

Microwave Motion Sensor



ON-OFF Function / Smart Version

Presentation

EUC030S is an innovative and active motion detector with HF system 5.8GHz. Motion can be detected through plastic, glass and thin non-metal materials. The high quality relay is particularly suitable for commercial use with switching power up to 400W for LEDs and fluorescent lamps and up to 800W for incandescent lamps.

Features

- ▶ Automatic switching based on motion and light level
- ▶ Zero-crossing point operation helps protect the sensor against in-rush current
- ▶ Super compact size makes it suitable to fix within most luminaires
- ▶ 4-pole press-in terminal (L, N, N, L'), easy assembly
- ▶ Detection area, time delay and daylight threshold can be precisely set via DIP switch
- ▶ Wide detection area, range up to 12m in diameter



Item No.: EUC030S

Parameter

Operating voltage	220-240VACm, 50/60Hz	Hold time	5s/30s/90s/3min/20min/30min
Rated load	400W(inductive), 800W(resistive)	Daylight sensor	2lux/10lux/25lux/50lux/Disable
HF system	5.8GHz±75MHz	Mounting height	6m Max.
Transmitting power	<0.5mW	Motion detection	0.5~3m/s
Power consumption	≤0.5W	Detection angle	150°(wall installation) 360°(ceiling installation)
Detection zone	(D*H)12m*6m	Operating temperature	-20~60 °C
Detection sensitivity	10%/25%/50%/75%/100%	IP rating	IP20



Item No.: EUC034S

Parameter

Operating voltage	200-240VAC , 50/60Hz	Daylight sensor	5lux/15lux/50lux/Disable
Rated load	200W(inductive) , 400W(resistive)	Cut size	80mm
HF system	5.8GHz±75MHz	Mounting height	4m Max.
Transmitting power	< 0.5mW	Motion detection	0.5~3m/s
Power consumption	≤0.8W(Standby), <1W(operation)	Detection angle	150°(wall installation) 360° (ceiling installation)
Detection zone	(D*H)10m*4m	Operating temperature	-35~60°C
Mode	High / Normal	IP rating	IP20
Hold time	CH1: 5s/90s/3min/10min Ch2: 5s/5min/10min/20min		



Two-output Occupancy Sensor

Presentation

EUC034S is an innovative and active motion detector with HF system 5.8GHz. It is always functioning regardless of the background temperature. It supplies individual two outputs to control different loads, suitable for bathroom or any other place where requires different ON-OFF control. Three torsion springs support flush mounting and concealed installation.

Features

- ▶ Two individual controls for lighting and ventilator, applicable to bathroom
- ▶ Advanced microwave technology, can detect slight motions
- ▶ Independent sensor for flush mounting and concealed installation
- ▶ Zero-crossing point operation helps protect the sensor against in-rush current
- ▶ Detection area, hold time and daylight threshold can be precisely set by DIP switch

ON-OFF Function / Economical Version

Presentation

EUC008S E is an innovative and active motion detector with HF system 5.8GHz. Motion can be detected through plastic, glass and thin non-metal materials. The sensor supplies a simple energy-saving solution to use light only when and where you need it. It automatically switches on/off light based on motion and ambient light level. Can control all kinds of lamps, for example, halogen, fluorescent and LED lights. Compact size and small casing, suitable to fix within most luminaires. 4-pole press-in terminal (L, N, N, L'), very easy to install.

Features

- ▶ Automatic switching based on motion and light level
- ▶ Zero-crossing point operation helps protect the sensor against in-rush current
- ▶ Compact size makes it suitable to fix within most luminaires
- ▶ 4-pole press-in terminal (L, N, N, L'), easy assembly
- ▶ Detection area, time delay and daylight threshold can be precisely set via DIP switch
- ▶ Wide detection area, range up to 16m in diameter



Item No.: EUC008S E

Parameter

Operating voltage	220-240VAC , 50Hz	Hold time	5s/30s/90s/3min/20min/30min
Rated load	400W(inductive), 800W(resistive)	Daylight sensor	2lux/10lux/25lux/50lux/Disable
HF system	5.8GHz±75MHz	Mounting height	6m Max.
Transmitting power	<0.5mW	Motion detection	0.5~3m/s
Power consumption	≤0.5W(Standby), <1W(operation)	Detection angle	150°(wall installation) 360°(ceiling installation)
Detection zone	(D*H)12m*6m	Operating temperature	-20~60 °C
Detection sensitivity	10%/25%/50%/75%/100%	IP rating	IP20

IP65 ON/OFF Function Sensor For Flood Light

Presentation

EUC042S is an innovative and active motion detector with HF system 5.8GHz. Motion can be detected through plastic, glass and thin non-metal materials. Because of high quality microwave motion sensor and programming, the product show high anti-interference capability on breeze and light rain.

