PRODUCT DATASHEET
FL 50 SN P 41W 6KLM 830 PS SY100 WT

FLOODLIGHT SENSOR 50 | Floodlight with flexible motion and daylight sensor, up to 6000 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 lumen 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
- 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

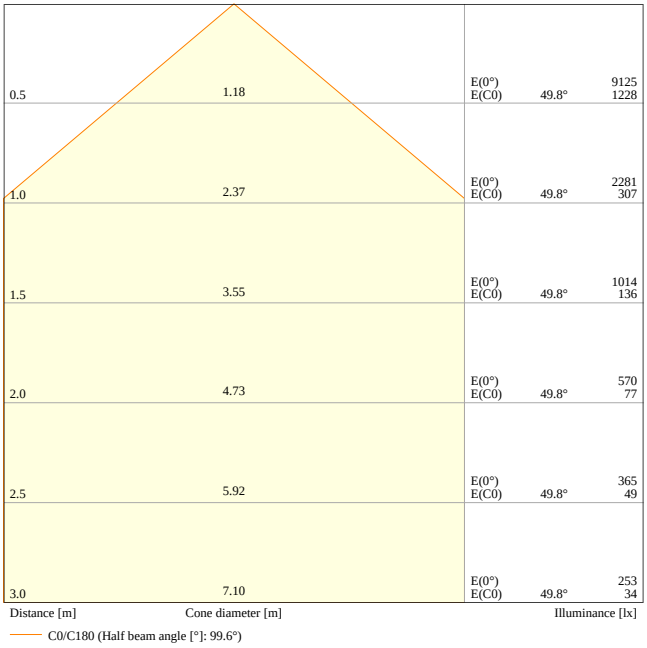
Electrical data

Nominal wattage	41 W / 27 W
Nominal voltage	220…240 V
Mains frequency	50…60 Hz
Nominal current	185/130 mA
Inrush current	37.96 A
Inrush current time T_{h50}	33.8 µs
Max. number of luminaires per miniature circuit breaker B16	19
Max. number of luminaires per miniature circuit breaker C10	15
Max. number of luminaires per miniature circuit breaker C16	25
Power factor λ	> 0.90
Maximum 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

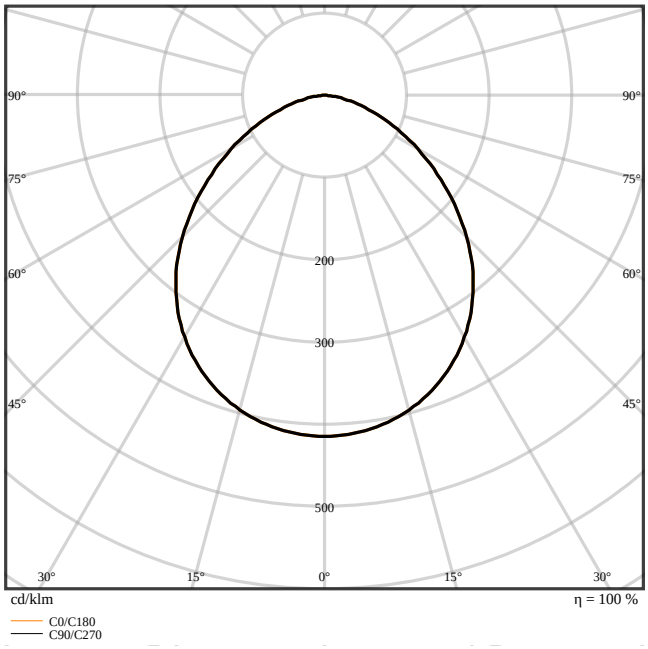
Photometrical data

Luminous flux	5500 lm / 3670 lm
Luminous efficacy	133 lm/W
Color temperature	3000 K
Light color (designation)	Warm 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	RG0
Photobiological safety group acc. to EN62471	RG0
Beam angle	100 ° x 100 °

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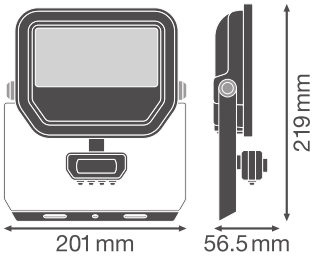
Adjustable attributes

Nominal wattage	Color temperature	Luminous flux	Luminous efficacy
41 W	3000 K	5500 lm	133 lm/W
27 W	3000 K	3670 lm	133 lm/W

Dimensions & Weight

Length	201.00 mm
Width	57.00 mm
Height	219.00 mm
Product weight	888.00 g
Cable length	1000 mm

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FL 50 SN SY100

Materials & Colors

Product color	White
Housing color	White
RAL Color (most similar)	RAL 9003
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
Mechanically adjustable	Yes
With light source	Yes
Replaceable light source	No

