

Sensor LED Dimmer

Model No.: E1-L

Multiple Induction Head/1 Channel Constant Voltage/8A output

Features

- Input connect with a variety of induction sensor head, output connected directly to the low voltage LED strip.
- Max 8A output current, max output power 384W@48V.
- PIR motion sensor: when people or objects enter the sensitive field, the light turn on; when these exit the sensitive field, the light turn off after 30 seconds.
- Touch sensor: short touch to turn on or turn off light; long touch to dimming up or down.
- Door sensor: when the door open, or no obstacle ahead, the light turn on gradually; when the door close, or obstacle ahead, the light turn off gradually.
- Hand sweep sensor: when hand sweep, the light turn on gradually; when hand sweep again, the light turn off gradually.
- Microwave motion detector: turn on the light upon detection of motion, and turn off after a pre-selected hold time when there is no movement, without dimming, with dimming and two-step dimming function respectively.

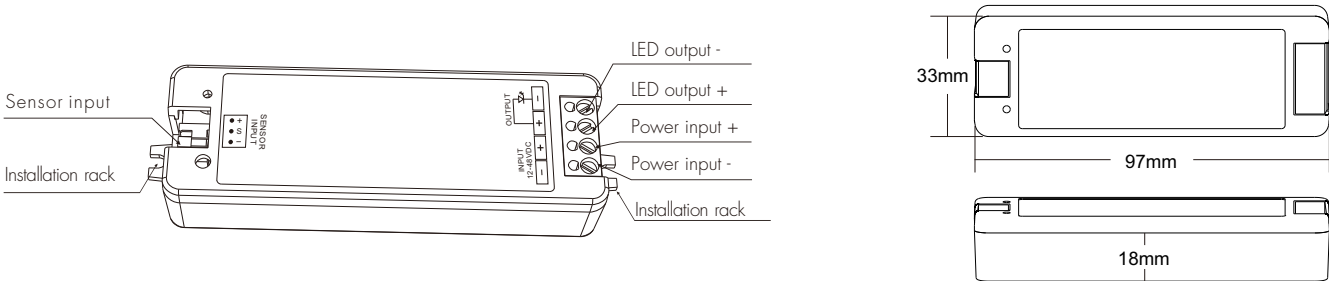


CE RoHS 

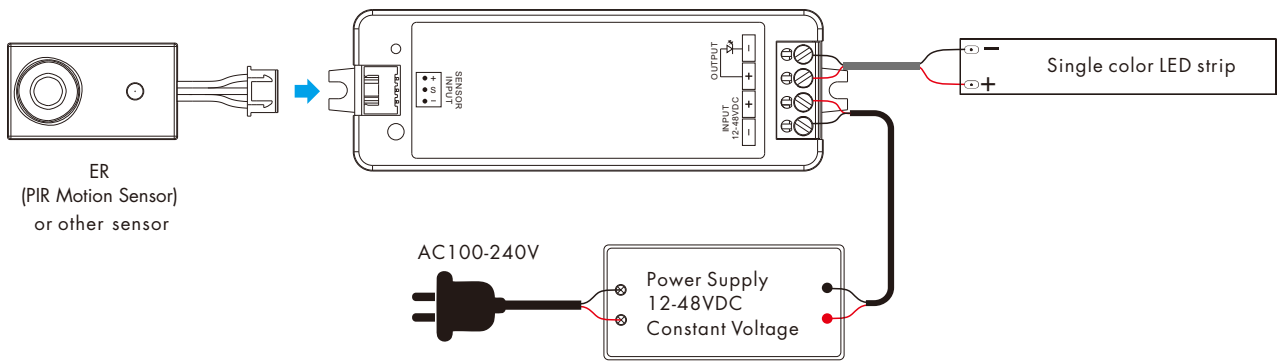
Technical Parameters

Input and Output		Safety and EMC		Environment	
Input voltage	12-48VDC	EMC standard (EMC)	ETSI EN 301 489-1 V2.2.3	Operation temperature	Ta: -30°C ~ +55°C
Input current	8.1A		ETSI EN 301 489-17 V3.2.4	Case temperature (Max.)	Tc: +85 °C
Output voltage	12-48VDC	Safety standard(LVD)	EN 62368-1:2020+A11:2020	IP rating	IP20
Output current	8A	Certification	CE, EMC, LVD	Package	
Output power	96W/192W/288W/384W (12V/24V/36V/48V)	Warranty		Size	L120x W43 x H27mm
Output type	Constant voltage	Warranty	5 years	Gross weight	0.052kg


