

PRODUCT DATASHEET

FL 10 SN P 8W 1K2LM 840 PS SY100 BK

FLOODLIGHT SENSOR 10 | Floodlight with flexible motion and daylight sensor, up to 1200 lm



PERFORMANCE
CLASS

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

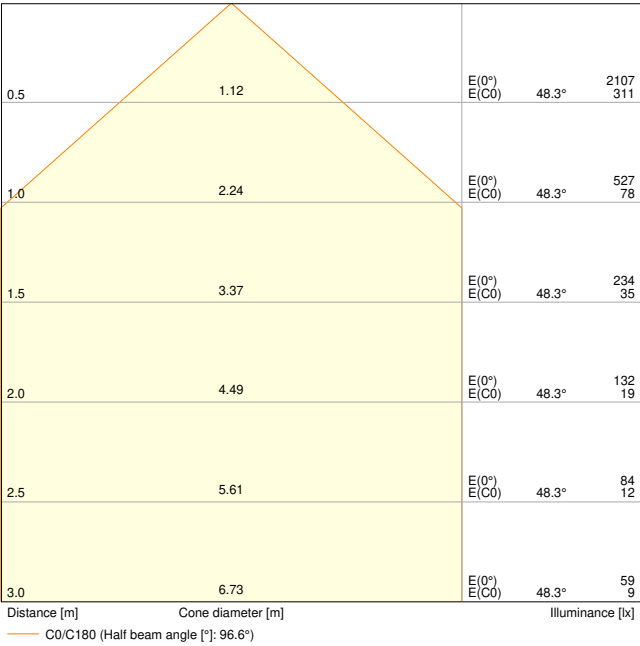
- Flexible motion and daylight sensor
- Sensor with 350° pan and 200° tilt
- High luminous efficacy: up to 145 lm/W
- Type of protection: IP65
- Pre-installed, flexible 1 m cable (H05RN-F), wrapped 3 x 1.0 mm² single wires
- Reflector-based, symmetric light distribution with 100° x 100° beam angle
- Mounting bracket with 30° angle and wide rotation area
- Integrated voltage driver, suitable for 220 - 240 V AC

TECHNICAL DATA**Electrical data**

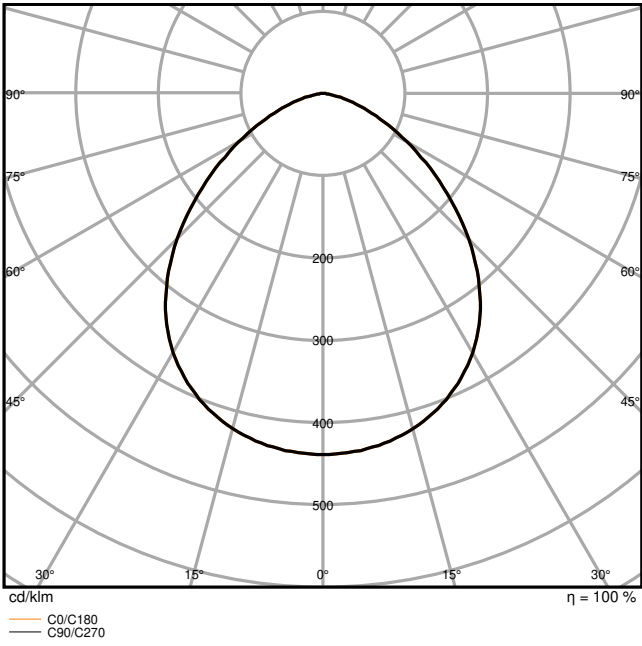
Nominal wattage	8 W / 6 W
Nominal voltage	220...240 V
Mains frequency	50...60 Hz
Nominal current	40/30 mA
Inrush current	8.9 A
Inrush current time T_{h50}	52.2 μ s
Max. number of luminaires per miniature circuit breaker B16	84
Max. number of luminaires per miniature circuit breaker C10	67
Max. number of luminaires per miniature circuit breaker C16	107
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	1200 lm / 850 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 sdc _m
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 °



