# PRODUCT DATASHEET
# FL 20 SN P 17W 2K4LM 840 PS SY100 BK

FLOODLIGHT SENSOR 20 | Floodlight with flexible motion and daylight sensor, up to 2400 lm




## Areas of application

- Replacement for floodlights with halogen lamps
- Outdoor use (IP65)
- D-sign according to EN 60598-2-24 for fire-risk commercial unit, e.g. by accumulation of dust
- Public areas
- Building facades
- Construction areas
- Parking
- Gardens and balconies

## Product benefits

- Demand optimized illumination due to flexible and programmable sensor
- Easy adjustment of sensor range, daylight detection, hold time and dimming function
- Always-on override, activated via special mains switching pattern
- Breather membrane to optimize air exchange, without compromising IP protection
- Highly versatile due to selectable power steps (Multi Lumen) on the housing
- Robust cable gland with integrated waterstop function
- Safe and very uniform illumination, due to frosted and tempered glass diffuser
- Bright, robust and durable
- Energy savings of up to 90 % compared to halogen lamp floodlights
- No upper light output ratio (ULOR 0%) when mounted at 0° tilt

## Product features

- Flexible motion and daylight sensor
- Sensor with 350° pan and 200° tilt
- High luminous efficacy: up to 145 lm/W
- Type of protection: IP65
- Pre-installed, flexible 1 m cable (H05RN-F), wrapped 3 x 1.0 $mm^2$ single wires
- Reflector-based, symmetric light distribution with 100° x 100° beam angle
- Mounting bracket with 30° angle and wide rotation area
- Integrated voltage driver, suitable for 220 - 240 V AC


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## TECHNICAL DATA

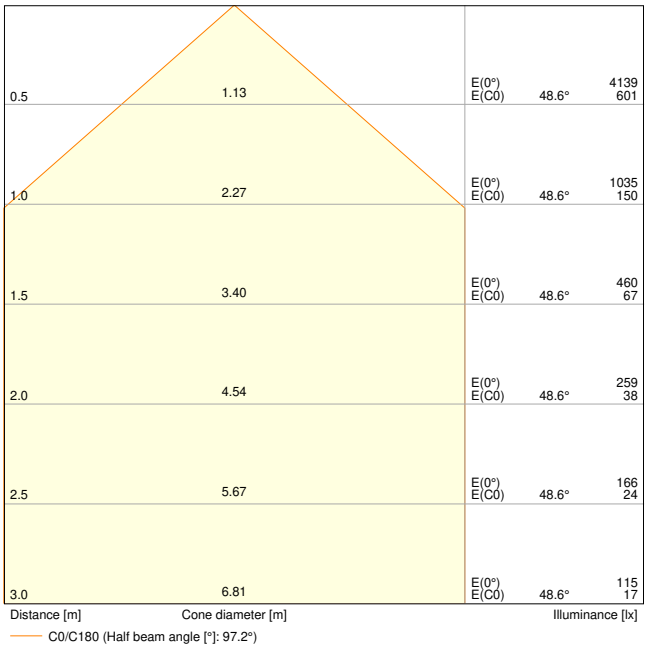
### Electrical data

| | |
|---|---|
| Nominal wattage | 17 W / 11 W |
| Nominal voltage | 220…240 V |
| Mains frequency | 50…60 Hz |
| Nominal current | 75/60 mA |
| Inrush current | 9.96 A |
| Inrush current time $T_{h50}$ | 38.2 µs |
| Max. number of luminaires per miniature circuit breaker B16 | 75 |
| Max. number of luminaires per miniature circuit breaker C10 | 60 |
| Max. number of luminaires per miniature circuit breaker C16 | 96 |
| Power factor λ | > 0.90 |
| Total harmonic distortion | < 20 % |
| Protection class | I |
| Surge capability (L-N) | 4 kV |
| Surge capability (L/N-Ground) | 6 kV |
| Operating mode | Integrated LED driver |