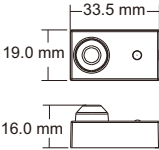

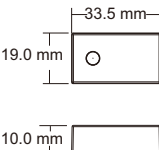

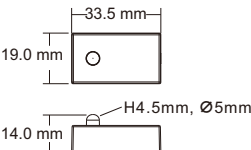

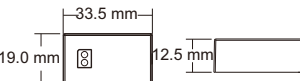

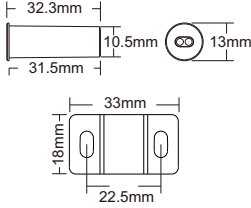

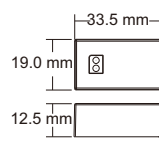

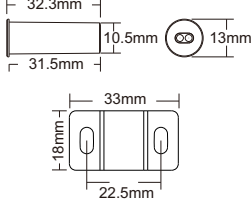

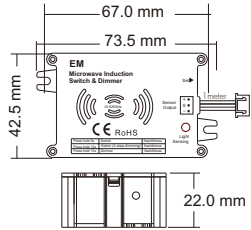
Mechanical Structures and Installations



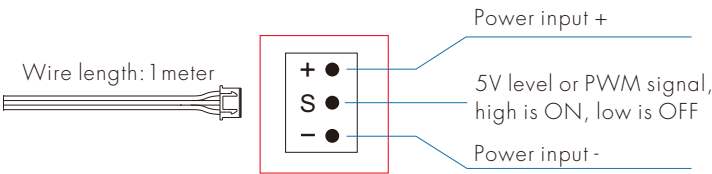
Wiring Diagram



Available sensor head

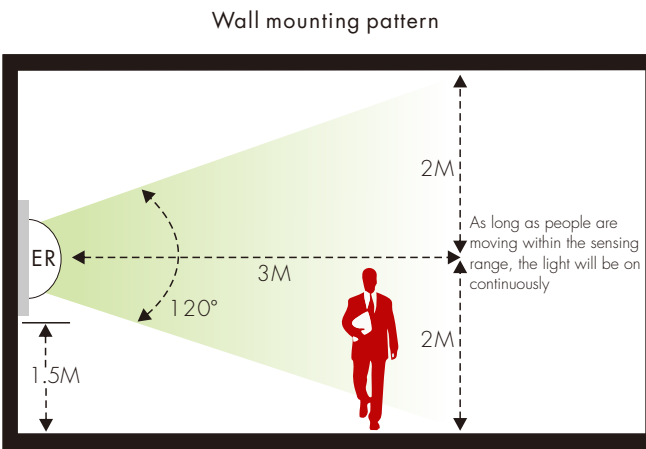
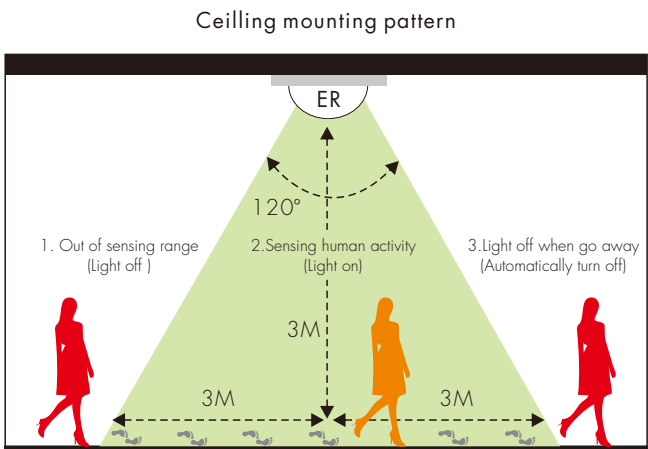
Model and Product name	Features	Product picture	Size	Sensor data
ER PIR Motion Sensor	When people or objects enter the sensitive field, the light turn on; when these exit the sensitive field, the light turn off after 30 seconds.			Sensitive field: $\leq 3m$ Sensitivity angle: 120
EW Wood Touch Sensor	The medium can be wood, glass or plastic. Short touch the sensing area to turn on or turn off light; long touch the sensing area to dimming up or down.			Dimming range: 0-100% PWM Frequency: 2KHz Detective distance: $\leq 5cm$
EC Touch Sensor	Short touch the LED to turn on or turn off light; long touch the LED to dimming up or down.			Dimming range: 0-100% PWM Frequency: 128Hz
ED Door Sensor	When the door open, or no obstacle ahead, the light turn on gradually; when the door close, or obstacle ahead, the light turn off gradually.			Detective distance: $\leq 10cm$ Detective angle: 15-30
ED(C) Door Sensor	When the door open, or no obstacle ahead, the light turn on gradually; when the door close, or obstacle ahead, the light turn off gradually.			Sensitive field: $\leq 8cm$ Sensitive angle: 15-30
EB Hand Sweep Sensor	When hand sweep, the light turn on gradually; when hand sweep again, the light turn off gradually.			Detective distance: $\leq 8cm$ Detective angle: 15-30
EB(C) Hand Sweep Sensor	When the door open, or no obstacle ahead, the light turn on gradually; when the door close, or obstacle ahead, the light turn off gradually.			Sensitive field: $\leq 10cm$ Sensitive angle: 15-30
EM Microwave motion Sensor	Turns on the light upon detection of motion, and turns off after a pre-selected hold time when there is no movement.			Detection zone: Max.(DxH) 20 x 15m Detection angle: 150° (wall installation), 360° (ceiling installation) Holdtime: 10s/30s/90s/3min 10min/20min/30min

