

LED Ceiling Light
BA-AL91




Technical Data Sheet (1)

| Model No. |  |  | 11 "Circular/11 ${ }^{\text {"Semicircle }}$ |  | $11^{\prime \prime} \mathrm{Circular}$ | 14"Circular |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | AL91-11-12W | AL91-11-18W | AL91-11-25W | AL.91-14-25W | AL91-14-30 W |
| Dimension(mm) |  |  | $\varnothing 275 * 59$ |  |  | ø350*59 |  |
| Cutout (mm) |  |  | - |  |  | - | - |
| Watt(W) |  |  | 12W | 18 W | 25W | 25W | 30w |
| Rated Input Voltage(V) |  |  | AC100-240V \|| AC230V |  |  |  |  |
| Input Voltage(V) |  |  | AC85-265V \|| AC200-240V |  |  |  |  |
| LED Module Input |  |  | - |  |  |  |  |
| Light Source |  |  | SMD |  |  |  |  |
| sDCM |  |  | <6 (@3000k 4000k 5000k) |  |  |  |  |
| CCT(K) |  |  | 1-CCT: $3000 \mathrm{~K} 44000 \mathrm{~K} / 5000 \mathrm{~K} / 5700 \mathrm{~K}$ \|| 3-CCT: $3000 \mathrm{~K}+4000 \mathrm{~K}+5700 \mathrm{~K}$ |  |  |  |  |
| CCT Selection DIP Switch |  |  | YES |  |  |  |  |
| Luminous Flux ( Im ) $\pm 5 \%$ | Non-DIM | 1-CCT | 1000~1200 | 1480~1750 | 2140~2420 | 2140~2420 | 2520~2800 |
|  | DIM |  | 950~1150 | 1450~1720 | 2120~2400 | 2120~2400 | 2500~2780 |
|  | Non-DIM | 3-CCT | 1000~1250 | 1480~1780 | 2140~2450 | 2140~2450 | 2520~2850 |
|  | DIM |  | 950~1200 | 1480~1750 | 2120~2430 | 2120~2430 | 2500~2820 |
| CRI |  |  | $\geq 80$ |  |  |  |  |
| Beam Angle (\%) |  |  | $110^{\circ}$ |  |  |  |  |
| UGR |  |  | - |  |  |  |  |
| LED Driver |  |  | Built-in |  |  |  |  |
| Dimming Option |  |  | Triac/ DAL// 0-10V |  |  |  |  |
| Sensor |  |  | adjustable sensor |  |  |  |  |
| Emergency Kits |  |  | YES |  |  |  |  |
| Electrical Class |  |  | Class II |  |  |  |  |
| Ingress Protection (IP Rating) |  |  | 1P65 |  |  |  |  |
| Impact Resistance (IK Rating) |  |  | 1K10 |  |  |  |  |
| Product Finishing(Base) |  |  | BLACK RAL 9005 / WHITE RAL9016 |  |  |  |  |
| Materials of Optics |  |  | PC |  |  |  |  |
| Materials of Housing |  |  | PC |  |  |  |  |
| Lifetime (hr) |  |  | 50,000h |  |  |  |  |
| Glow wire test ( ${ }^{\text {C }}$ ) |  |  | $750^{\circ} \mathrm{C}$ (Cover) $850^{\circ} \mathrm{C}$ (Lamp Base) |  |  |  |  |
| Operating Temp. ( ${ }^{\circ} \mathrm{C}$ ) |  |  | $-20^{\circ} \mathrm{C} \sim 45^{\circ} \mathrm{C}$ |  |  |  |  |
| Storage Temp. ( ${ }^{\circ} \mathrm{C}$ ) |  |  | $-20^{\circ} \mathrm{C} \sim 65^{\circ} \mathrm{C}$ |  |  |  |  |
| Installation |  |  | Surface mount |  |  |  |  |