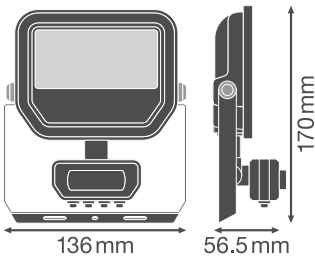
FL 10 SN P 8W 1K2LM 840 PS SY100 BK



FL 10 SN P 8W 1K2LM 840 PS SY100 BK

Dimensions & Weight

Length	136.00 mm
Width	57.00 mm
Height	170.00 mm
Product weight	478.00 g
Cable length	1000 mm



FL 10 SN SY100

Materials & Colors

Product color	Black
Housing color	Black

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
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⁾
Lifespan L80/B50 at 25 °C	70000 h
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	65 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
------------------	------

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
Replaceable light source (EPREL)	Not replaceable

Additional product data

Added function	MULTI SELECT
----------------	--------------

Safety advice

– Max. wind load surface 0.014 m²

DOWNLOAD DATA

Documents and certificates		Document name
	User instruction / safety instructions	G11193708_UI_Floodlight_Sensor
	Legal information	Insert_LSI_Floodlight_Sensor_Photocell_G11195969
	Legal information	Informationstext 18 Abs 4 ElektroG
	Legal information	Safety Insert G11205496
	Legal information	Legal Insert FLOODLIGHT LUMS
	Declarations of conformity	FLOODLIGHT GEN4
	Declarations of conformity UKCA	FLOODLIGHT GEN4
Photometric and lighting design files		Document name
	IES file (IES)	FL 10 SN P 8W 1K2LM 840 PS SY100 BK
	LDT file (Eulumdat)	FL 10 SN P 8W 1K2LM 840 PS SY100 BK
	ULD file (DIALux)	FL 10 SN P 8W 1K2LM 840 PS SY100BK

Photometric and lighting design files		Document name
	ROLF file (RELUX)	FL 10 SN P 8W 1K2LM 840 PS SY100BK
	UGR file (UGR table)	FL 10 SN P 8W 1K2LM 840 PS SY100 BK
	Light distribution curve type cone	FL 10 SN P 8W 1K2LM 840 PS SY100 BK
	Light distribution curve type polar	FL 10 SN P 8W 1K2LM 840 PS SY100 BK
CAD/BIM files		Document name
	BIM Revit 3D	Floodlight Sensor G4
	CAD STEP 3D	FL G4 SEN 8W
Tender texts		Document name
	Tender documents	FLOODLIGHT SENSOR 10 8W 1K2LM 840 PS SY100 BK-EN

LOGISTICAL DATA

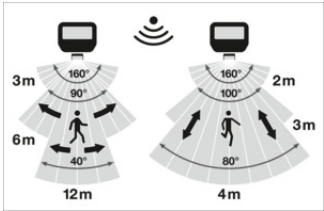
Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4099854306808	Folding box 1	69 mm x 141 mm x 180 mm	542.00 g	1.75 dm ³
4099854306815	Shipping box 12	438 mm x 292 mm x 205 mm	7067.00 g	26.22 dm ³

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

Medium dimmable				No neutral dimmable			
LINE	BEHAVIOR	TIME	LIGHT	LINE	TIME	LIGHT	
C	+100%a	0	0	0	0	0%	
	+100%a	0	ON	0	0	20%	ON
	+100%a	0	ON	0	0	40%	
	+100%a	0	ON	0	0	5%	OFF
C	+100%a	0	ON	0	0	20%	20% 3s
	+100%a	0	ON	0	0	40%	40% 3s
	+100%a	0	ON	0	0	5%	
	+100%a	0	OFF	0	0	20%	OFF
C	+100%a	0	ON	0	0	40%	
	+100%a	0	ON	0	0	5%	OFF
	+100%a	0	ON	0	0	20%	OFF
	+100%a	0	ON	0	0	40%	

FL 10 SN P 8W 1K2LM 840 PS SY100	0 W / 1000 lm	8 W / 1000 lm
FL 10 SN P 8W 1K2LM 840 PS SY100	0 W / 1000 lm	8 W / 1000 lm
FL 10 SN P 17W 2KLM 840 PS SY100	11 W / 1400 lm	17 W / 2000 lm
FL 10 SN P 17W 2KLM 840 PS SY100	11 W / 1400 lm	17 W / 2000 lm
FL 10 SN P 41W 3KLM 840 PS SY100	27 W / 3070 lm	41 W / 5000 lm
FL 10 SN P 41W 3KLM 840 PS SY100	27 W / 3070 lm	41 W / 5000 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.

