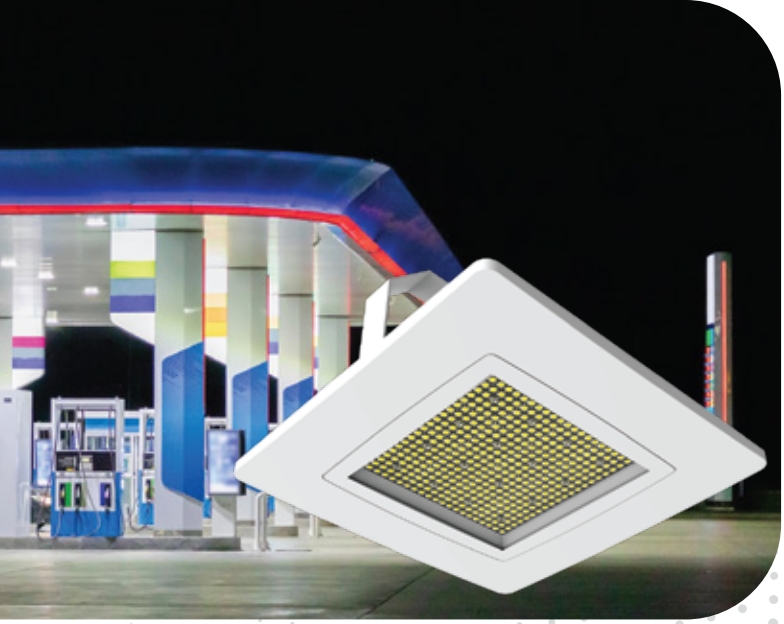


ENER-J®

Smart Home Living

Pro LED Canopy Lights

with 140 Lm/W & Dimmable Lifud Driver, IP65 & IK08, 5700K, 5 Years Warranty

100W & 150W

5700K

140 Lm/W

90°

IP 65

IK08 PROTECTION

Dimmable

T385	100W Canopy Lights
T386	150W Canopy Lights
T387	MerrytekMicrowave Sensors for T385 & T386 Canopy Lights
T388	Remote for Merrytek Microwave Sensors for (T387)

Enhance your petrol forecourt with our 100W Premium Canopy Lights. Delivering 140 lumens per watt with a high-quality Lifud driver, these lights offer exceptional brightness, energy efficiency, and durability. Perfect for creating a welcoming and safe environment, they come with recessed mounting and surface bracket installation options.

The 24-hour nature of many petrol forecourts makes providing high-quality lighting a necessity to create a welcoming and safe environment for visitors. Exceptional lighting can draw drivers in from the road to stop and re-fuel, take a break, or make a purchase. Switching to LED lighting presents an attractive opportunity for any fuel provider. Our LED canopy lights have been specially designed for installation at petrol stations, delivering significant improvements in forecourt lighting quality, substantial energy savings of up to 50%, and improved reliability across the UK.

Proven to vastly improve forecourt visibility, our LED canopy lighting utilizes the latest in LED technology to ensure light is distributed exactly where it is needed.

Features:

- **High Brightness:** Delivers 140 lumens per watt, ensuring exceptional illumination.
- **Durable Build:** IP65 and IK08 rated for weather and impact resistance.
- **Dimmable Driver:** Equipped with a Lifud driver, dimmable via sensor (not included).
- **Versatile Installation:** Includes recessed mounting kit and surface bracket.
- **Energy Efficient:** Provides up to 50% energy savings compared to traditional lighting.
- The aluminum heat sink hole design on the back enhances the air convection area and achieves high-quality heat dissipation
- Support plug-and-play sensor optional, provide protection for intelligent lamps
- Features of low glare, uniform light color and high color rendering, matching a variety of professional light distribution, suitable for a variety of applications
- Sealed, dustproof and waterproof, effectively facing outdoor weather