## Measurement

| Model | Dimension(mm) |  |  |  | ze(mm) | Product Weight (Kg) |  | Package weight (Kg) |  | Carton Size(cm) | Qty/CTN | $\begin{aligned} & 20 \mathrm{GP} \\ & (\mathrm{pcs}) \end{aligned}$ | $\begin{gathered} 40 \mathrm{HQ} \\ (\mathrm{pcs}) \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | A | B | C | D |  | N.W/PC | G.W/PC | N.W/CTN | G.w/CTN |  |  |  |  |
| 11 "Circular | ø275 | 59 | 22 | - | 275*59 | 0.76 | 0.92 | 9.12 | 12.2 | $58.5 * 44 * 30$ | 12PCS | 4032 | 9408 |
| 14"Circular | ø350 | 59 | 26.5 |  | ø350*59 | 1.19 | 1.4 | 7.14 | 9.4 | $44 * 37.5 * 37.5$ | 6PCS | 2880 | 680 |
| 11 "Semicircle | ø275 | 59 | 22 | 133 | ø275*59 | 0.77 | 0.93 | 9.24 | 12.3 | $58.5 * 44 * 30$ | 12PCS | 4032 | 9408 |
| 12 "Oval | 320 | 230 | 60 | 22 | 320*230*60 | 0.78 | 0.9 | 9.36 | 12 | $49.5 * 44 * 34.5$ | 12 PCS | 4320 | 10164 |
| 10"Square | 242 | 242 | 59 | 23.5 | $242 * 242 * 5$ | 0.72 | 0.8 | 8.64 | 11.6 | $52.5 * 44 * 27$ | 12PCS | 547 | 123 |

## Technical Data Sheet (2)

| Model No. |  |  | 10"Square |  |  | 12"Oval |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | AL91-10-12W | AL91-10-18W | AL91-10-25W | AL91-12-12W | AL91-12-18W | AL91-12-25W |
| Dimension(mm) |  |  | $242 * 242 * 59$ |  |  | $320 * 230 * 60$ |  |  |
| Cutout (mm) |  |  | - | - | - | - | - | - |
| Watt(W) |  |  | 12W | 18W | 25W | 12W | 18W | 25W |
| Rated Input Voltage(V) |  |  | AC100-240V \|| AC230V |  |  |  |  |  |
| Input Voltage(V) |  |  | AC200-240V |  |  |  |  |  |
| LED Module Input |  |  | - |  |  |  |  |  |
| Light Source |  |  | SMD |  |  |  |  |  |
| SDCM |  |  | <6 (@3000k 4000k 5000k) |  |  |  |  |  |
| CCT(K) |  |  | 1-CCT: 3000k/4000K/5000k/5700K \|| 3-CCT: 3000K + 4000K + 5700K |  |  |  |  |  |
| CCT Selection DIP Switch |  |  | YES |  |  |  |  |  |
| Luminous Flux$(\mathrm{Im}) \pm 5 \%$ | Non-DIM | 1-CCT | 1000~1200 | 1480~1750 | 2140~2420 | 1000~1200 | 1480~1750 | 2140~2420 |
|  | DIM |  | 950~1150 | 1450~1720 | 2120~2400 | 950~1150 | 1450~1720 | 2120~2400 |
|  | Non-DIM | 3-CCT | 1000~1250 | 1480~1780 | 2140~2450 | 1000~1250 | 1480~1780 | 2140~2450 |
|  | DIM |  | 950~1200 | 1480~1750 | 2120~2430 | 950~1200 | 1480~1750 | 2120~2430 |
| CRI |  |  | $\geq 80$ |  |  |  |  |  |
| Beam Angle ( ${ }^{\circ}$ ) |  |  | $110^{\circ}$ |  |  |  |  |  |
| UGR |  |  | - |  |  |  |  |  |
| LED Driver |  |  | Built-in |  |  |  |  |  |
| Dimming Option |  |  | Triac/ DAL// 0-10V |  |  |  |  |  |
| Sensor |  |  | adjustable sensor |  |  |  |  |  |
| Emergency Kits |  |  | YES |  |  |  |  |  |
| Electrical Class |  |  | Class II |  |  |  |  |  |
| Ingress Protection (IP Rating) |  |  | IP65 |  |  |  |  |  |
| Impact Resistance (IK Rating) |  |  | 1K10 |  |  |  |  |  |
| Product Finishing(Base) |  |  | BLACK RAL 9005 / WHITE RAL9016 |  |  |  |  |  |
| Materials of Optics |  |  | PC |  |  |  |  |  |
| Materials of Housing |  |  | PC |  |  |  |  |  |
| Lifetime (hr) |  |  | 50,000h |  |  |  |  |  |
| Glow wire test ( ${ }^{\text {C }}$ ) |  |  | $750^{\circ} \mathrm{C}$ (Cover) $850^{\circ} \mathrm{C}$ (Lamp Base) |  |  |  |  |  |
| Operating Temp. ( ${ }^{\circ} \mathrm{C}$ ) |  |  | $-20^{\circ} \mathrm{C} \sim 45^{\circ} \mathrm{C}$ |  |  |  |  |  |
| Storage Temp. ( ${ }^{\text {C }}$ ) |  |  | $-20^{\circ} \mathrm{C} \sim 65^{\circ} \mathrm{C}$ |  |  |  |  |  |
| Installation |  |  | Surface mount |  |  |  |  |  |