Features

- ▶ With 5.8GHz microwave technology, stable detection performance and long life time
- ▶ Strong anti-interference capacity for raindrop and breeze, suitable for outdoor use
- ▶ Water proof sensor with IP65 rating
- ▶ Long detection area up to 10m with wall mounting
- ▶ Compact housing design, can be applicable to super thin flood light
- ▶ Automatic switching based on motion and ambient light
- ▶ Zero-crossing point operation helps protect the sensor against in-rush current
- ▶ Detection area, hold time can be set via DIP switches easily



Item No.: EUC042S

Parameter

Operating voltage	220-240VAC, 50/60Hz	Hold time	5s/90s/3min/20min
Rated load	200W Max	Mounting height	6m Max.
HF system	5.8GHz±75MHz	Motion detection	0.5~3m/s
Transmitting power	<0.5mW	Detection angle	120°(wall installation) 360°(ceiling installation)
Power consumption	≤0.5W	Operating temperature	-35~70 C
Detection zone	(D*H)10m*6m	IP rating	IP65
Detection sensitivity	50%/100%		



Item No.: EUC032S

Parameter

Operating voltage	200-240VAC, 50/60Hz	Daylight sensor	2lux/10lux/25lux/50lux/Disable
Rated load	400W(inductive), 800W (resistive)	Mounting height	6m Max.
HF system	5.8GHz±75MHz, ISM wave band	Motion detection	0.5~3m/s
Transmitting power	<0.5mW	Detection angle	50°(wall installation)360°(ceiling installation)
Power consumption	≤0.5W	Operating temperature	-30~70 C
Detection zone	Max.(D*H)16m*6m	IP rating	IP65
Detection sensitivity	10%/25%/50%/75%/100%		
Hold time	5s/30s/90s/3min/20min/30min		



North America Version / ON-OFF Function

Presentation

EUC602S is an innovative and active motion detector with HF system 5.8GHz. Motion can be detected through plastic, glass and thin non-metal materials. As it uses the third generation Merrytek technology, normal 5.8GHz microwave module can easily reach high mounting high up to 12m and long detection area 8-9m.

Features

- ▶ Automatic switching based on motion and light level
- ▶ Zero-crossing point operation helps protect the sensor against in-rush current
- ▶ sensor against in-rush current
- ▶ Super Compact size makes it suitable to fix within most luminaires
- ▶ 4-pole press-in terminal (L, N, N, L'), easy assembly
- ▶ Detection area, time delay and daylight threshold can be precisely set via DIP switch



Item No.: EUC602S

Parameter

Operating voltage	120-277VAC, 50/60Hz	Hold time	5s/30s/90s/3min/20min/30min
Rated load	120V@400W,240@800W,277V@1000W	Daylight sensor	5lux/15lux/30lux/50lux/100lux/150lux/Disable
HF system	5.8GHz±75MHz	Mounting height	15m Max.
Transmitting power	<0.5mW	Motion detection	0.5~3m/s
Power consumption	≤0.5W(standby)	Detection angle	50°(wall installation) 360°(ceiling installation)
Detection zone	Max.(D*H)20m*15m	Operating temperature	-20~60 C
Detection sensitivity	25%/50%/75%/100%	IP rating	IP20



ON-OFF Function / Enhanced Detection Zone

Presentation

EUC046S is an innovative and active motion detector with HF system 5.8GHz. Motion can be detected through plastic, glass and thin non-metal materials. As it uses the third generation Merrytek technology, normal 5.8GHz microwave module can easily reach high mounting high up to 12m and long detection area 8-9m in radius.