TYPES OF APPLICATION

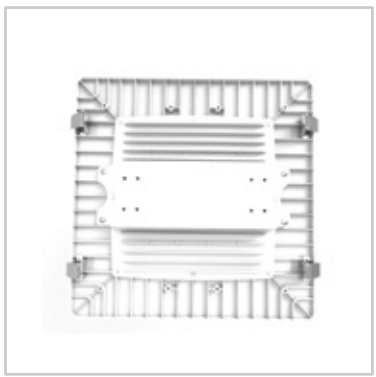
- GAS STATION
- LEISURE AREA
- CAR PARKS
- RAILWAY STATIONS & METROS

GAS STATION

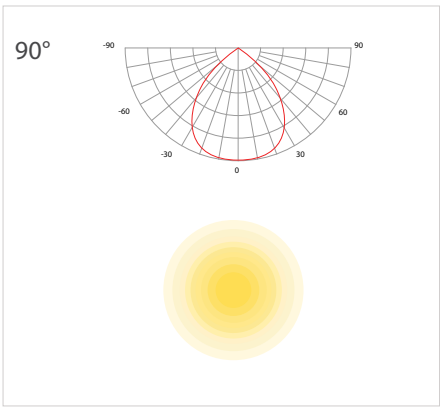
LEISURE AREA

CAR PARKS


RAILWAY STATIONS & METROS



LIGHT DISTRIBUTIONS



Technical Parameters

▶ HOUSING AND FINISH

Housing	Aluminium
Optic	Polycarbonate
Protector	Glass
Glass	Tempered glass
Respirator	Yes
Housing finish	Electrostatic polyester powder coating
Standard colour(s)	RAL 1127 white
Tightness level	IP 66
Impact resistance	IK 07

▶ OPERATING CONDITIONS

Operating temperature range(Ta)	-30°C to + 45°C
Operating Humidity	10-90%RH
Mounting Option	Spring mount, Ceiling mount, bracket mount, Embedded installation
Warranty	5 years

▶ PERFORMANCE

Power	100W/150W
Efficacy	140lm/W
Power Efficiency	≥86%
Start Time	≤0.2S

▶ ELECTRICAL INFORMATION

Electrical class	Class I EU
Nominal voltage	200-240V | 50/60Hz
Power factor (at full load)	0.9
Surge protection options (kV)	6KV-Line-Line 6KV-Line-Earth
Electromagnetic compatibility (EMC)	EN 55015:2019/A11:2020, EN 61000 3-2:2019, EN 61000-3-3:2013, EN 61547:2009, EN 62493:2015
Control protocol(s)	1-10V, DALI2 (optional)
Sensor	Motion sensor (optional)
Total Harmonic Distortion(THD)	IEC 61000-3-2 Class C <20%
Driver Type	Constant current(CC)
Filcker	No

For fixed Class 1 luminaires, overvoltage protective devices which comply with IEC 61643-11 shall be disconnected from the circuit.

withstand voltage	1.5KV 60S 10mA

*Lamp switch must control L line or control L and N lines.

▶ OPTICAL INFORMATION

LED Type	SMD3030
Beam Angle	90°
Recommended installation height	4m to 15m
Color Tolerance	Ra80 ≤5

LED colour temperature	5700K
Colour rendering index (CRI)	CRI>80 optional
Upward Light Output Ratio (ULOR)	0%

*Ra measurement tolerance is ±2.

