

# PRODUCT DATASHEET

## FL PFM 20 W 4000 K SYM 100 S BK

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



### Areas of application

- Replacement for floodlights with halogen lamps
- Outdoor use (IP65)
- Public areas
- Building facades
- Construction areas
- Gardens, balconies and other outdoor areas

### Product benefits

- Bright, robust and durable
- Demand optimized illumination due to flexible and programmable sensor
- Easy adjustment of sensor range, daylight detection and hold time
- Always-on override, activated via special mains switching pattern
- Safe and very uniform illumination, due to frosted and tempered glass diffuser
- Energy savings of up to 90 % compared to halogen lamp floodlights
- 5 years guarantee

### Product features

- Flexible motion and daylight sensor
- Sensor with 350° pan and 180° tilt
- Reflector-based, symmetric light distribution with 100° x 100° beam angle
- Integrated wide voltage driver, suitable for 100 - 277 V AC
- Surge protection: up to 4 kV (L/N-PE), 2 kV (L-N)
- Mounting bracket with 30° angle and wide rotation area



- Pre-installed, flexible 1 m cable (H05RN-F), wrapped 3 x 1.0 mm<sup>2</sup> single wires

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## TECHNICAL DATA

### Electrical data

|  |                       |
|--|-----------------------|
| Nominal wattage                          | 20.00 W               |
| Nominal voltage                          | 100...277 V           |
| Mains frequency                          | 50...60 Hz            |
| Nominal current                          | 102 mA                |
| Inrush current                           | 7.34 A                |
| Inrush current time $T_{h50}$            | 35.5 $\mu$ s          |
| Max. no. of lum. on circuit break. B16 A | 86                    |
| Max. no. of lum. on circuit break. C10 A | 62                    |
| Max. no. of lum. on circuit break. C16 A | 99                    |
| Power factor $\lambda$                   | > 0.90                |
| Total harmonic distortion                | < 20 %                |
| Protection class                         | I                     |
| Operating mode                           | Integrated LED driver |

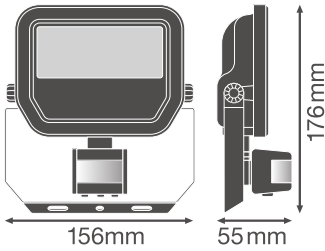
### Photometrical data

|  |                           |
|--|---------------------------|
| Luminous flux                                | 2400 lm                   |
| Luminous efficacy                            | 120 lm/W                  |
| Color temperature                            | 4000 K                    |
| Light color (designation)                    | Cool White                |
| Color rendering index Ra                     | $\geq 80$                 |
| Standard deviation of color matching         | $\leq 5$ sdc <sub>m</sub> |
| Luminous intensity                           | -                         |
| Flickering metric (Pst LM)                   | -                         |
| Stroboscope effect metric (SVM)              | -                         |
| Photobiological safety group acc. to EN62778 | RG1                       |
| Photobiological safety group acc. to EN62471 | RG1                       |
| Beam angle                                   | 100 ° x 100 °             |

### Dimensions & Weight

|                |           |
|----------------|-----------|
| Length         | 176.00 mm |
| Width          | 156.00 mm |
| Height         | 55.00 mm  |
| Product weight | 570.00 g  |

|              |         |
|--------------|---------|
| Cable length | 1000 mm |
|--------------|---------|



Materials & Colors

|  |          |
|--|----------|
| Product color                              | Black    |
| Housing color                              | Black    |
| Body material                              | Aluminum |
| 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) | IK07            |
| 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 | 70000 h |
| Lifespan L80/B10 at 25 °C | 55000 h |
| Lifespan L90/B10 at 25 °C | 35000 h |

|                            |        |
|----------------------------|--------|
| Number of switching cycles | 100000 |
|----------------------------|--------|

Control gear

|                             |        |
|-----------------------------|--------|
| Output current              | 230 mA |
| ECG - Output ripple current | < 50 % |









Sensor

|  |                            |
|--|----------------------------|
| Type of sensor                         | Motion / Light             |
| Sensor technology                      | Passive infrared/Photocell |
| 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                       |

Certificates & Standards

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

DOWNLOAD DATA

| DOWNLOAD DATA   |  |
|---|--|
|  | User instruction                       |
|  | Addon Technical Information            |
|  | Tender documents                       |
|  | Declarations Of Conformity CE          |
|  | IES file (IES)                         |
|  | LDT file (Eulumdat)                    |
|  | R3D file (Relux 3D Model)              |
|  | M4D file (3D Model with rotation axis) |

## DOWNLOAD DATA



ULD file (DIALux)



Packaging insert

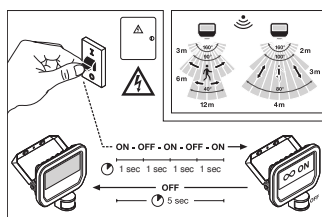
## LOGISTICAL DATA

| Product code  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume                |
|---------------|------------------------------|--------------------------------------|--------------|-----------------------|
| 4058075460959 | Folding box<br>1             | 65 mm x 162 mm x 184 mm              | 652.00 g     | 1.94 dm <sup>3</sup>  |
| 4058075460966 | Shipping box<br>12           | 414 mm x 349 mm x 222 mm             | 8518.00 g    | 32.08 dm <sup>3</sup> |

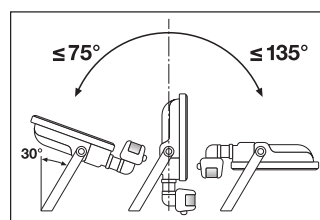
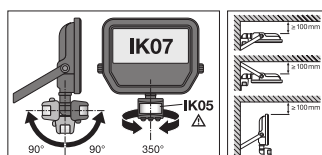
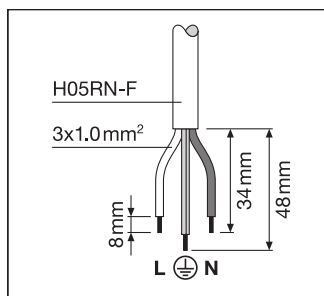
The mentioned product code describes the smallest quantity unit which can be ordered. One shipping unit can contain one or more single products. When placing an order, for the quantity please enter single or multiples of a shipping unit.

## ADDITIONAL CATALOG INFORMATION

|  | SENS  | LUX       | TIME            |
|--|-------|-----------|-----------------|
|  | ~2 m  | < 10 lx   | ~10 sec ± 3 sec |
|  | ~6 m  | < 100 lx  | ~5 min ± 2 min  |
|  | ~12 m | < 2000 lx | ~12 min ± 3 min |



|      | A   | B  | C   | IK    | Beam angle |
|------|-----|----|-----|-------|------------|
| 10 W | 58  | 38 | 5.5 | 2x M5 | 0.012 m²   |
| 20 W | 78  | 58 | 6.5 | 2x M8 | 0.016 m²   |
| 50 W | 108 | 78 | 8.5 | 2x M8 | 0.022 m²   |



## References / Links

– For Guarantee see [www.ledvance.com/guarantee](http://www.ledvance.com/guarantee)

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