

# PRODUCT DATASHEET

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

**FLOODLIGHT SENSOR 20 W | Floodlight with flexible motion and daylight sensor, 20 W power consumption**



### 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

## TECHNICAL DATA

### Electrical data

|  |                       |
|--|-----------------------|
| Nominal wattage                          | 20.00 W               |
| Operating mode                           | Integrated LED driver |
| Nominal voltage                          | 100...277 V           |
| Power factor $\lambda$                   | > 0.90                |
| Mains frequency                          | 50/60 Hz              |
| 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                    |
| Inrush current                           | 7.34 A                |
| Total harmonic distortion                | < 20 %                |
| Inrush current time $T_{h50}$            | 35.5 $\mu$ s          |

### Photometrical data

|                                      |               |
|--------------------------------------|---------------|
| Color temperature                    | 4000 K        |
| Luminous flux                        | 2400 lm       |
| Luminous efficacy                    | 120 lm/W      |
| Standard deviation of color matching | $\leq 5$ sdcn |
| Light color (designation)            | Cool White    |
| Color rendering index Ra             | $\geq 80$     |

### Light technical data

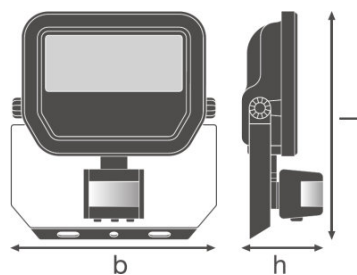
|            |                             |
|------------|-----------------------------|
| Beam angle | 100 ° x 100 ° <sup>1)</sup> |
|------------|-----------------------------|

<sup>1)</sup> ZMP\_110132

### Luminaire sensor data

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

## Dimensions &amp; weight



|                       |          |
|-----------------------|----------|
| <b>Length</b>         | 176.0 mm |
| <b>Width</b>          | 156.0 mm |
| <b>Height</b>         | 55.0 mm  |
| <b>Product weight</b> | 570.00 g |
| <b>Cable length</b>   | 1000 mm  |

## Colors &amp; materials

|                      |          |
|----------------------|----------|
| <b>Body material</b> | Aluminum |
| <b>Product color</b> | Black    |
| <b>Housing color</b> | Black    |

## Temperatures &amp; operating conditions

|                                  |              |
|----------------------------------|--------------|
| <b>Ambient temperature range</b> | -30...+50 °C |
|----------------------------------|--------------|

## Lifespan

|                                   |         |
|-----------------------------------|---------|
| <b>Number of switching cycles</b> | 100000  |
| <b>Lifespan L70/B50 at 25 °C</b>  | 70000 h |
| <b>Lifespan L80/B10 at 25 °C</b>  | 55000 h |
| <b>Lifespan L90/B10 at 25 °C</b>  | 35000 h |

## Additional product data

|                          |                               |
|--------------------------|-------------------------------|
| <b>Mounting type</b>     | Surface                       |
| <b>Mounting location</b> | Wall / Ceiling                |
| <b>Product remark</b>    | Available from September 2020 |

## Capabilities

|                           |               |
|---------------------------|---------------|
| <b>Adjustable</b>         | Yes           |
| <b>Dimmable</b>           | No            |
| <b>Type of connection</b> | Cable, 3-pole |

|                               |                 |
|-------------------------------|-----------------|
| <b>LED module replaceable</b> | Not replaceable |
|-------------------------------|-----------------|

Certificates & standards

|  |                     |
|--|---------------------|
| <b>Protection class IK (shock resistance)</b>                | IK07                |
| <b>Glow Wire Test according to IEC 60695-2-12</b>            | 650 °C              |
| <b>Photobiological safety group EN62778</b>                  | RG1                 |
| <b>Photobio. safety group acc. to EN62471</b>                | RG1                 |
| <b>Protection class</b>                                      | I                   |
| <b>Type of protection</b>                                    | IP65                |
| <b>Luminaire with limited surface temperature, class "D"</b> | No                  |
| <b>Standards</b>   | CE/CB/ENEC/EAC/RoHS |

Logistical data

|                                     |              |
|-------------------------------------|--------------|
| <b>Temperature range at storage</b> | -40...+70 °C |
|-------------------------------------|--------------|

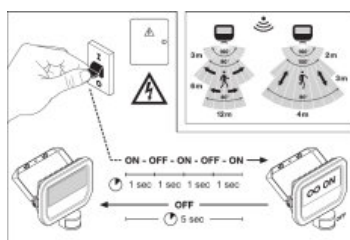
LOGISTICAL DATA

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

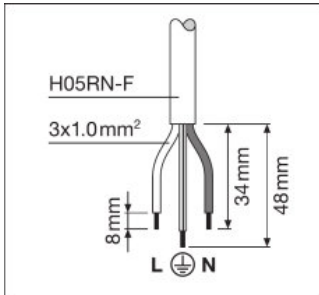
The mentioned product code describes the smallest quantity unit which can be ordered. One shipping unit can contain one or more single products. When placing an order, for the quantity please enter single or multiples of a shipping unit.

ADDITIONAL CATALOG INFORMATION

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



|      | A   | B  | C   | IP    | IP                   |
|------|-----|----|-----|-------|----------------------|
| 10 W | 58  | 35 | 0.5 | 2x MS | 0.012 m <sup>2</sup> |
| 20 W | 78  | 53 | 0.5 | 2x MS | 0.016 m <sup>2</sup> |
| 50 W | 108 | 73 | 0.5 | 2x MS | 0.032 m <sup>2</sup> |



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## REFERENCES / LINKS

For Guarantee see

▶ [www.ledvance.com/guarantee](http://www.ledvance.com/guarantee)

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