Features

- ▶ Automatic switching based on motion and light level
- ▶ Zero-crossing point operation helps protect the sensor against in-rush current
- ▶ Super Compact size makes it suitable to fix within most luminaires
- ▶ 4-pole press-in terminal (L, N, N, L'), easy assembly
- ▶ Detection area, time delay and daylight threshold can be precisely set via DIP switch
- ▶ Wide detection area, range up to 20m in diameter
- ▶ Support higher mounting height 15m Max



Item No.: EUC046S

Parameter

Operating voltage	220-240VAC, 50/60Hz	Hold time	5s/30s/90s/3min/20min/30min
Rated load	400W(inductive), 800W (resistive)	Daylight sensor	5lux/15lux/30lux/50lux/100lux/Disable
HF system	5.8GHz±75MHz	Mounting height	15m Max.
Transmitting power	<0.5mW	Motion detection	0.5~3m/s
Power consumption	≤0.5W	Detection angle	150°(wall installation) 360°(ceiling installation)
Detection zone	Max. (D*H)20m*15m	Operating temperature	-20~60 C
Detection sensitivity	25%/50%/75%/100%	IP rating	IP20



Dimming Function / Cluster-control Version

Presentation

EUC003V/C is an innovative and active motion detector with HF system 5.8GHz. Motion can be detected through plastic, glass and thin non-metal materials. Basically, EUC003V/C has the same technical parameters and function as EUC003V, with an extra function, clustercontrol.

Features

- ▶ Particularly suitable for cluster-control
- ▶ Built-in daylight sensor
- ▶ 1-10V interface can match up with Merrytek stand-alone daylight sensor EUS01 and achieve daylight harvesting
- ▶ Compact size makes it suitable to fix within most luminaires
- ▶ Detection area, time delay and daylight threshold can be precisely set via DIP switch
- ▶ Wide detection area, range up to 16m in diameter



Item No.: EUC003V/C

Parameter

Operating voltage	200-240VAC, 50/60Hz	Daylight sensor	5lux/10lux/30lux/50lux/Disable
Rated load	800W(inductive), 1200W(resistive)	Stand-by period	5s/5min/10min/30min/1h/Disable
HF system	5.8GHz±75MHz	Stand-by dimming level	10%/20%/30%/50%
Transmitting power	< 0.5mW	Mounting height	10m Max.
Power consumption	≤ 0.5W(standby), <1W(operation)	Motion detection	0.5~3m/s
Detection zone Max.	(D*H)16m*10m	Detection angle	150°(wall installation), 360°(ceiling installation)
Detection sensitivity	10%/25%/50%/75%/100%	Operating temperature	-30~70 C
Hold time	5s/30s/90s/3min/20min/30min	IP rating	IP20

Dimming Function

Presentation

The sensors allow energy saving without compromising comfort. When used in combination with 1-10V dimmable LED drivers or ballasts, they can achieve 3-step dimming function, which is perfect for use in some areas that requires a light change notice before totally switch off.

Features

- ▶ Unique split design makes it suitable to fix within lamps which have limited space
- ▶ Automatic dimming when used in combination with 1-10V dimmable LED drivers or ballasts
- ▶ Built-in adjustable daylight sensor
- ▶ 1-10V interface can match up with Merrytek stand-alone daylight sensor MS01 and achieve daylight harvesting
- ▶ 4-pole press-in terminal (L, N, N, L'), easy assembly
- ▶ Compact size makes it suitable to fix within most luminaires
- ▶ Detection area, time delay and daylight threshold can be precisely set via DIP switch



Item No.: EUC003V/D

Parameter

Operating voltage	200-240VAC, 50/60Hz	Daylight sensor	5lux/10lux/30lux/50lux/Disable
Rated load	800W(inductive), 1200W(resistive)	Stand-by period	5s/5min/10min/30min/1h/Disable
HF system	5.8GHz±75MHz, ISM wave band	Stand-by dimming level	10%/20%/30%/40%/50%
Transmitting power	<0.5mW	Mounting height	8m Max.
Power consumption	≤0.5W(standby), <1W(operation)	Motion detection	0.5~3m/s
Detection zone	Max.(D*H)16m*8m	Detection angle	50°(wall installation), 360°(ceiling installation)
Detection sensitivity	10%/25%/50%/75%/100%	Operating temperature	-35~70 C
Hold time	10s/30s/90s/3min/20min/30min	IP rating	IP20

Dimming Function / Enhanced detection zone

Presentation

The sensors allow energy saving without compromising comfort. When used in combination with 1-10V dimmable LED drivers or ballasts, they can achieve 3-step dimming function, which is perfect for use in some areas that requires a light change notice before totally switch off.

Features

- ▶ Automatic switching or dimming when used in combination
- ▶ with 1-10V dimmable LED drivers or ballasts
- ▶ Built-in daylight sensor
- ▶ 1-10V interface can match up with Merrytek stand-alone daylight sensor EUCS01 and achieve daylight harvesting
- ▶ Compact size makes it suitable to fix within most luminaires
- ▶ Detection area, time delay and daylight threshold can be precisely set via DIP switch



Item No.: EUC049V

Parameter

Operating voltage	200-240VAC, 50/60Hz	Daylight sensor	2lux/5lux/10lux/25lux/50lux/100lux/Disable
Rated capacitive load	800W(inductive), 1200(resistive)	Stand-by period	0s/5s/5min/10min/30min/1h/+∞
HF system	5.8GHz±75MHz	Stand-by dimming level	10%/20%/30%/50%
Transmitting power	<0.5mW	Mounting height	15m Max.
Power consumption	≤0.5W(standby), <1W(operation)	Motion detection	0.5~3m/s
Detection zone	Max.(D*H)16m*15m	Detection angle	150°(wall installation), 360°(ceiling installation)
Detection sensitivity	10%/50%/75%/100%	Operating temperature	-30~70 C
Hold time	5s/30s/90s/3min/20min/30min	IP rating	IP20

IP65 Microwave Motion Sensor For Warehouse

Presentation

The MC031V sensor is innovative and active motion detectors with HF system 5.8GHz. Motion can be detected through plastic, glass and thin non-metal materials. except the higher mounting height 15m Max.

Features

- ▶ Automatic dimming when used in combination with 1-10V dimmable LED drivers or ballasts
- ▶ Built-in adjustable daylight sensor
- ▶ 1-10V interface can match up with Merrytek stand-alone daylight sensor MS01 and achieve daylight harvesting
- ▶ Detection area, time delay and daylight threshold can be precisely set via DIP switch
- ▶ Wide detection area, range up to 16m in diameter and mounting height 15m Max. suitable for warehouse use
- ▶ Optional mounting brackets for different application



Item No.: EUC031V

Parameter

Operating voltage	120-277VAC, 50/60Hz	Daylight sensor	50lux/100lux/200lux/Disable
Rated load	400W@120VAC, 800W@220-277VAC(inductive) 800W@120VAC, 1200W@220-277VAC(resistive)	Stand-by period	5s/5min/10min/30min/1h/+∞
HF system	5.8GHz±75MHz	Stand-by dimming	10%/20%/30%/50%
Transmitting power	<0.5mW	Mounting height	15m Max.
Power consumption	≤0.8W(standby), <1.5W(operation)	Motion detection	0.5~3m/s
Detection zone	Max. (D*H)16m*15m	Detection angle	150°(wall installation), 360°(ceiling installation)
Detection sensitivity	50%/100%	Operating temperature	-20~60 C
Hold time	5s/30s/90s/3min/20min/30min	IP rating	IP65

North America Version / Dimming Function

Presentation

The EUC601V innovative and active motion detectors with HF system 5.8GHz. Motion can be detected through plastic, glass and thin non-metal materials. The sensors allow energy saving without compromising comfort. When used in combination with 1-10V dimmable LED drivers or ballasts, they can achieve 3-step dimming function, which is perfect for use in some areas that requires a light change notice before totally switch off.

Features

- ▶ Automatic switching or dimming when used in combination with 1-10V dimmable LED drivers or ballasts
- ▶ Built-in daylight sensor
- ▶ 1-10V interface can match up with Merrytek stand-alone daylight sensor MS01 and achieve daylight harvesting
- ▶ Compact size makes it suitable to fix within most luminaires
- ▶ Detection area, time delay and daylight threshold can be precisely set via DIP switch



Item No.: EUC601V

Parameter

Operating voltage	120-277VAC, 50/60Hz	Hold time	5s/30s/90s/3min/20min/30min
Rated capacitive load	120V@400W; 220-240V@800W; 277V@1000W	Daylight sensor	2lux/5lux/10lux/25lux/50lux/100lux/Disable
HF system	5.8GHz±75MHz	Stand-by period	0s/5s/5min/10min/30min/1h/+∞
Transmitting power	<0.5mW	Stand-by dimming	10%/20%/30%/50%
Power consumption	≤0.5W(standby), <1W(operation)	Mounting height	15m Max.
Detection zone	Max.(D*H)16m*15m	Motion detection	0.5~3m/s
Detection sensitivity	10%/50%/75%/100%	Detection angle	150°(wall installation),360°(ceiling installation)
		Operating temperature	-35℃~70℃ IP rating IP20

