



PRODUCT DATASHEET

FL 20 SN P 17W 2K4LM 830 PS SY100 WT

FLOODLIGHT SENSOR 20 | Floodlight with flexible motion and daylight sensor, up to 2400 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
- 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

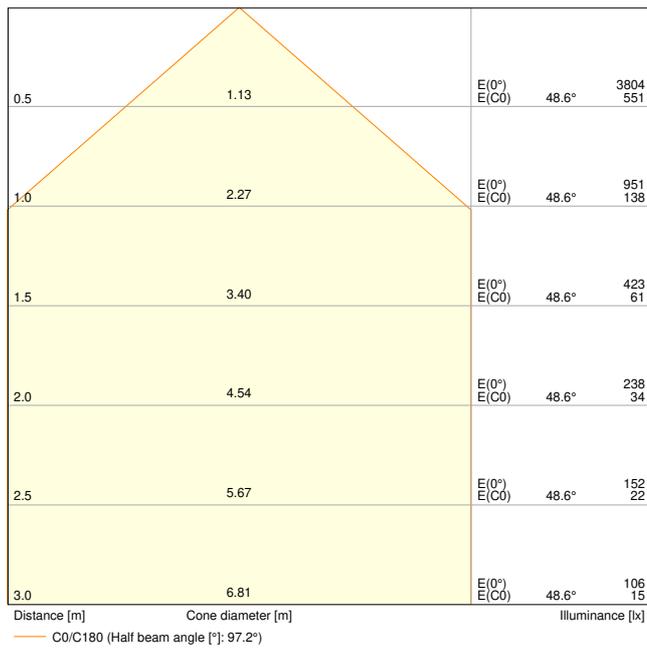
TECHNICAL DATA

Electrical data

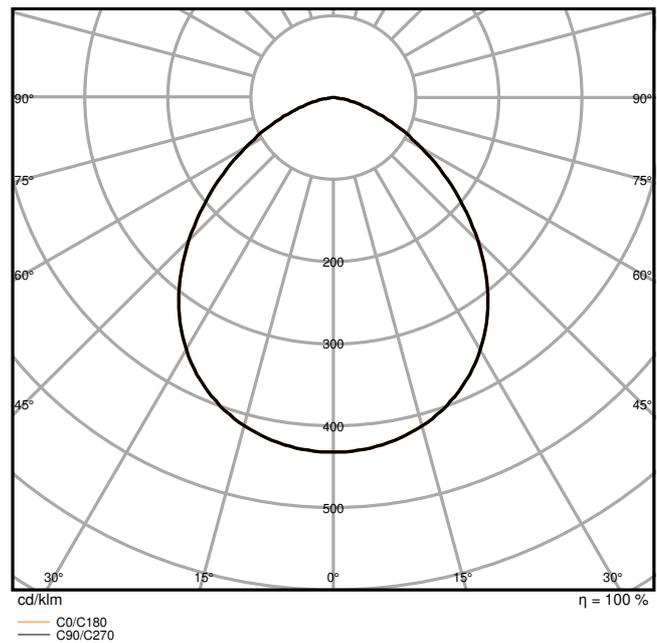
Nominal wattage	17 W / 11 W
Nominal voltage	220...240 V
Mains frequency	50...60 Hz
Nominal current	75/60 mA
Inrush current	9.96 A
Inrush current time T_{h50}	38.2 μ s
Max. number of luminaires per miniature circuit breaker B16	75
Max. number of luminaires per miniature circuit breaker C10	60
Max. number of luminaires per miniature circuit breaker C16	96
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	2200 lm / 1465 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 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 °



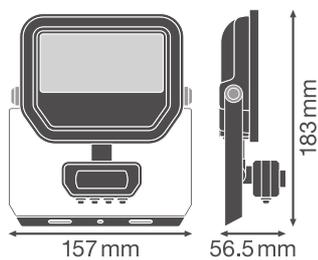
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Dimensions & Weight

Length	157.00 mm
Width	38.00 mm
Height	183.00 mm
Product weight	576.00 g
Cable length	1000 mm



FL 20 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
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	133 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

Additional product data

Added function	MULTI SELECT
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Safety advice

– Max. wind load surface 0.017 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 G11277401
	Declarations of conformity	FLOODLIGHT GEN4
	Declarations of conformity UKCA	FLOODLIGHT GEN4
	EPD	EPD EN FLOODLIGHT GEN 4 LP SENSOR
Photometric and lighting design files		Document name
	IES file (IES)	FL 20 SN P 17W 2K4LM 830 PS SY100 WT
	LDT file (Eulumdat)	FL 20 SN P 17W 2K4LM 830 PS SY100 WT

