Dimming Level: 20%
2. Detection Area: High	6. Standby Period: 10min
3. Max Dim: 100%	7. Daylight Mode: OFF
4. Hold Time: 10min	



Attention

1. The sensor should be installed by qualified electrician and ensure power is OFF before installation.
2. Please read the instruction carefully before using the product and keep it well for other users to read any time.
3. We reserve the right to modify any incorrect text, image and technical parameters.
4. Any unauthorized modification is forbidden. Otherwise all guarantees will be immediately invalid.
5. Product could be optimized without prior notice.

Application Notes

1. Suitable for indoor application, half/completely outdoor environment conditions might be captured as moving signals to trigger the sensor.
2. Suitable for ceiling mount installation, adjust sensitivity properly if it's installed on side-wall because it gets more sensitive.
3. Adjust sensitivity properly when the sensor is applied in small/narrow/metal-built/with metal spaces.
4. Microwave sensor can't be placed under/inside metal shell; Microwave module must directly face the detection area with edge lower than light fixture.
5. Keep the sensor away from vibration equipments, air-conditioning outlets, smoke extractors alike conditions to avoid unwanted trigger.
6. Keep the sensor module away from AC input and DC output to avoid high/low frequency signal interference.
7. At least 2m/6.5ft distance between microwave sensors; 1.5m/4.9ft between the sensor and other wireless devices such as routers to avoid possible radio interference.
8. Daylight testing delivered in bright day without shadow or specially designed lampshade or lens.
9. Dimming performance differs when connected to different drivers; If the driver can't completely turn OFF, sensor can't either.
10. Input power voltage must be stable with float less than 10%.
11. The first time powered ON sensor, light will be ON 100% . Conventional units feature a 10s warm-up, while Bluetooth models require no warm-up. The light then automatically dims to standby level or powers off.
12. Distance detection is delivered by testing person about 165cm in open area as reference, the result differs by size and speed of moving objects, mounting height and real-life situation.

App Download