## Technical Data Sheet (3)

| Model No. |  |  | $\begin{aligned} & \text { AL91-10-23W-AC3 } \\ & \text { (Square) } \end{aligned}$ | AL91-11-23W-AC3 (Circular) | $\begin{aligned} & \text { AL91-12-23W-AC3 } \\ & \text { (Oval) } \end{aligned}$ | AL91-14-28W-AC3 <br> (Circular) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Dimension(mm) |  |  | $242 * 242 * 59$ | ø275*59 | $320 * 230 * 60$ | ø350*59 |
| Cutout (mm) |  |  | - | - | - | - |
| Watt(W) |  |  | 9W/14W/18W/23W |  |  | 14W/18W/23W/28W |
| Rated Input Voltage(V) |  |  | AC230V |  |  |  |
| Input Voltage(V) |  |  | AC200-240V |  |  |  |
| LED Module Input |  |  | - |  |  |  |
| Light Source |  |  | SMD |  |  |  |
| SDCM |  |  | <6 (@3000k 4000k 5000k) |  |  |  |
| CCT(K) |  |  | 1-CCT: 3000K/4000K/5000k/5700K \|| 3-CCT: 3000K + 4000K + 5700K |  |  |  |
| CCT Selection DIP Switch |  |  | YES |  |  |  |
| Luminous Flux$(\mathrm{Im}) \pm 5 \%$ | Non-DIM | 1-CCT | - |  |  | - |
|  | DIM |  | - |  |  | - |
|  | Non-DIM | 3-CCT | $\begin{gathered} 9 W: 880 \sim 1050 \\ 14 W: 1200 \sim 1450 \\ 18 W: 180 \sim 1800 \\ \text { 23W:2000~2450 } \end{gathered}$ |  |  | 14W: $1200 \sim 1500$ 18W: $1650 \sim 900$ 23W: 200~ 2400 28W: $2000 \sim 2850$ |
|  | DIM |  | - |  |  | - |
| CRI |  |  | $\geq 80$ |  |  |  |
| Beam Angle (\%) |  |  | $110^{\circ}$ |  |  |  |
| UGR |  |  | - |  |  |  |
| LED Driver |  |  | Built-in |  |  |  |
| Dimming Option |  |  | - |  |  |  |
| Sensor |  |  | adjustable sensor |  |  |  |
| Emergency Kits |  |  | YES |  |  |  |
| Electrical Class |  |  | Class II |  |  |  |
| Ingress Protection (IP Rating) |  |  | 1P65 |  |  |  |
| Impact Resistance (IK Rating) |  |  | 1K10 |  |  |  |
| Product Finishing(Base) |  |  | BLACK RAL 9005 / WHITE RAL9016 |  |  |  |
| Materials of Optics |  |  | PC |  |  |  |
| Materials of Housing |  |  | PC |  |  |  |
| Lifetime (hr) |  |  | 50,000h |  |  |  |
| Glow wire test ( ${ }^{\circ} \mathrm{C}$ ) |  |  | $750^{\circ} \mathrm{C}$ (Cover) $850^{\circ} \mathrm{C}$ (Lamp Base) |  |  |  |
| Operating Temp. ( ${ }^{\circ} \mathrm{C}$ ) |  |  | $-20^{\circ} \mathrm{C} \sim 45^{\circ} \mathrm{C}$ |  |  |  |
| Storage Temp. ( ${ }^{\circ} \mathrm{C}$ ) |  |  | $-20^{\circ} \mathrm{C} \sim 65^{\circ} \mathrm{C}$ |  |  |  |
| Installation |  |  | Surface mount |  |  |  |