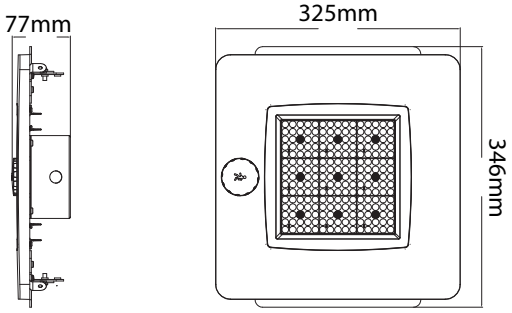
▶ LIFETIME OF THE LEDS @ TA 25°C

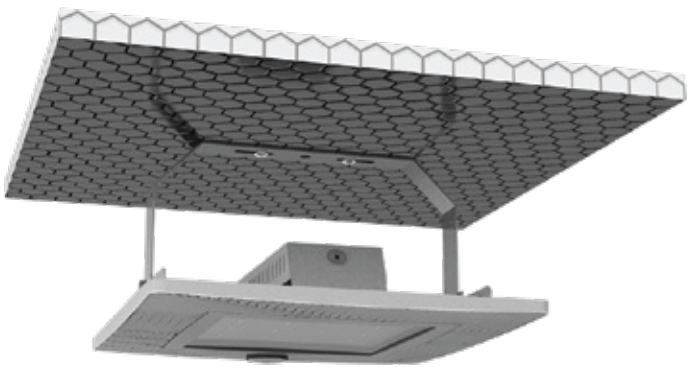
All configurations

L70B50	>100,000h
L80B20	>50,000h
L90B10	>30,000h
Switching Cycles	>100,000 times

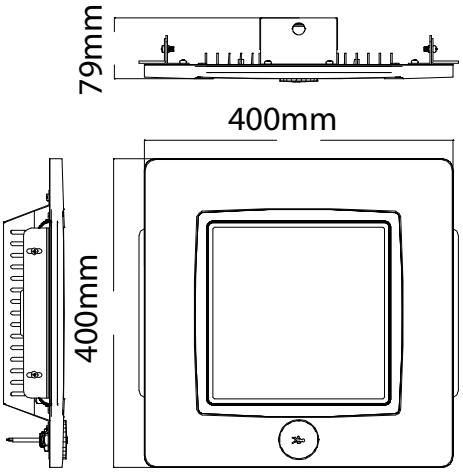
▶ Dimension

100W





150W



MerrytekMicrowave Sensors (Plug & Play) for T385 & T386 Canopy Lights

Features

- **Zhaga Book 18 Compatibility:** Plug & Play design that perfectly matches Zhaga Book 18 base for seamless integration.
- **Optimal Installation Height:** Functions efficiently up to 15 meters, ideal for most warehouse environments.
- **Safe for Humans:** Features low transmitting power, ensuring no harm to human health.
- **Advanced Detection Modes:** Newly patented design with high sensitivity and interference immunity detection modes, perfect for areas with many metal reflective surfaces.
- **Environmentally Robust:** Unaffected by temperature, humidity, noise, dust, and other environmental factors, ensuring consistent performance.

▶ Input

Rated voltage	11-15VDC
Working current	25±3mA
Ripple voltage	<100mVp-p

▶ Output

Output signal	0 -10VDC dimming signal

▶ Sensor parameters

Working frequency	5.8GHz ±75MHz, ISM band			
ransmitting power	3mW Max			
Daylight priority	Switch ON	5Lux/15Lux/30Lux/50Lux	100Lux	150Lux
	Switch OFF	150Lux	200Lux	300Lux
Detection range (radius)	Ceiling installation 12m high: 0.3m/s≥4m, 1m/s≥3m; Test conditions : the product is set to 100% sensitivity.			
Installation height	12m (15m Max)			
3dB beam angle	82°@XZ plane			
	95°@YZ plane			

▶ Environment

Working temperature	-25~60℃
Storage temperaturet	-40℃~80℃, humidity ≤85% (non-condensing)

▶ Certification Standards

Certified	RED
Environmental requirements	Comply with RoHS 2.0 , Reach requirement
IP Rating	IP65

▶ Other

Wiring	Zhaga Book 18 connector
Installation requirements	built-in installation
Packaging requirements	Clapboard + Carton(K=A)
Net weight	40±3g
Lifetime	5 years warranty @Ta

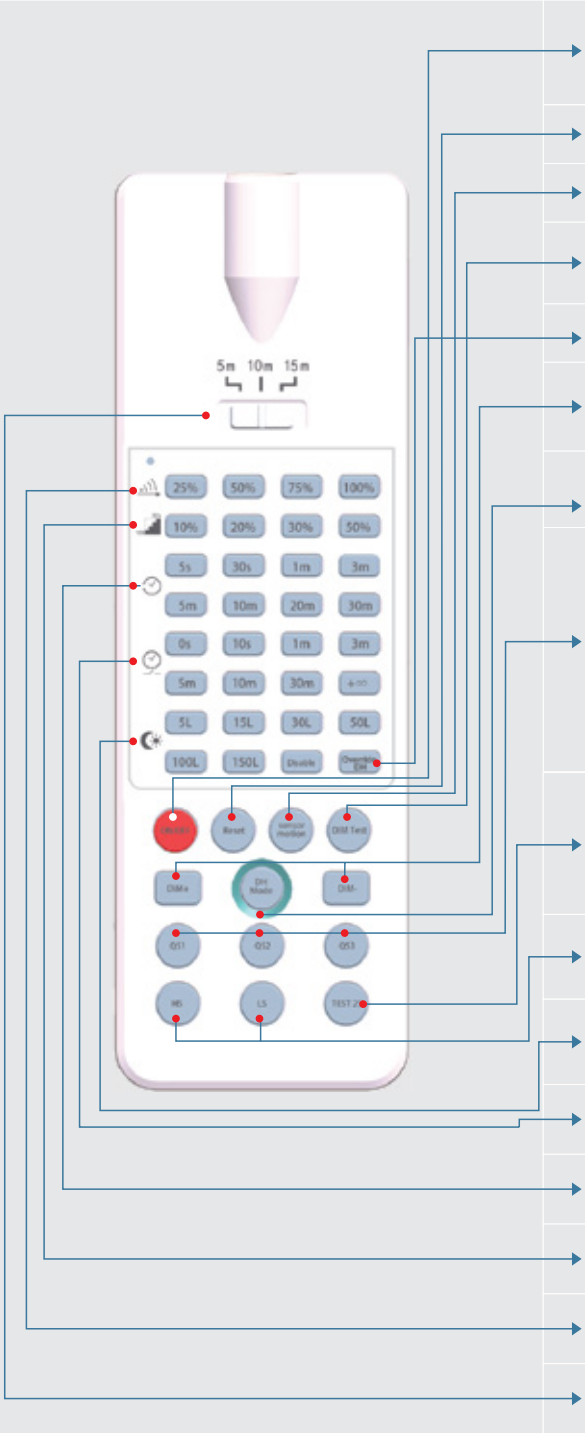
Remote for Merrytek Microwave Sensors (T387)

Description

Effortlessly control your Merrytek Microwave Sensors with the T387 Remote. This versatile remote can manage up to 20 devices within a 15-meter range, providing you with complete flexibility and convenience. Its unique infrared transmitting device ensures accurate and responsive control, making it an essential tool for optimizing your sensor settings.

Features

- **Wide Control Range:** One remote can control up to 20 devices within a 15-meter radius.
- **Infrared Transmitting Device:** Unique design for reliable and precise control (see image for details).
- **Customizable Daylight Sensor:** Set daylight sensor levels at 5Lux, 15Lux, 30Lux, 50Lux, 100Lux, 150Lux, or disable it entirely.
- **Adjustable Stand-by Period:** Options include 0s, 10s, 1min, 3min, 5min, 10min, 30min, or +∞ for flexibility in operation
- **Variable Hold Time:** Set hold times at 5s, 30s, 1min, 3min, 5min, 10min, 20min, or 30min to suit your needs.
- **Stand-by Dim Level:** Customize the stand-by dim level to 10%, 20%, 30%, or 50%.
- **Detection Area Settings:** Adjust the detection area to 25%, 50%, 75%, or 100% for optimal performance.