ON-OFF / 3-step dimming function For 2D LED ceiling light

Presentation

Sensor DIM LED drivers, originally pioneered by Merrytek, are innovative products integrated with HF motion detector, daylight sensor and LED power supply. The products supply a simple energy-saving solution for LED lights. As all control parts are integrated in a same housing, it is very easy to assemble and save labor cost.

Features

- ▶ Integration of microwave motion sensor, daylight sensor and LED power supply
- ▶ Automatic switching and dimming based on motion and light level
- ▶ Unique design makes the driver suitable to 2D LED ceiling light
- ▶ Detection area, time delay and daylight threshold can be precisely set via DIP switch



Item No.: EULC12C-P2D

Parameter

Operating voltage	220-240VAC, 50/60Hz	Hold time	5s/90s/3min/10min
Output constant current	270mA fixed before leaving factory	Corridor function	0s/30s/10min/+∞
Output voltage	DC30-42V, 10-15pcs LEDs	Daylight sensor	5lux/15lux/50lux/Disable
Efficiency	≥80%	Stand-by dimming level	35%/50%
Power factor	≥0.9	Mounting height	6m Max.
HF system	5.8GHz±75MHz	Motion detection	0.5~3m/s
Transmitting power	<0.5mW	Detection angle	150° (Wall installation)360° (Ceiling installation)
Power consumption	≤1W(standby)	Working temperature	-20~60℃
Detection zone	Max(D*H)16m*6m	Size	88*68*28.5
Detection sensitivity	10%/50%/75%/100%	IP rating	IP20

Microwave motion sensor DIM LED driver

Presentation

Sensor DIM LED drivers, originally pioneered by Merrytek, are innovative products integrated with HF motion detector, daylight sensor and LED power supply. The products supply a simple energy-saving solution for LED ceiling lights. As all control parts are integrated in a same housing, it is very easy to assemble and save labor cost.

Features

- ▶ Integration of microwave motion sensor, daylight sensor and LED power supply
- ▶ Automatic switching and dimming based on motion and light level
- ▶ Constant current can be set via DIP switch
- ▶ Compact size makes the drivers suitable to fix within most LED ceiling lights
- ▶ Detection area, time delay and daylight threshold can be precisely set via DIP switch



Item No.: EULC28C-P
EULC21C-P
EULC16C-PM
EULC10C-P

Parameter

Item No	EULC28C-P	EULC21C-P	EULC16C-PM	EULC10C-P
Operating voltage	220~240Vac, 50Hz	220~240Vac, 50Hz	220~240Vac, 50Hz	220~240Vac, 50Hz
Output constant current	450/550/600/700mA, set via DIP switch	300/350mA, set via DIP switch	300/350mA, set via DIP switch	300/350mA, set via DIP switch
Output voltage	22-40Vdc	34-60Vdc	28-48Vdc	14-28Vdc
Efficiency	≥80%	≥80%	≥80%	≥80%
Power factor	≥0.9	≥0.9	≥0.9	≥0.9
HF system	5.8GHz±75MHz	5.8GHz±75MHz	5.8GHz±75MHz	5.8GHz±75MHz
Transmitting power	<0.5mW	<0.5mW	<0.5mW	<0.5mW
Power consumption	≤1W(standby)	≤1W(standby)	≤1W(standby)	≤1W(standby)
Detection zone Max.(D x H)	16m x 6m	16m x 6m	16m x 6m	16m x 6m
Detection sensitivity	10%/50%/75%/100%	10%/50%/75%/100%	10%/50%/75%/100%	10%/50%/75%/100%
Hold time	5s/90s/3min/10min	5s/90s/3min/10min	5s/90s/3min/10min	5s/90s/3min/10min
Corridor function	0s/30s/10min/Disable	0s/30s/10min/Disable	0s/30s/10min/Disable	0s/30s/10min/Disable
Daylight sensor	5lux/15lux/50lux/Disable	5lux/15lux/50lux/Disable	5lux/15lux/50lux/Disable	5lux/15lux/50lux/Disable
Stand-by dimming level	20%, can be customized			
Mounting height	6m Max.	6m Max.	6m Max.	6m Max.
Motion detection	0.5~3m/s	0.5~3m/s	0.5~3m/s	0.5~3m/s
Detection angle	150°(Wall installation) 360°(Ceiling installation)	150°(Wall installation) 360°(Ceiling installation)	150°(Wall installation) 360°(Ceiling installation)	150°(Wall installation) 360°(Ceiling installation)
Working temperature(Ta)	-20℃~45℃	-20℃~45℃	-20℃~45℃	-20℃~45℃
Size (ΦxH)	82x28.5mm	78x28.5mm	68x28.5mm	68x28.5mm
IP rating	IP20	IP20	IP20	IP20