## Driver Datasheet (Non-dimmable )

| Total load wattage |  | 12 W | 18 W | 25 W | 30 W |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Output | Output Voltage range | DC60-80V | DC60-80V | DC60-75V | DC60-75V |
|  | Rated output current | 150 mA | 230 mA | 325 mA | 380 mA |
|  | Line Regulation | $\pm 5 \%$ |  |  |  |
|  | Setup, Rise Time | <15 |  |  |  |
|  | Flickering Index | - |  |  |  |
| Input | Input Voltage | AC85-265V |  |  |  |
|  | Rated Input Voltage(V) | AC100-240V |  |  |  |
|  | Frequency | 50/60Hz |  |  |  |
|  | Input Current | $\leq 0.16 \mathrm{~A}$ | $\leq 0.24 \mathrm{~A}$ | $\leq 0.33 \mathrm{~A}$ | $\leq 0.4 \mathrm{~A}$ |
|  | Rated Input Current | $\leq 0.14 \mathrm{~A}$ | $\leq 0.2 \mathrm{~A}$ | $\leq 0.28 \mathrm{~A}$ | $\leq 0.34 \mathrm{~A}$ |
|  | Power Factor | 0.9 |  |  |  |
|  | тНD | - |  | <20\% @230V |  |
|  | Efficiency | >88\% |  |  |  |
|  | No load wattage | <1W |  |  |  |
| Protection | Short circuit protection | Pass |  |  |  |
|  | Over voltage protection | Pass |  |  |  |
|  | Over temperature protection | Pass |  |  |  |
| Safety \& EMC | Withstand voltage | - |  |  |  |
|  | Isolation Resistance | - |  |  |  |
|  | Surge | IEC61000-4 | N-PG:1KV) | IEC61000-4 | N-PG:2KV) |
|  | EMC Emission | EN55015, EN61000-3-2 |  |  |  |
|  | EMC Immunity | EN61000-4-2,3,4, ,5,6,8,11; EN61547 |  |  |  |

Driver Datasheet (Triac Dimmable)