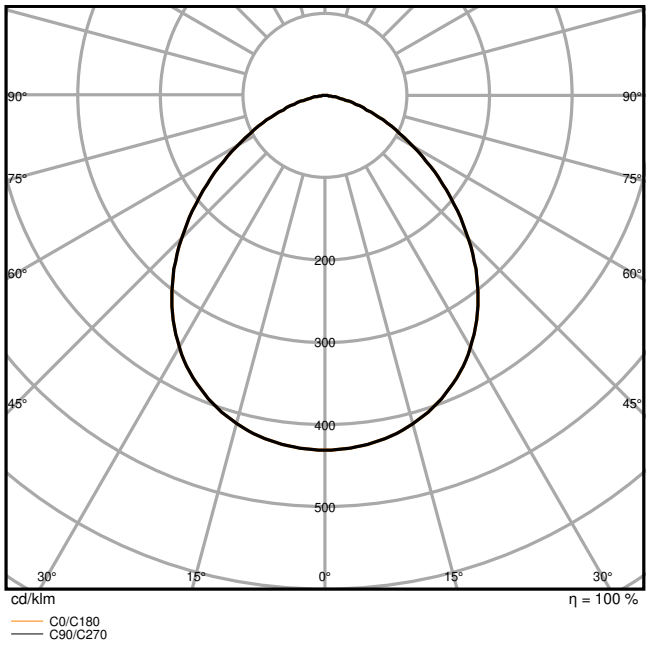
### Photometrical data

| | |
|---|---|
| Luminous flux | 2400 lm / 1600 lm |
| Luminous efficacy | 145 lm/W |
| Color temperature | 4000 K |
| Light color (designation) | Cool White |
| Color rendering index Ra | 80 |
| Standard deviation of color matching | 5 sdcm |
| Stroboscope effect metric (SVM) | ≤0.9 |
| Photobiological safety group acc. to EN62778 | RG1 |
| Photobiological safety group acc. to EN62471 | RG1 |
| Beam angle | 100 ° x 100 ° |


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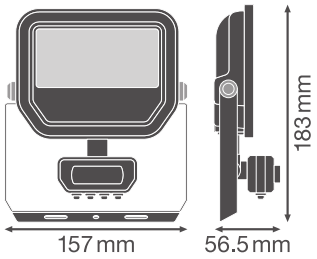

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## Dimensions & Weight

| | |
|---|---|
| Length | 157.00 mm |
| Width | 38.00 mm |
| Height | 183.00 mm |
| Product weight | 576.00 g |
| Cable length | 1000 mm |




FL 20 SN SY100

## Materials & Colors

| | |
|---|---|
| Product color | Black |
| Housing color | Black |


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| | |
|---|---|
| Body material | Aluminum |
| Cover material | Glass |
| Light emitting surface material | Glass |
| Glow Wire Test according to IEC 60695-2-12 | 650 °C |
| Mercury content | 0.0 mg |

## Application & Mounting

| | |
|---|---|
| Ambient temperature range | -30…+50 °C |
| Temperature range at storage | -40…+70 °C |
| Type of connection | Cable, 3-pole |
| Type of protection | IP65 |
| Protection class IK (shock resistance) | IK05 |
| Corrosion resistance class acc. to EN 12944 | C4 |
| Dimmable | No |
| Mounting type | Surface |
| Mounting location | Wall / Ceiling |
| Application environment | Outdoor |
| Adjustable | Yes |
| LED module replaceable | Not replaceable |
| With light source | Yes |

## Lifespan

| | |
|---|---|
| Lifespan L70/B50 at 25 °C | 100000 h [1)] |
| Lifespan L80/B10 at 25 °C | 75000 h [1)] |
| Lifespan L90/B10 at 25 °C | 35000 h |

1) t[h]: L70 / B50 @ 25 °C (Ta), t[h]: L80 / B10 @ 25 °C (Ta), t[h]: L90 / B10 @ 25 °C (Ta)

## Control gear

| | |
|---|---|
| Output current | 133 mA |
| ECG - Output ripple current | < 20 % |

