Technical Datasheet

Integrated-LED Tri-Proof Light - PIR MOTION SENSOR - 35W-30W-25W-20W - OSRAM Driver - 120cm

Product code:

Reference: SENSOR-CRT-OSR120

Technical specifications:

REFERENCE: SENSOR-CRT-OSR120
Rated Power : 20W -25W-30W-35W
Nominal Voltage: 198-264V
Colour: 4000K
CRI - Chromatic Rendiment Index: 80
Construction Material: Polyester + PMMA
Luminosity-Lm: 20W:2800Lm-25W:3400Lm -30W:4000Lm-35W:4500Lm
Number & Type of LEDs: SMD 2835
Beam Angle (º): 120º
Luminous diodo LED (Lm/W): 160 Lm/w
Luminous Efficiency (Lm/W): 146Lm/W
Certifications: CE - ROHS
IP : IP66
Diode Life Expectancy (H): 72.000h
Dimensions (mm): 1185x85x88 mm
Power Factor (PF): 0.93
Frequency (Hz): 50/60Hz
Temperature Range (ºC): -20°C ~ +55°C
On/Off Cycles: 100.000
Starting Time (s): 0,2s
Other Information: L70B50: 72.000h - L80B10: 50.000h -L90B10: 25000h
Control modes: PIR: Time: 5"-30"-1min -3 min- 5min-8 min. Ambient Light: 10 LUX/2000LUX Distance: 3-6M.
Impact Protection (IK) : IK08
Driver included: OSRAM ELEMENT 40/220-40/350 D CS L
Energy Rating (2021-UE-2019/2015): A++
Energy Rating (2023 - UE-2019/2015): D
Warranty Years: 5

Product short description:

Discover our **Integrated LED Waterproof Tri-Proof Light**, the perfect solution for efficient and long-lasting lighting in any space. **With selectable power from 20W to 35W,** this strip features a high-quality OSRAM Driver and a size of 120cm, making it ideal for any type of installation. Additionally, its waterproof design ensures total protection against dust and moisture, making it a perfect option for workspaces, warehouses, or any environment that requires high-performance lighting. Enjoy the most advanced LED technology with our Waterproof Tri-Proof Light!

Product description:

Integrated-LED Tri-Proof Ligh - PIR MOTION SENSOR - - OSRAM Driver - Waterproof integrated LED - Selectable power: 35W-30W-25W-20W - 120cm

The integrated LED Waterproof Strip is the perfect solution to illuminate any space in an efficient and lasting way. With selectable power from 20W to 35W, this power strip has a high-quality OSRAM Driver and a size of 120cm that makes it ideal for any type of installation.

The gasketed construction, the closing system and the diffuser ensure a high degree of protection (IP66) against dust, contamination and water penetration. This classification allows the strip to be widely used in spaces with a dusty and humid environment.

The body of the strip is available in reinforced polyester in a light gray color (RAL7035), which gives it excellent resistance to temperature, mechanical stability and electrical insulation. In addition, it resists the impacts of various chemicals and adverse weather conditions. Its stability of size and shape at changing temperatures is excellent.

The diffuser is made of injection-moulded opalized PMMA, with unique non-aging properties and high chemical resistance. Its light efficiency is extremely high thanks to a high permeability to light, up to 90%. In addition, its light dispersion is well balanced, allowing for excellent light uniformity without shadows or glare. Its light opening angle is 120º.

The joint between the diffuser and the casing is made of silicone-based injected foam. The diffuser is fixed to the body with anti-vandal stainless steel clips and the gear holder (reflector) is made of white powder-coated sheet steel.

The Osram Driver has selectable power in four options: 20W that delivers 2800Lm, 25W that gives a performance of 3400Lm, 30W that delivers 4000Lm and 35W gives a performance of 4500Lm. The diode LED plate optimizes the thermal management of the luminaire to avoid direct contact between the gear holder and the driver, thus increasing the useful life of the strip.

The tray of the luminaire where the LED plate is located is made of sheet steel with white powder paint coating with oven drying. The fixing clips of the luminaire are security: special stainless steel tamper-proof and cannot be manipulated with bare hands.

Technical Datasheet

Our LED light has a useful life L70B50: 72,000h - L80B10: 50,000h -L90B10: 25,000h, that means that:

- L70B50: After 72,000 hours of operation, the light emitted by the strip will have a luminous output of 70% of its original value (L70) and that 50% of the luminaires in a large sample will maintain that luminous output (B50).
- L80B10: After 50,000 hours of operation, the light emitted by the strip will have a light output of 80% of its original value (L80) and that 10% of the luminaires in a large sample will maintain that light output (B10).
- L90B10: After 25,000 hours of operation, the light emitted by the strip will have a luminous output of 90% of its original value (L90) and that 10% of the luminaires in a large sample will maintain that luminous output (B10).