|  | Total load wattage | 12 w | 18 W | 25w | 30 w |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Output | Output Voltage range | DC65-75V | DC65-75V | DC65-75V | DC65-75V |
|  | Rated output current | 150 mA | 230 mA | 320 mA | 390 mA |
|  | Line Regulation | $\pm 5 \%$ |  |  |  |
|  | Setup, Rise Time | <15 |  |  |  |
|  | Flickering Index |  |  |  |  |
| Input | Input Voltage | AC200-240V |  |  |  |
|  | Rated Input Voltage(V) | AC230V |  |  |  |
|  | Frequency | 5 Hz |  |  |  |
|  | Input Current | $\leq 0.07 \mathrm{~A}$ | $\leq 0.1 \mathrm{~A}$ | $\leq 0.14 \mathrm{~A}$ | $\leq 0.17 \mathrm{~A}$ |
|  | Rated Input Current | $\leq 0.06 \mathrm{~A}$ | $\leq 0.09 \mathrm{~A}$ | $\leq 0.13 \mathrm{~A}$ | $\leq 0.15 \mathrm{~A}$ |
|  | Power Factor | 0.9 |  |  |  |
|  | THD | - |  | <20\% @230V |  |
|  | Efficiency | $\geq 83 \%$ |  | $\geq 86 \%$ |  |
|  | No load wattage | <1W |  |  |  |
| Protection | Short circuit protection | Pass |  |  |  |
|  | Over voltage protection | Pass |  |  |  |
|  | Over temperature protection | Pass |  |  |  |
| Safety \& EMC | Withstand voltage | - |  |  |  |
|  | Isolation Resistance | - |  |  |  |
|  | Surge | IEC61000-4-5(L-N:0.5KV, L/N-PG:1 KV) |  | IEC61000-4-5(L-N:1 1V, L/N-PG:2KV) |  |
|  | EMC Emission | EN55015, EN61000-3-2 |  |  |  |
|  | EMC Immunity | EN61000-4-2,3,4,5,6,8,11; EN61547 |  |  |  |

## Driver Datasheet (DALI Dimmable)

|  | Total load wattage | 18w | 25W | 30w |
| :---: | :---: | :---: | :---: | :---: |
| Output | Output Voltage range | DC27-40V | DC27-40V | DC27-40V |
|  | Rated output current | 400 mA | 600 mA | 700 mA |
|  | Line Regulation | $\pm 5 \%$ |  |  |
|  | Setup, Rise Time | <15 |  |  |
|  | Flickering Index | - |  |  |
| Input | Input Voltage | AC200-240V |  |  |
|  | Rated Input Voltage(V) | AC230V |  |  |
|  | Frequency | 50 Hz |  |  |
|  | Input Current | $\leq 0.1 \mathrm{~A}$ | $\leq 0.14 \mathrm{~A}$ | $\leq 0.17 \mathrm{~A}$ |
|  | Rated Input Current | 0.09 A | 0.13A | 0.16A |
|  | Power Factor | 0.9 |  |  |
|  | THD | <20\% @230V |  |  |
|  | Efficiency | >81\% |  |  |
|  | No load wattage | <1W |  |  |
| Protection | Short circuit protection | Pass |  |  |
|  | Over voltage protection | Pass |  |  |
|  | Over temperature protection | Pass |  |  |
| Safety \& ${ }^{\text {EMC }}$ | Withstand voltage | I/P-O/P:3.75kVac, <5mA 60S;/P-FG: 1.6KVac, < 5 mA 60S;0/P-FG:0.5 $\mathrm{KVac},<5 \mathrm{~mA} 60 \mathrm{~S}$ |  |  |
|  | Isolation Resistance | I/P-O/P: 500VDC, $\geq 100 \mathrm{M} \Omega$ |  |  |
|  | Surge | IEC61000-4-5(L-N:1 1 VV, L/N-PG:2KV) |  |  |
|  | EMC Emission | EN55015, EN61000-3-2 |  |  |
|  | EMC Immunity | EN61000-4-2,3,4,5,6,8, 11 ; EN61547 |  |  |

