

PRODUCT DATASHEET

FL PFM 50 W 4000 K SYM 100 S BK

FLOODLIGHT SENSOR 50 W | Floodlight with flexible motion and daylight sensor, up to 6000 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
- No upper light output ratio (ULOR 0%) when mounted at 0° tilt
- 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)



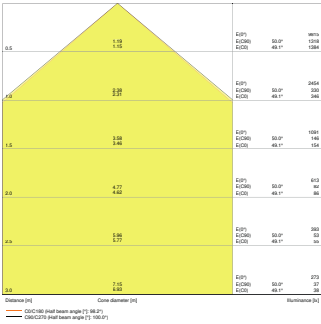
- Mounting bracket with 30° angle and wide rotation area
- Breather membrane to optimize air exchange, without compromising IP protection
- Pre-installed, flexible 1 m cable (H05RN-F), wrapped 3 x 1.0 mm² single wires

TECHNICAL DATA**Electrical data**

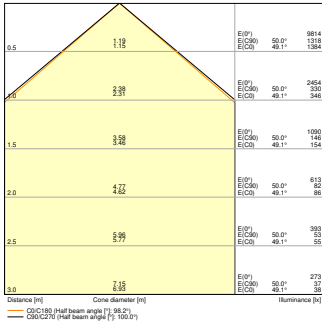
Nominal wattage	50.00 W
Nominal voltage	100...277 V
Mains frequency	50...60 Hz
Nominal current	248 mA
Inrush current	9.6 A
Inrush current time T_{h50}	46.5 μ s
Max. number of luminaires per miniature circuit breaker B16	35
Max. number of luminaires per miniature circuit breaker C10	25
Max. number of luminaires per miniature circuit breaker C16	41
Power factor λ	> 0.90
Total harmonic distortion	< 20 %
Protection class	I
Operating mode	Integrated LED driver

Photometrical data

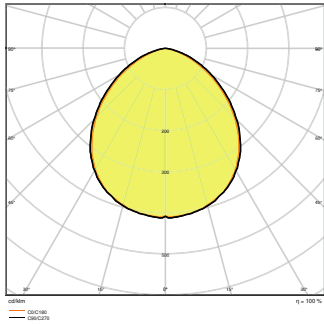
Luminous flux	6000 lm
Luminous efficacy	120 lm/W
Color temperature	4000 K
Light color (designation)	Cool White
Color rendering index Ra	≥ 80
Standard deviation of color matching	≤ 5 sdc _m
Luminous intensity	-
Flickering metric (Pst LM)	-
Stroboscope effect metric (SVM)	-
Photobiological safety group acc. to EN62778	RG1
Photobiological safety group acc. to EN62471	RG1
Beam angle	100 ° x 100 °



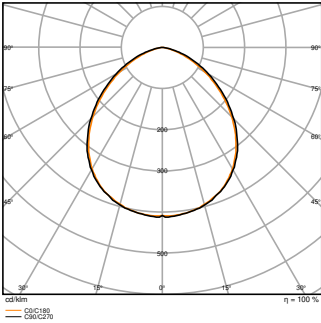
FL PFM 50W4000K SYM 100 S BK



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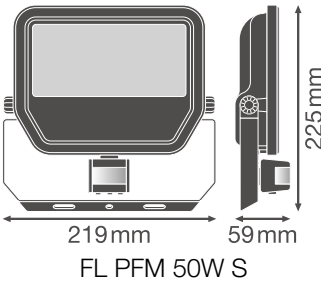
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Dimensions & Weight

Length	225.00 mm
Width	219.00 mm
Height	59.00 mm
Product weight	1060.00 g
Cable length	1000 mm



Materials & Colors

Product color	Black
Housing color	Black
RAL Color (most similar)	RAL 9017
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
With light source	Yes
Replaceable light source	No

Lifespan

Lifespan L70/B50 at 25 °C	70000 h ¹⁾
Lifespan L80/B10 at 25 °C	55000 h ¹⁾
Lifespan L80/B50 at 25 °C	55000 h
Lifespan L90/B10 at 25 °C	35000 h
Number of switching cycles	100000

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	460 mA
ECG - Output ripple current	< 50 %