Photometric and lighting design files		Document name
	ULD file (DIALux)	FL 20 SN P 17W 2K4LM 830 PSSY100WT
	ROLF file (RELUX)	FL 20 SN P 17W 2K4LM 830 PSSY100WT
	UGR file (UGR table)	FL 20 SN P 17W 2K4LM 830 PS SY100 WT
	Light distribution curve type cone	FL 20 SN P 17W 2K4LM 830 PS SY100 WT
	Light distribution curve type polar	FL 20 SN P 17W 2K4LM 830 PS SY100 WT
CAD/BIM files		Document name
	BIM Revit 3D	Floodlight Sensor G4
	CAD STEP 3D	FL G4 SEN 17W
Tender texts		Document name
	Tender documents	FLOODLIGHT SENSOR 20 17W 2K4LM 830 PS SY100 WT-EN

LOGISTICAL DATA

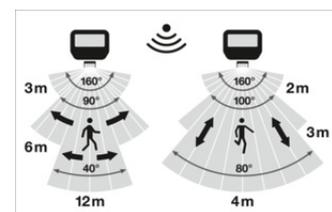
Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4099854309465	Folding box 1	69 mm x 162 mm x 193 mm	649.00 g	2.16 dm ³
4099854309472	Shipping box 12	501 mm x 292 mm x 218 mm	8418.00 g	31.89 dm ³

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

Beam spread	Beam diameter	Beam length	Beam width	Beam height
0°	1000mm	1000mm	1000mm	1000mm
5°	1000mm	1000mm	1000mm	1000mm
10°	1000mm	1000mm	1000mm	1000mm
15°	1000mm	1000mm	1000mm	1000mm
20°	1000mm	1000mm	1000mm	1000mm
25°	1000mm	1000mm	1000mm	1000mm
30°	1000mm	1000mm	1000mm	1000mm
35°	1000mm	1000mm	1000mm	1000mm
40°	1000mm	1000mm	1000mm	1000mm
45°	1000mm	1000mm	1000mm	1000mm
50°	1000mm	1000mm	1000mm	1000mm
55°	1000mm	1000mm	1000mm	1000mm
60°	1000mm	1000mm	1000mm	1000mm
65°	1000mm	1000mm	1000mm	1000mm
70°	1000mm	1000mm	1000mm	1000mm
75°	1000mm	1000mm	1000mm	1000mm
80°	1000mm	1000mm	1000mm	1000mm
85°	1000mm	1000mm	1000mm	1000mm
90°	1000mm	1000mm	1000mm	1000mm
95°	1000mm	1000mm	1000mm	1000mm
100°	1000mm	1000mm	1000mm	1000mm
105°	1000mm	1000mm	1000mm	1000mm
110°	1000mm	1000mm	1000mm	1000mm
115°	1000mm	1000mm	1000mm	1000mm
120°	1000mm	1000mm	1000mm	1000mm
125°	1000mm	1000mm	1000mm	1000mm
130°	1000mm	1000mm	1000mm	1000mm
135°	1000mm	1000mm	1000mm	1000mm
140°	1000mm	1000mm	1000mm	1000mm
145°	1000mm	1000mm	1000mm	1000mm
150°	1000mm	1000mm	1000mm	1000mm
155°	1000mm	1000mm	1000mm	1000mm
160°	1000mm	1000mm	1000mm	1000mm

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30°	1000mm	1000mm	1000mm	1000mm
35°	1000mm	1000mm	1000mm	1000mm
40°	1000mm	1000mm	1000mm	1000mm
45°	1000mm	1000mm	1000mm	1000mm
50°	1000mm	1000mm	1000mm	1000mm
55°	1000mm	1000mm	1000mm	1000mm
60°	1000mm	1000mm	1000mm	1000mm
65°	1000mm	1000mm	1000mm	1000mm
70°	1000mm	1000mm	1000mm	1000mm
75°	1000mm	1000mm	1000mm	1000mm
80°	1000mm	1000mm	1000mm	1000mm
85°	1000mm	1000mm	1000mm	1000mm
90°	1000mm	1000mm	1000mm	1000mm
95°	1000mm	1000mm	1000mm	1000mm
100°	1000mm	1000mm	1000mm	1000mm
105°	1000mm	1000mm	1000mm	1000mm
110°	1000mm	1000mm	1000mm	1000mm
115°	1000mm	1000mm	1000mm	1000mm
120°	1000mm	1000mm	1000mm	1000mm
125°	1000mm	1000mm	1000mm	1000mm
130°	1000mm	1000mm	1000mm	1000mm
135°	1000mm	1000mm	1000mm	1000mm
140°	1000mm	1000mm	1000mm	1000mm
145°	1000mm	1000mm	1000mm	1000mm
150°	1000mm	1000mm	1000mm	1000mm
155°	1000mm	1000mm	1000mm	1000mm
160°	1000mm	1000mm	1000mm	1000mm



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.