## Driver Datasheet (0-10V Dimmable)

|  | Total load wattage | 18w | 25w | 30w |
| :---: | :---: | :---: | :---: | :---: |
| Output | Output Voltage range | DC27-40V | DC27-40V | DC27-40V |
|  | Rated output current | 400 mA | 600 mA | 700 mA |
|  | Line Regulation | $\pm 5 \%$ |  |  |
|  | Setup, Rise Time | <15 |  |  |
|  | Flickering Index | - |  |  |
| Input | Input Voltage | AC200-240V |  |  |
|  | Rated Input Voltage(V) | AC230V |  |  |
|  | Frequency | 50 Hz |  |  |
|  | Input Current | $\leq 0.1 \mathrm{~A}$ | $\leq 0.14 \mathrm{~A}$ | $\leq 0.17 \mathrm{~A}$ |
|  | Rated Input Current | 0.09 A | 0.13A | 0.16A |
|  | Power Factor | 0.9 |  |  |
|  | THD | <20\% @ 230V |  |  |
|  | Efficiency | $\geq 81 \%$ |  |  |
|  | No load wattage | <1W |  |  |
| Protection | Short circuit protection | Pass |  |  |
|  | Over voltage protection | Pass |  |  |
|  | Over temperature protection | Pass |  |  |
| Safety \& EMC | Withstand voltage | I/P-O/P:3.75KVac, <5mA 60S;/P-FG: $1.6 \mathrm{KVac},<5 \mathrm{~mA}$ 605; O/P-FG: $0.5 \mathrm{KVac},<5 \mathrm{~mA} 60 \mathrm{~s}$ |  |  |
|  | Isolation Resistance | I/P-O/P: 500VDC, $\geq 100 \mathrm{M} \Omega$ |  |  |
|  | Surge | IEC61000-4-5(L-N:1 1 V, LN-PG:2KV) |  |  |
|  | EMC Emission | EN55015, EN61000-3-2 |  |  |
|  | EMC Immunity | EN61000-4-2,3,4, ,5,6,8,11; EN61547 |  |  |

Driver Datasheet (Adjustable power)

| Total load wattage |  | 9W/14W/18W/24W | 14W/18W/24W/28W |
| :---: | :---: | :---: | :---: |
| Output | Output Voltage range | DC23-40V | DC23-40V |
|  | Rated output current | 230/350/450/580mA | 350/450/600/700mA |
|  | Line Regulation | $\pm 5 \%$ |  |
|  | Setup, Rise Time | <15 |  |
|  | Flickering Index | 10\% |  |
| Input | Input Voltage | AC200-240V |  |
|  | Rated Input Voltage(V) | AC230V |  |
|  | Frequency | 50/60Hz |  |
|  | Input Current | $\leq 0.14 \mathrm{~A}$ | $\leq 0.17 \mathrm{~A}$ |
|  | Rated Input Current | 0.13 A | 0.16 A |
|  | Power Factor | 0.9 |  |
|  | THD | <20\% @230V |  |
|  | Efficiency | $\geq 83 \%$ |  |
|  | No load wattage | <1W |  |
| Protection | Short circuit protection | Pass |  |
|  | Over voltage protection | Pass |  |
|  | Over temperature protection | Pass |  |
| Safety \& EMC | Withstand voltage | IP-O/P:3.75KVac, <5mA 60s |  |
|  | Isolation Resistance | I/P-O/P: 500VDC, $\geq 100 \mathrm{M} \Omega$ |  |
|  | Surge | IEC61000-4-5(L-N:1 KV) |  |
|  | EMC Emission | EN55015, EN61000-3-2 |  |
|  | EMC Immunity | EN61000-4-2,3,4, ,5,6,8,11; EN61547 |  |

Driver Datasheet (Emergency)

| Power | 3 W |
| :--- | :---: |
| Rated Input Voltage(V) | AC230V |
| Frequency | $50 / 60 \mathrm{~Hz}$ |
| Input Voltage | AC200-240V |
| Total load wattage | $3 \mathrm{~W} \pm 0.5 \mathrm{~W}$ |
| Rated Input Current | $\leq 0.03 \mathrm{~A}$ |
| Battery | 6.4 V 1500 mAh (Lifepo4) |
| Lifetime | Over 2000 cycles |
| Battery duration | $\geq 3 \mathrm{hrs}$ |
| Charge Period | $\geq 24 \mathrm{hrs}$ |
| Emergency switching time | $\leqq 1 \mathrm{~S}$ |

## Wiring Diagram:



Instructions for automatic test option
1.Once the unit is powered up it will automaticlly initiate a self test and diagnostics as follows:

Every 4seconds:Check for battery disconnection, charger board fault,lamp failure and transformer failure.

- Every month:Perform a 3 minute duration test.