## Sensor

| | |
|---|---|
| Type of sensor | Motion / Light |
| Sensor technology | Passive infrared (PIR) |
| Sensor detection angle | 40 °…160 ° |
| Sensor controlled switching time | 10 s…12 min |
| Detection range of motion sensor | 2…12 m |
| Detection threshold of daylight sensor | 10…2000 lx |
| Sensor IP rating | IP65 |


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## Certificates & Standards

| | |
|---|---|
| Standards | CE / CB / ENEC / EAC / UKCA |
| Luminaire with limited surface temperature, "D sign" | Yes |
| Ball shot safe | No |

## Additional product data

| | |
|---|---|
| Product remark | Available from September 2024 |
| Added function | MULTI SELECT |

## Safety advice

– Max. wind load surface 0.017 $m^2$

## DOWNLOAD DATA

| | Documents and certificates | Document name |
|---|---|---|
| PDF | User Instruction / Safety Instructions | G11193708_UI_Floodlight_Sensor |
| PDF | Legal information | LI_JP_L1D1_T_G11195894 |
| PDF | Legal information | Insert_LSI_Floodlight_Sensor_Photocell_G11195969 |
| PDF | Legal information | Informationstext 18 Abs 4 ElektroG |
| PDF | Legal information | Safety Insert FL PS SY100 |
| PDF | Declarations of conformity | FLOODLIGHT GEN4 |
| PDF | Declarations Of Conformity UKCA | FLOODLIGHT GEN4 |

| | Photometric and lighting design files | Document name |
|---|---|---|
| IES | IES file (IES) | FL 20 SN P 17W 2K4LM 840 PS SY100 BK |
| LDT | LDT file (Eulumdat) | FL 20 SN P 17W 2K4LM 840 PS SY100 BK |
| | UGR file (UGR table) | FL 20 SN P 17W 2K4LM 840 PS SY100 BK |
| | LDC typ cone | FL 20 SN P 17W 2K4LM 840 PS SY100 BK |
| | LDC typ polar | FL 20 SN P 17W 2K4LM 840 PS SY100 BK |


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| | CAD/BIM files | Document name |
|---|---|---|
| | BIM_Revit_3D | Floodlight Sensor G4 |
| | CAD_STEP_3D | FL G4 SEN 17W |

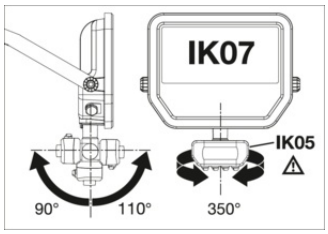
| | Tender texts | Document name |
|---|---|---|
| | Tender documents | FLOODLIGHT SENSOR 20 17W 2K4LM 840 PS SY100 BK-EN |

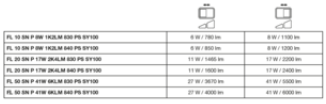
## LOGISTICAL DATA

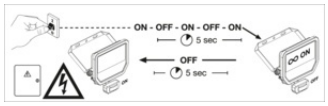
| Product code | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume |
|---|---|---|---|---|
| 4099854309526 | Folding box<br>1 | 69 mm x 162 mm x 193 mm | 649.00 g | 2.16 $dm^3$ |
| 4099854309533 | Shipping box<br>12 | 501 mm x 292 mm x 218 mm | 8418.00 g | 31.89 $dm^3$ |

The mentioned product code describes the smallest quantity unit which can be ordered. One shipping unit can contain one or more single products. When placing an order, for the quantity please enter single or multiples of a shipping unit.

## ADDITIONAL CATALOG INFORMATION

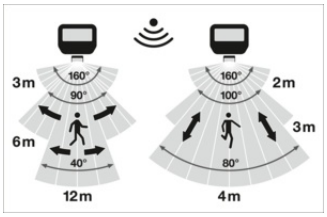











## References / Links

– For Guarantee see www.ledvance.com/guarantee

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