Sensor

Type of sensor	Motion / Light
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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 / EPD
Luminaire with limited surface temperature, "D sign"	No
Ball shot safe	No
EPD	LEDV-00009-V01.01-EN

Safety advice

- All electrical connections must be made by a qualified person.
- The external flexible cable or cord of this luminaire cannot be replaced; if the cord is damaged, the luminaire must be disposed of.
- Terminal block not included. Installation must be made by a qualified person.
- Caution, risk of electric shock.
- Product in protection class I. All electrically conductive, metallic housing parts that can absorb voltage during operation or during maintenance in the event of a fault must be continuously connected to the protective earthing conductor.

DOWNLOAD DATA

Documents and certificates		Document name
	User instruction / safety instructions	FLOODLIGHT SENSOR
	Legal information	LSI FL PFM SYM
	Legal information	FL PFM SYM
	Legal information	Informationstext 18 Abs 4 ElektroG
	Declarations of conformity	FL PFM SENSOR
	EPD	EPD EN FLOODLIGHT GEN 3 SENSOR

Photometric and lighting design files		Document name
	IES file (IES)	FL PFM 50W4000K SYM 100 S BK
	IES file (IES)	FL PFM 50W 4000K SYM 100 S BK
	LDT file (Eulumdat)	FL PFM 50W4000K SYM 100 S BK
	LDT file (Eulumdat)	FL PFM 50W 4000K SYM 100 S BK
	ULD file (DIALux)	FL PFM 50W-4000K SYM 100 S BK
	ROLF file (RELUX)	FL PFM 50W-4000K
	UGR file (UGR table)	FL PFM 50W4000K SYM 100 S BK
	UGR file (UGR table)	FL PFM 50W 4000K SYM 100 S BK
	Light distribution curve type cone	FL PFM 50W4000K SYM 100 S BK
	Light distribution curve type cone	FL PFM 50W 4000K SYM 100 S BK
	Light distribution curve type polar	FL PFM 50W4000K SYM 100 S BK
	Light distribution curve type polar	FL PFM 50W 4000K SYM 100 S BK
CAD/BIM files		Document name
	BIM Revit 3D	Floodlight Sensor G3
	CAD STEP 3D	FL G3 SEN 50W
Tender texts		Document name
	Tender documents	FLOODLIGHT SENSOR 50 W 4000 K SYM 100 S BK-EN

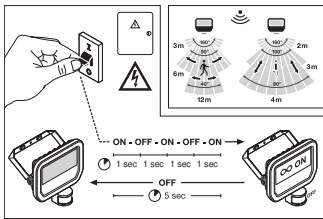
LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4058075461031	Folding box 1	65 mm x 225 mm x 233 mm	1181.00 g	3.41 dm³
4058075461048	Shipping box 8	459 mm x 271 mm x 249 mm	10142.00 g	30.97 dm³

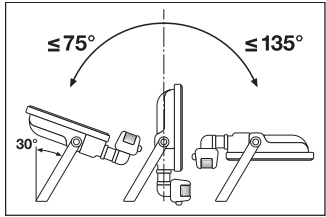
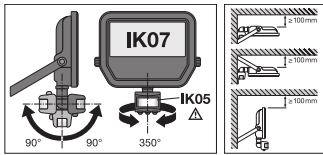
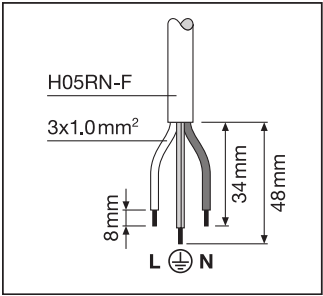
The mentioned product code describes the smallest quantity unit which can be ordered. One shipping unit can contain one or more single products. When placing an order, for the quantity please enter single or multiples of a shipping unit.

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	Key	Icon
10W	98	38	5.5	2x M5	0.012 m²
20W	78	58	6.5	2x M8	0.016 m²
50W	108	78	8.5	2x M8	0.032 m²



References / Links

– For Guarantee see www.ledvance.com/guarantee

DISCLAIMER

Subject to change without notice. Errors and omission excepted. Always make sure to use the most recent release.