Lifespan

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

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Lifespan L80/B50 at 25 °C	70000 h
Lifespan L90/B10 at 25 °C	35000 h [1)]

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	320 mA
Output ripple current (100 Hz)	< 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

Certificates & Standards

Standards	CE / CB / ENEC / EAC / UKCA / EPD
Luminaire with limited surface temperature, "D sign"	Yes
Ball shot safe	No
EPD	LEDV-00031-V01.01-EN

Additional product data

Added function	MULTI LUMEN

Safety advice

– Max. wind load surface 0.027 m^2

DOWNLOAD DATA

	Documents and certificates	Document name
PDF	User instruction / safety instructions	G11193708_UI_Floodlight_Sensor
PDF	Legal information	Insert_LSI_Floodlight_Sensor_Photocell_G11195969
PDF	Legal information	Informationstext 18 Abs 4 ElektroG
PDF	Legal information	Safety Insert G11205496
PDF	Legal information	Legal Insert G11277401

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	Documents and certificates	Document name
PDF	Declarations of conformity	FLOODLIGHT GEN4
PDF	Declarations of conformity UKCA	FLOODLIGHT GEN4
PDF	EPD	EPD EN FLOODLIGHT GEN 4 LP SENSOR

	Photometric and lighting design files	Document name
IES	IES file (IES)	FL 50 SN P 41W 6KLM 830 PS SY100 WT
LDT	LDT file (Eulumdat)	FL 50 SN P 41W 6KLM 830 PS SY100 WT
ULD	ULD file (DIALux)	FL 50 SN P 41W 6KLM 830 PS SY100WT
ROLF	ROLF file (RELUX)	FL 50 SN P 41W 6KLM 830 PS SY100WT
	UGR file (UGR table)	FL 50 SN P 41W 6KLM 830 PS SY100 WT
	Light distribution curve type cone	FL 50 SN P 41W 6KLM 830 PS SY100 WT
	Light distribution curve type polar	FL 50 SN P 41W 6KLM 830 PS SY100 WT

	CAD/BIM files	Document name
RFA	BIM Revit 3D	Floodlight Sensor G4
STEP	CAD STEP 3D	FL G4 SEN 41W

	Tender texts	Document name
TXT	Tender documents	FLOODLIGHT SENSOR 50 41W 6KLM 830 PS SY100 WT-EN

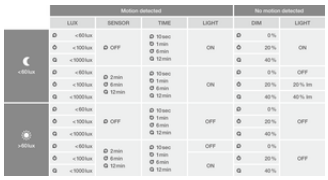
LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4099854306822	Folding box 1	69 mm x 206 mm x 229 mm	985.00 g	3.26 dm^3
4099854306839	Shipping box 8	426 mm x 292 mm x 254 mm	8493.00 g	31.60 dm^3

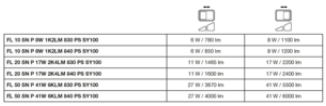
The mentioned product code describes the smallest quantity unit which can be ordered. One shipping unit can contain one or more single products. When placing an order, for the quantity please enter single or multiples of a shipping unit.

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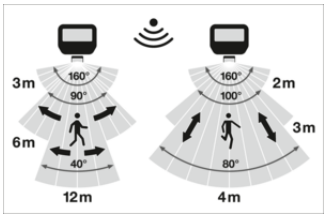
ADDITIONAL CATALOG INFORMATION



	Motion detected				No motion detected	
	LUX	SENSOR	TIME	LIGHT	DIM	LIGHT
<60lux	<60lux	OFF	10sec 1min 6min 12min	ON	0%	ON
	<100lux				20%	
	<1000lux				40%	
	<60lux	2min 6min 12min	10sec 1min 6min 12min	ON	0%	OFF
	<100lux				20%	20% lm
	<1000lux				40%	40% lm
>60lux	<60lux	OFF	10sec 1min 6min 12min	OFF	0%	OFF
	<100lux				20%	
	<1000lux				40%	
	<60lux	2min 6min 12min	10sec 1min 6min 12min	OFF	0%	
	<100lux			ON	20%	OFF
	<1000lux				40%	



FL 10 SN P 8W 1K2LM 830 PS SY100	6 W / 780 lm	8 W / 1100 lm
FL 10 SN P 8W 1K2LM 840 PS SY100	6 W / 850 lm	8 W / 1200 lm
FL 20 SN P 17W 2K4LM 830 PS SY100	11 W / 1485 lm	17 W / 2200 lm
FL 20 SN P 17W 2K4LM 840 PS SY100	11 W / 1650 lm	17 W / 2400 lm
FL 50 SN P 41W 6KLM 830 PS SY100	27 W / 3670 lm	41 W / 5500 lm
FL 50 SN P 41W 6KLM 840 PS SY100	27 W / 4000 lm	41 W / 6000 lm



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.

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