ON-OFF / 3-step dimming function Ultra-thin version



Item No.: EULC18C-P
EULC08C-P

Parameter

Item No	EULC18C-P	EULC08C-P
Operating voltage	220~240Vac, 50/60Hz	220~240Vac, 50/60Hz
Output constant current	300mA,	300mA,
Output voltage	35-60Vdc	16-28Vdc
Efficiency	≥80%	≥80%
Power factor	≥0.9	≥0.9
HF system	5.8GHz±75MHz	5.8GHz±75MHz
Transmitting power	<0.5mW	<0.5mW
Power consumption	≤1W(standby)	≤1W(standby)
Detection zone	Max.(D x H)12m x 6m	12m x 6m
Detection sensitivity	10%/50%/75%/100%	10%/50%/75%/100%
Hold time	10s/90s/3min/10min	10s/90s/3min/10min
Corridor function	0s/30s/10min/Disable	0s/30s/10min/Disable
Daylight sensor	5lux/15lux/50lux/Disable	5lux/15lux/50lux/Disable
Stand-by dimming level	20%, can be customized	20%, can be customized
Mounting height	6m Max.	6m Max.
Motion detection	0.5~3m/s	0.5~3m/s
Detection angle	150°(Wall installation) 360°(Ceiling installation)	150°(Wall installation) 360°(Ceiling installation)
Working temperature(Ta)	-20℃~50℃	-20℃~50℃
Size (LxWxH)	105×58.5×20mm	90×54.5×16mm
IP rating	IP20	IP20



Presentation

Sensor DIM LED drivers, originally pioneered by Merrytek, are innovative products integrated with HF motion detector, daylight sensor and LED power supply. The products supply a simple energy-saving solution for LED panel light. As all control parts are integrated in a same housing, it is very easy to assemble and save labor cost. Compact size makes the drivers easy to be installed in luminaires and get more simple lighting structure.

Features

- ▶ Integration of microwave motion sensor, daylight sensor and LED power supply
- ▶ Automatic switching and dimming based on motion and light level
- ▶ Compact size makes the drivers suitable to fix within most LED panel light
- ▶ Detection area, time delay and daylight threshold can be precisely set via DIP switch



Item No.:EULC18C-PRF

Parameter

Operating voltage	220-240VAC, 50Hz	Hold time	5s/30s/90s/3min/20min/30min
Output constant current	300mA(16-61.2V),350mA(16-54.4V), 450mA(16-40.8V)600mA(16-27.2V), 700mA(16-27.2V) set by 3 dip switches	Stand-by period	0s/5min/10min/30min/1H/+∞
Output voltage	85VDCmax	Daylight threshold	2lux/10lux/35lux/50lux/100lux/Disable
Efficiency	≥83%	Stand-by dimming level	10%/20%/30%/50%
Power factor	≥0.9	Mounting height	3-4m(typical) 8m Max.
HF system	5.8GHz±75MHz	Motion detection	0.5~3m/s
Transmitting power	<0.5mW	Detection angle	150°(wall installation)360°(ceiling installation)
Detection zone	Max.(D x H)12m x 8m	Working temperature(Ta)	-35℃~50℃
Detection sensitivity	10%/25%/50%/75%/100%	IP rating	IP20



RF Wireless Version Sensor DIM LED Driver

Presentation

MLC18C-PRF Integrates MW motion sensor, dimmable led driver and wireless transceiver technology, to control a group of lamps wirelessly without extra drivers. MW sensor comply with 5.8GHz ISM band, motion can be detected through plastic, glass and thin non-metal materials. Detection area, hold time, dimming level, stand-by period and daylight threshold are adjustable by dip switches.