Remote Control Setting	Button	Remarks
	ON/OFF	Press the "ON/OFF" button, the load light enters the normal on/off mode, and the sensing function is disabled. In the normal on/off mode, the "DIM+/DIM-" function can be used to maintain the load light brightness after powering on again. In the normal on mode, the load light enter ON after powering on again. If the load light is OFF, the load light is ON for 2 seconds and then enter OFF after powering on again.
	Reset	Press “Reset" button, all parameters are same as setting of DIP switch or factory settings. Note: Only the product has DIP switch, it will revert to the current DIP setting.
	Sensor motion	Press "Sensor motion" button, the light quits from the normal on/off mode, and the sensor starts to work. (The latest setting stays in validity)
	DIM Test	Press "DIM Test" button, the 0-10V dimming works to test whether the 1-10Vdc dimming ports are connected properly. After 2s, it returns to the latest setting automatically.
	Override DH	Long Press 3s "Override DH" button to exit the Daylight priority mode or Daylight harvesting mode, and then enter the Daylight Sensor mode. (The latest setting stays in validity)
	DIM + DIM -	Short press "DIM+/DIM-" button to set occupancy light level, the brightness of the load light adjusts at 2% per unit. Long press "DIM+/DIM-" button to set occupancy light level, the brightness of the load light adjusts at 1% per unit. Dimming range: 10%-100%. (apply for normal on mode and sensor with daylight harvesting function)
	DH Mode	Long Press 3s to enter the Daylight priority function or Daylight harvesting function. Note: Short press "Disable" button will exit the Daylight priority mode and the Daylight Sensor is uncontrolled.
	QS1 QS2 QS3	<table><tr><th>Scence Options</th><th>Dection Area</th><th>Hold Time</th><th>Stand-by period</th><th>Stand-by dim level</th><th>Daylight Sensor</th><th>Induction way</th></tr><tr><td>QS1</td><td>100%</td><td>5min</td><td>10min</td><td>10%</td><td>30Lux</td><td>HS</td></tr><tr><td>QS2</td><td>100%</td><td>10min</td><td>30min</td><td>10%</td><td>Disable</td><td>HS</td></tr><tr><td>QS3</td><td>100%</td><td>20min</td><td>30min</td><td>10%</td><td>Disable</td><td>HS</td></tr></table> Note: The sensor parameters can be adjusted by pressing the corresponding button. When user press any button to change the sensor parameters, the last setting prevails. If the sensor doesn't have the function of the above parameters, that parameter is invalid. (Stand-by period and Stand-by DIM Level are not applicable to ON-OFF Sensor. Induction way is not applicable to low-mount sensor)
	TEST 2S	Press the "TEST 2s" botton can enter the test mode anytime. At test mode, the sensor parameters as below: Detection Area is 100%, Hold Time is 2s, Stand-by Dim Level is 10%, Stand-by Period is 0s, Daylight sensor is disabled. This function only for testing. Quit the test mode by pressing "RESET" or any other function buttons. This mode has no memory function. After powering on again, the parameters are restored to the last setting. Note: If the sensor have the wireless networking function, the botton provides the functions is entering the distribution network mode.
	HS LS	Press "HS" botton to set the detection area to high sensitivity. Press "LS" botton to set the detection area to low sensitivity. The Induction mode is adjusted at the setting detection area. Note: This button is invalid for low-mount sensor.
		Daylight Sensor Set up Daylight Sensor: 5Lux/15Lux/30Lux/50Lux/100Lux/150Lux/Disable
		Stand-by period Set up Stand-by period: 0s/10s/1min/3min/5min/10min/30min/+∞ Note: Stand-by period is not applicable to ON-OFF Sensor.
		Hold time Set up Hold time: 5s/30s/1min/3min/5min/10min/20min/30min
	50% 10%	Stand-by dim level Set up stand-by dim level: 10%/20%/30%/50% Note: Stand-by DIM Level is not applicable to ON-OFF Sensor.
		Detection Area Set up Detection Area: 25%/50%/75%/100%
	5m 10m 15m	Remote Distance Toggle bottom can set the remote distance of remote control and sensor.

Remote controland code setting conversion

1.DIP switch setting convert to remote control

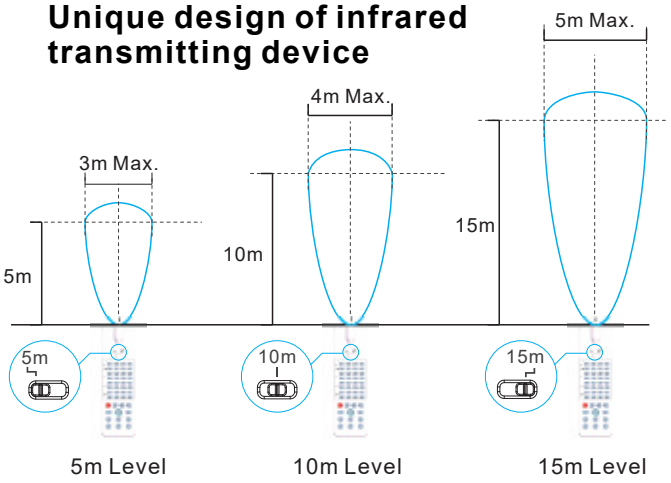
Press any bottom except "RESET" on the remote control, and the sensor settings convert to the function currently selected by the remote control. (No function button settings invalid)

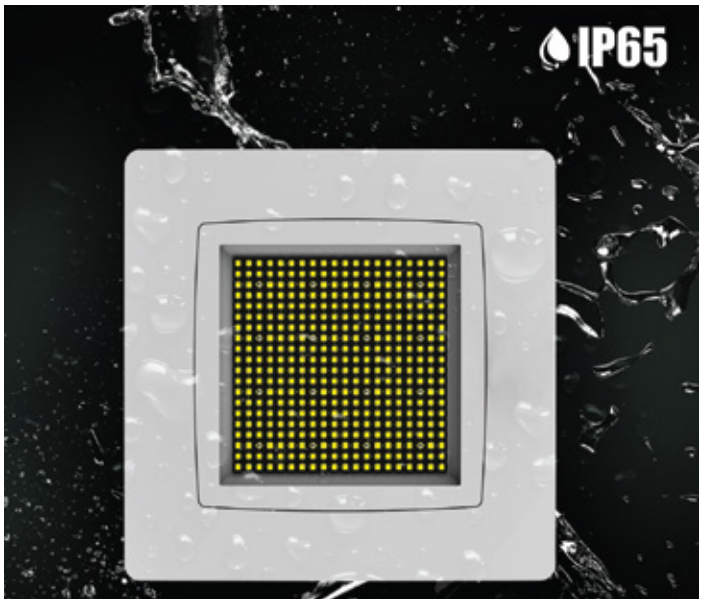
2.remote control convert to DIP switch setting

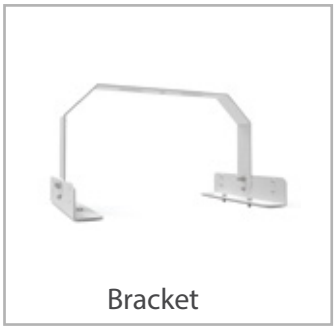
a.Press the "RESET" button on the remote control, and all settings return to the DIP switch settings of the sensor.

b.Turn off the power, toggle any DIP switch, connect to the power, and all settings return to the DIP switch settings when supply power again.

Unique design of infrared transmitting device







Bracket for the Surface Installation is included

Stuck? Confused?

Contact our Technical Support team on:

T: +44 (0)1291 446 105 E: support@ener-j.co.uk

Lines are open Mon - Fri (8am to 4pm)