Sensor wire define



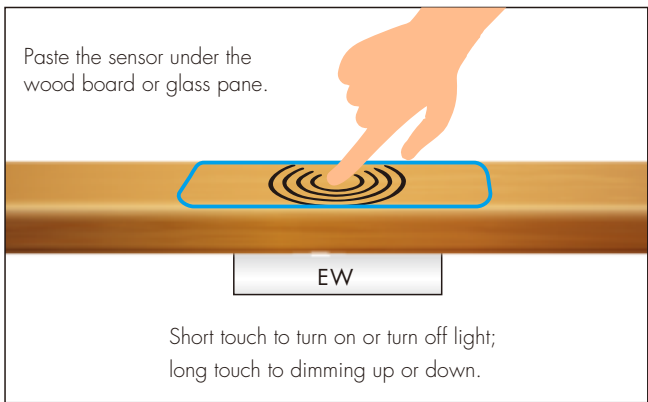
Induction sensor head installation and application

ER: PIR Motion Sensor

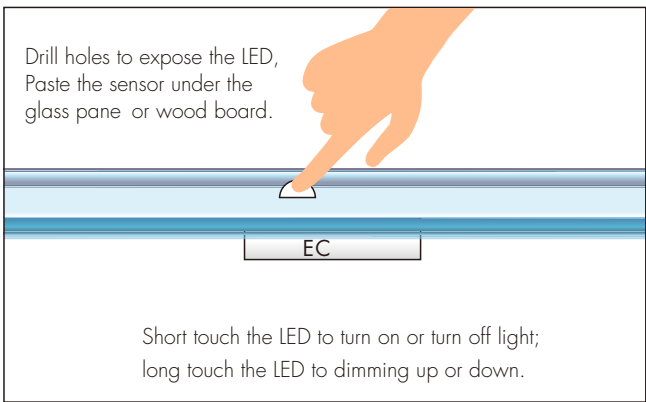


When installing, please pay attention to choosing a proper position and angle, otherwise the sensing distance will be very close or the sensing will be insensitive

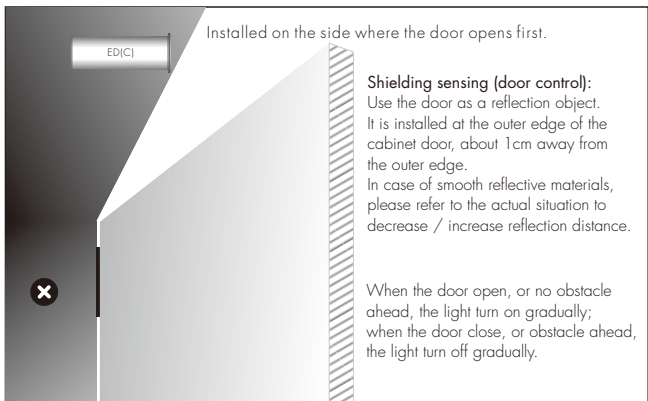
EW: Wood Touch Sensor



EC: Touch Sensor



ED / ED(C): Door Sensor



EB / EB(C): Hand Sweep Sensor

