

PRODUCT DATASHEET

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

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



PERFOR-
MANCE
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	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	Black
Housing color	Black

RAL Color (most similar)	RAL 9017
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
Replaceable light source (EPREL)	Not replaceable

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 G11257402
	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 BK
	LDT file (Eulumdat)	FL 20 SN P 17W 2K4LM 830 PS SY100 BK

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4099854309489	Folding box 1	69 mm x 162 mm x 193 mm	649.00 g	2.16 dm³
4099854309496	Shipping box 12	501 mm x 292 mm x 218 mm	8418.00 g	31.89 dm³

Main direction				Secondary direction	
LUX	SENSOR	TIME	LIGHT	DATA	LIGHT
0	<85lux	0 15min	ON	0	0%
0	<100lux	0 15min	ON	0	25%
0	<1000lux	0 15min	ON	0	40%
0	<85lux	0 2min	ON	0	0%
0	<100lux	0 5min	ON	0	25%
0	<1000lux	0 15min	ON	0	40%
0	<85lux	0 15min	OFF	0	0%
0	<100lux	0 15min	OFF	0	25%
0	<1000lux	0 15min	OFF	0	40%

PL 10 50 P 8W 100LM 800 PS 5Y120	0 30° / 1000 lm	0 30° / 1000 lm
PL 10 50 P 8W 100LM 800 PS 5Y120	0 30° / 800 lm	0 30° / 1000 lm
PL 20 50 P 17W 200LM 800 PS 5Y120	0 30° / 1600 lm	0 30° / 2000 lm
PL 20 50 P 17W 200LM 800 PS 5Y120	0 30° / 1600 lm	0 30° / 2000 lm
PL 30 50 P 25W 300LM 800 PS 5Y120	0 30° / 2400 lm	0 30° / 3000 lm
PL 30 50 P 25W 300LM 800 PS 5Y120	0 30° / 2400 lm	0 30° / 3000 lm
PL 50 50 P 41W 500LM 800 PS 5Y120	0 30° / 4000 lm	0 30° / 5000 lm
PL 50 50 P 41W 500LM 800 PS 5Y120	0 30° / 4000 lm	0 30° / 5000 lm

– For Guarantee see www.ledvance.com/guarantee

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