Features

- ▶ Integrated LED driver, microwave motion sensor, daylight sensor and RF module, applicable to wirelessnet working of luminaires
- ▶ RF wireless networking, up to 16 different groups
- ▶ Night/light function, automatically switch on at dusk and turn off at dawn
- ▶ Multi-output current from 300mA to 700mA

DC operation / Dry Contact Motion Detector

Presentation

The EUC016D is an innovative and active motion detectors with HF system 5.8GHz. Motion can be detected through plastic, glass and thin non-metal materials. It supplies dry contacts in normally closed mode and normally open mode. Dry contact means open or close contact without any current or voltage. It is perfect for use in the solar energy garden lamp or industrial control application where requires isolation between motion signal and power supply.

Features

- ▶ Dry contact detector works in normally closed mode and normally open mode.
- ▶ Automatic switching based on motion and light level.
- ▶ Low voltage input 12VDC
- ▶ Detection area, time delay and daylight threshold can be precisely set via DIP switch.



Item No.: EUC016D

Parameter

Operating voltage	12Vdc (Can be customized)	Hold time	10s/30s/90s/3min/20min/30min
HF system	5.8GHz±75MHz, ISM wave band	Daylight sensor	5lux/10lux/30lux/50lux/Disable
Transmitting power	<0.5mW	Mounting height	6m Max.
Power consumption	≤0.5W(standby), <1W(operation)	Motion detection	0.5~3m/s
Detection zone	Max.(D x H):16m×6m	Detection angle	150°(wall installation) 360°(ceiling installation)
Detection sensitivity	10%/25%/50%/75%/100%	Operating temperature	-25℃~70℃
Hold time	10s/30s/90s/3min/20min/30min	IP rating	IP20



ON-OFF / 3-step dimming function For LED Panel Light and Tri-pooof Light

Presentation

Sensor DIM LED drivers, originally pioneered by Merytek, are innovative products integrated with HF motion detector, daylight sensor and LED power supply. The products supply a simple energy-saving solution for LED ceiling lights. As all control parts are integrated in a same housing, it is very easy to assemble and save labor cost.

Features

- ▶ Integration of microwave motion sensor, daylight sensor and LED power supply
- ▶ Automatic switching and dimming based on motion and light level
- ▶ Unique design makes the drivers suitable to fix within LED panel light and tri-pooof light
- ▶ Detection area, time delay and daylight threshold can be precisely set via DIP switch

Item No.: EULC40C-P1

Parameter



Item No	EULC40C-P1	Hold time	5s/90s/3min/10min
Operating voltage	100~277Vac, 50/60Hz	Corridor function	0s/30s/10min/+∞
Output constant current	900mA,	Daylight sensor	5lux/15lux/50lux/Disable
Output voltage	30-42Vdc	Stand-by dimming level	20%/35%
Efficiency	≥86%	Mounting heightMax.(D x H)	6m Max.
Power factor	≥0.9	Motion detection	0.5~3m/s
HF system	5.8GHz±75MHz	Detection angle	150° (Wall installation) 360° (Ceiling installation)
Transmitting power	<0.2mW	Working temperature(Ta)	-20 C ~50 C
Power consumption	≤1.5W(standby)	Size (LxWxH)	202×58×30mm
Detection zone Max.(D x H)	Max.(D×H)16m x 6m	IP rating	IP20
Detection sensitivity	10%/50%/75%/100%		

Daylight Sensor

Presentation

Faced with the skyrocketing cost of energy and environmental concerns, builders, architects and lighting experts are increasingly turning to daylighting as a primary source of illumination. and proper daylight can increase the comfort. To take full advantage of daylight integration, buildings should have automated controls that either turn off or dim artificial light in response to the available daylight in the space. this is called 'daylight harvesting'.

Features

- ▶ Provides an energy saving without sacrificing visual comfort
- ▶ With ambient light dependent control
- ▶ Directly connected to 1-10V interface
- ▶ Simple setting of the target light level by mean of potentiometer



Item No.: EUS01

Parameter



Operating voltage	1-10VDC	Cable length	80cm
Max. current sink	50mA (Maximum rating)	Detection angle	90°
Dimming range	1%~100%	Operating temperature	0 C ~45 C
Color coding of cable	Red +, Black -	IP rating	IP20