Every yeat:Perform a 1 Hour or 3 Hours duration test.
2.Dual Colour Indicator LED Status Mesning

Green Solid On Read
Red Requires Service

| - | One flash, 4 second pause | Battery not connected |
| :---: | :---: | :---: |
| - . | Two flashs, 4 second pause | Battery short or low battery voltage |
| -. | Three flashs, 4 second pause | Charger board fault |
| - . . | Four flashs, 4 second pause | Transformer fault |
| - . . . | Five flashs, 4 second pause | LED lamp fault |

NOTE: After repairing a service fault, press and hold the test button for 2 seconds to reset the flashing indicator light to green.

## 3.Manual Test

| Press test button once | 30 second duration test |
| :--- | :--- |
| Press test button twice within 2 seconds | 3 minute duration test |
| Press test button 3 times within 2 seconds | 30 minutes duration test |
| Press test button 4 times within 2 seconds | 1 or 3 hours duration test |

Note: DALI \& 0-10V driver specification, please refer to individual driver datasheet.

## Sensor Setting



Detection range setting (sensitivity)


Note: the above detection range is gained if the detected person is between $1.6 \mathrm{~m} \sim 1.7 \mathrm{~m}$ tall with middle figure and moves at a speed of $1.0 \sim 1.5 \mathrm{~m} /$ sec. if person's stature, figure and moving speed change, the detection distance will also change. sec. if person's stature, figure and moving speed change, the detection distance will also change.
ATTENTION. When use thes product, please adjust the sensitivity to an appropriate position you need, please do not adjust the sensitivity to maximum, in case the product works althormally because of wrong motion detection, including blowing leaves \& curtains small animals, or even power grid $\&$ electrical equipment. All the above factors can lead to abnormal work. When the product does not work normally, please try to lower the sensitivity apropriately, and then test it.

## Time setting



The light can be set to stay ON for any period of time between approx. 10 sec and a maximum of 30 inin. Any movement detected before this time elapse will re-start the timer. It is recommended to select the shortest time for adjusting Pull switch to the ON position as "1", pull switch to the OFF position as " 0 ", switch location and detection range of the corresponding table is as follows: to movement once this period has elapsed.

## Light-control setting



| S6 | S7 | S8 | LUX |
| :---: | :---: | :---: | :---: |
| 0 | 0 | 0 | Disable |
| 0 | 0 | 1 | 10LUX |
| 0 | 1 | 0 | 20LU |
| 0 | 1 | 1 | 50LUX |
| 1 | 0 | 0 | 1000UX |
| 1 | 0 | 1 | 200LUX |
| 1 | 1 | 0 | 3000UX |
| 1 | 1 | 1 | 500LUX |

The chosen light response threshold can be infinlitely from approx. 10-500lux, pull switch o the ON position as "1", pull switch to the OFF position as "0", switch location and light control of the corresponding table is as follows:

## Installation Procedure

## WARNING $/$

## Step

Swith off before instalation / maintenance.
Switch on only after complete installation and examination of the circuit.
2. Professional electrician for installation and maintenance only

Turn Off power supply before starting any installation. Read instructions \& check you have all the tools \& accessories complete the installation correctly.

## - How to install

## Step 1



Step 2

For round shape only:Unscrew the front frame, take the lamp cover apart by rotating it in anti-clockwise direction. For square
take it out.


Feed the AC wire into terminal block respectively; If with
power function, choose preferred CCT or wattage by slid switch. For emergency function, connect battery wire; For dimming function, connect $\mathrm{D}+$ and D - wire


Step 5

Pug the male and female connector. Align the hooks on the lamp cover with the notch of the base, rotate the lamp cover clockwise until they match well. No need to
rotate square or oval shape frame, clip the lamp cover directly.



## Step 6

Clip the frame into the base, rotate the frame clockwise until hey match well, fix frame with screw. (Square and oval shape amp no rotary buckle, hold the cover and fix it with screw)


Step 7