Impact resistance: The cover of the luminaire is made of PMMA (polymethyl methacrylate), with an impact index of IK08. The IK (international standard IEC 62262) is a measure of mechanical resistance or impact of an electrical or electronic product, used to indicate the level of protection against external impacts on a scale from 0 to 10. IK08 is a classification within the IK scale, indicating that the equipment has been tested and approved to withstand a mechanical impact of up to 5 joules (J) of energy (dropping a steel ball with a mass of 1.7 kg from a height of 0.2 meters three times). If the equipment passes the test without significant damage, it is considered to meet the IK08 impact resistance classification.

DETECTOR SPECIFICATIONS:

►Ambient light: 10LUX/2000LUX (option)
►Time delay: 5s, 30s, 1min, 3min, 5min, 8min (choice)
►Detection movement speed: 0.6-1.5m/s
►Detection distance: 3 meters / 6 meters (choice) (24ºC)
► Installation height: 2.2-4 m (ceiling mount).

FUNCTION:

► It can identify day and night automatically: when turned to SUN ((down is SUN)), it will work day and night, when turned to MOON (up is MOON), it will only work in the ambient light less than 10LUX . Regarding the fit, please refer to the test form

► Adjustable SENS: can be adjusted according to the place of use. Low sensitivity sensing distance could be only 3 meters and high sensitivity could be 6 meters, which suits a large room.

► Time-Delay is added continuously: when it receives the signals of the second induction within the first induction, it will restart in time from the moment

INSTALLATION TIPS:

Since the detector responds to changes in temperature, avoid the following situations:

► Avoid pointing the detector at objects with highly reflective surfaces, such as mirrors, etc.

► Avoid mounting the detector near heat sources such as heating ducts, air conditioning units, lights, etc.

► Avoid pointing the detector at objects that may move in the wind, such as curtains, tall plants, etc.

PROOF:

► Slide the LUX switch to the SUN position (down is SUN). Slide the SENS switch to maximum (down is maximum). Set the TIME switch, slide the switch 5" (seconds) to the ON position (slide up).

► Turn on the power; the sensor and its connected lamp will have no signal at first. After 30 seconds warm up, the sensor can start to work. If the sensor receives the induction signal, the lamp will light up. As long as there is no other induction signal anymore, the load should stop working in 5 seconds and the lamp would go out.

► Slide the LUX knob up to minimum (Moon). If the ambient light is higher than 10LUX, the sensor will not work and the lamp will stop working as well. If the ambient light is less than -3LUX (dark), the sensor would work. Under conditions of no induction signal, the sensor should stop working within 5 seconds.

Note: When testing in daylight, please turn the LUX (SUN) knob position, otherwise the sensor lamp could not work. If the lamp is more than 60W, the distance between the lamp and the sensor should be at least 60cm.

SOME PROBLEM AND SOLVED WAY

►Charging does not work:

-Check whether the connection of power supply and charging is correct.
-Please check if the charging is good.
-Check if the work light setting corresponds to the ambient light.

►Sensitivity is poor:

-Check if there is any obstacle in front of the detector that affects the reception of the signals.
-Check if the ambient temperature is too high.
-Check whether the induction signal source is in the detection field.
-Check if the installation height corresponds to the height required in the instructions.
-Check if the movement orientation is correct.

►The sensor cannot turn off the load automatically:

-Check if there is a continuous signal in the detection field.
-Check if the delay time is set to the maximum position.

Our integrated LED waterproof strip is an excellent option for those looking for high performance lighting in work spaces, warehouses or any environment that requires efficient and long-lasting lighting. With its waterproof design and resistance to adverse weather conditions, this strip is an investment in high quality lighting.

- The integrated LED waterproof strip with selectable power and can be used in a variety of indoor and outdoor applications thanks to its high degree of protection (IP66) against dust, pollution and water penetration. Some examples of its use are in:
- Work spaces
- warehouses
- garages
- workshops
- Hallways
- courtyards
- Tickets
- Parking lots , ...

At FactorLED we ensure that our products have a QUALITY guarantee and offer all the necessary elements for DISTRIBUTION, IMPORT or WHOLESALE, including the technical data sheet for each LED product.

Technical Datasheet

Additional images: