

PRODUCT FAMILY DATASHEET

FLOODLIGHT SENSOR 20 W

Floodlight with flexible motion and daylight sensor, up to 2400 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
- 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
- Pre-installed, flexible 1 m cable (H05RN-F), wrapped 3 x 1.0 mm² single wires



TECHNICAL DATA

Electrical data

Product description	Nominal wattage	Nominal voltage	Mains frequency	Nominal current	Inrush current
FL PFM 20 W 3000 K SYM 100 S WT	20.00 W	100...277 V	50...60 Hz	102 mA	7.34 A
FL PFM 20 W 3000 K SYM 100 S BK	20.00 W	100...277 V	50...60 Hz	102 mA	7.34 A
FL PFM 20 W 4000 K SYM 100 S WT	20.00 W	100...277 V	50...60 Hz	102 mA	7.34 A
FL PFM 20 W 4000 K SYM 100 S BK	20.00 W	100...277 V	50...60 Hz	102 mA	7.34 A

Product description	Inrush current time T_{h50}	Max. no. of lum. on circuit break. B16 A	Max. no. of lum. on circuit break. C10 A	Max. no. of lum. on circuit break. C16 A	Power factor λ
FL PFM 20 W 3000 K SYM 100 S WT	35.5 μ s	86	62	99	> 0.90
FL PFM 20 W 3000 K SYM 100 S BK	35.5 μ s	85	62	99	> 0.90
FL PFM 20 W 4000 K SYM 100 S WT	35.5 μ s	86	62	99	> 0.90
FL PFM 20 W 4000 K SYM 100 S BK	35.5 μ s	86	62	99	> 0.90

Product description	Total harmonic distortion	Protection class	Operating mode
FL PFM 20 W 3000 K SYM 100 S WT	< 20 %	I	Integrated LED driver
FL PFM 20 W 3000 K SYM 100 S BK	< 20 %	I	Integrated LED driver
FL PFM 20 W 4000 K SYM 100 S WT	< 20 %	I	Integrated LED driver
FL PFM 20 W 4000 K SYM 100 S BK	< 20 %	I	Integrated LED driver

Photometrical data

Product description	Luminous flux	Luminous efficacy	Color temperature	Light color (designation)	Color rendering index Ra
FL PFM 20 W 3000 K SYM 100 S WT	2200 lm	110 lm/W	3000 K	Warm White	\geq 80
FL PFM 20 W 3000 K SYM 100 S BK	2200 lm	110 lm/W	3000 K	Warm White	\geq 80
FL PFM 20 W 4000 K SYM 100 S WT	2400 lm	120 lm/W	4000 K	Cool White	\geq 80



Product description	Luminous flux	Luminous efficacy	Color temperature	Light color (designation)	Color rendering index Ra
FL PFM 20 W 4000 K SYM 100 S BK	2400 lm	120 lm/W	4000 K	Cool White	≥80

Product description	Standard deviation of color matching	Luminous intensity	Flickering metric (Pst LM)	Stroboscope effect metric (SVM)	Photobiological safety group acc. to EN62778
FL PFM 20 W 3000 K SYM 100 S WT	≤5 sdc	-	-	-	RG1
FL PFM 20 W 3000 K SYM 100 S BK	≤5 sdc	-	-	-	RG1
FL PFM 20 W 4000 K SYM 100 S WT	≤5 sdc	-	-	-	RG1
FL PFM 20 W 4000 K SYM 100 S BK	≤5 sdc	-	-	-	RG1

Product description	Photobiological safety group acc. to EN62471	Beam angle
FL PFM 20 W 3000 K SYM 100 S WT	RG1	100 ° x 100 °
FL PFM 20 W 3000 K SYM 100 S BK	RG1	100 ° x 100 °
FL PFM 20 W 4000 K SYM 100 S WT	RG1	100 ° x 100 °
FL PFM 20 W 4000 K SYM 100 S BK	RG1	100 ° x 100 °

Dimensions & Weight

Product description	Length	Width	Height	Product weight	Cable length
FL PFM 20 W 3000 K SYM 100 S WT	176.00 mm	156.00 mm	55.00 mm	570.00 g	1000 mm
FL PFM 20 W 3000 K SYM 100 S BK	176.00 mm	156.00 mm	55.00 mm	570.00 g	1000 mm
FL PFM 20 W 4000 K SYM 100 S WT	176.00 mm	156.00 mm	55.00 mm	570.00 g	1000 mm
FL PFM 20 W 4000 K SYM 100 S BK	176.00 mm	156.00 mm	55.00 mm	570.00 g	1000 mm

Product description
FL PFM 20 W 3000 K SYM 100 S WT
FL PFM 20 W 3000 K SYM 100 S BK



Product description
FL PFM 20 W 4000 K SYM 100 S WT
FL PFM 20 W 4000 K SYM 100 S BK

Materials & Colors

Product description	Product color	Housing color	Body material	Light emitting surface material	Glow Wire Test according to IEC 60695-2-12
FL PFM 20 W 3000 K SYM 100 S WT	White	White	Aluminum	Glass	650 °C
FL PFM 20 W 3000 K SYM 100 S BK	Black	Black	Aluminum	Glass	650 °C
FL PFM 20 W 4000 K SYM 100 S WT	White	White	Aluminum	Glass	650 °C
FL PFM 20 W 4000 K SYM 100 S BK	Black	Black	Aluminum	Glass	650 °C

Product description	Mercury content
FL PFM 20 W 3000 K SYM 100 S WT	0.0 mg
FL PFM 20 W 3000 K SYM 100 S BK	0.0 mg
FL PFM 20 W 4000 K SYM 100 S WT	0.0 mg
FL PFM 20 W 4000 K SYM 100 S BK	0.0 mg

Application & Mounting

Product description	Ambient temperature range	Temperature range at storage	Type of connection	Type of protection	Protection class IK (shock resistance)
FL PFM 20 W 3000 K SYM 100 S WT	-30...+50 °C	-40...+70 °C	Cable, 3-pole	IP65	IK07
FL PFM 20 W 3000 K SYM 100 S BK	-30...+50 °C	-40...+70 °C	Cable, 3-pole	IP65	IK07
FL PFM 20 W 4000 K SYM 100 S WT	-30...+50 °C	-40...+70 °C	Cable, 3-pole	IP65	IK07
FL PFM 20 W 4000 K SYM 100 S BK	-30...+50 °C	-40...+70 °C	Cable, 3-pole	IP65	IK07

Product description	Dimmable	Mounting type	Mounting location	Adjustable	LED module replaceable
FL PFM 20 W 3000 K SYM 100 S WT	No	Surface	Wall / Ceiling	Yes	Not replaceable



Product description	Dimmable	Mounting type	Mounting location	Adjustable	LED module replaceable
FL PFM 20 W 3000 K SYM 100 S BK	No	Surface	Wall / Ceiling	Yes	Not replaceable
FL PFM 20 W 4000 K SYM 100 S WT	No	Surface	Wall / Ceiling	Yes	Not replaceable
FL PFM 20 W 4000 K SYM 100 S BK	No	Surface	Wall / Ceiling	Yes	Not replaceable

Lifespan

Product description	Lifespan L70/B50 at 25 °C	Lifespan L80/B10 at 25 °C	Lifespan L90/B10 at 25 °C	Number of switching cycles
FL PFM 20 W 3000 K SYM 100 S WT	70000 h	55000 h	35000 h	100000
FL PFM 20 W 3000 K SYM 100 S BK	70000 h	55000 h	35000 h	100000
FL PFM 20 W 4000 K SYM 100 S WT	70000 h	55000 h	35000 h	100000
FL PFM 20 W 4000 K SYM 100 S BK	70000 h	55000 h	35000 h	100000

Control gear

Product description	ECG - Output ripple current
FL PFM 20 W 3000 K SYM 100 S WT	< 50 %
FL PFM 20 W 3000 K SYM 100 S BK	< 50 %
FL PFM 20 W 4000 K SYM 100 S WT	< 50 %
FL PFM 20 W 4000 K SYM 100 S BK	< 50 %

Sensor

Product description	Type of sensor	Sensor technology	Sensor detection angle	Sensor controlled switching time	Detection range of motion sensor
FL PFM 20 W 3000 K SYM 100 S WT	Motion / Light	Passive infrared/Photocell	40 °...160 °	10 s...12 min	2...12 m
FL PFM 20 W 3000 K SYM 100 S BK	Motion / Light	Passive infrared/Photocell	40 °...160 °	10 s...12 min	2...12 m
FL PFM 20 W 4000 K SYM 100 S WT	Motion / Light	Passive infrared/Photocell	40 °...160 °	10 s...12 min	2...12 m
FL PFM 20 W 4000 K SYM 100 S BK	Motion / Light	Passive infrared/Photocell	40 °...160 °	10 s...12 min	2...12 m



Product description	Detection threshold of daylight sensor	Sensor IP rating
FL PFM 20 W 3000 K SYM 100 S WT	10...2000 lx	IP65
FL PFM 20 W 3000 K SYM 100 S BK	10...2000 lx	IP65
FL PFM 20 W 4000 K SYM 100 S WT	10...2000 lx	IP65
FL PFM 20 W 4000 K SYM 100 S BK	10...2000 lx	IP65

Certificates & Standards

Product description	Standards	Luminaire with limited surface temperature, "D sign"	Ball shot safe
FL PFM 20 W 3000 K SYM 100 S WT	CE / CB / ENEC / EAC / RoHS	No	No
FL PFM 20 W 3000 K SYM 100 S BK	CE / CB / ENEC / EAC / RoHS	No	No
FL PFM 20 W 4000 K SYM 100 S WT	CE / CB / ENEC / EAC / RoHS	No	No
FL PFM 20 W 4000 K SYM 100 S BK	CE / CB / ENEC / EAC / RoHS	No	No

APPLICATION ADVICE

For more detailed application information and graphics please see product datasheet.

SALES AND TECHNICAL SUPPORT

Sales and Technical Support www.ledvance.com

COUNTRY SPECIFIC INFORMATION

Product description	Product code	METEL-Code	SEG number	STK number	UK Org
FL PFM 20 W 3000 K SYM 100 S WT	4058075460935	-	7766627	4508160	-
FL PFM 20 W 3000 K SYM 100 S BK	4058075460911	-	7766626	4508159	-
FL PFM 20 W 4000 K SYM 100 S WT	4058075460973	-	7766629	4508162	-
FL PFM 20 W 4000 K SYM 100 S BK	4058075460959	-	7766628	4508161	-


DOWNLOAD DATA





DOWNLOAD DATA	
	User instruction FLOODLIGHT SENSOR
	Tender documents Tender Text 4058075460935
	Declarations of conformity FL PFM SENSOR
	IES file (IES) FL PFM 20W3000K SYM 100 S WT
	LDT file (Eulumdat) FL PFM 20W3000K SYM 100 S WT
	UGR file (UGR table) FL PFM 20W3000K SYM 100 S WT
	Packaging insert Legal insert
	User instruction FLOODLIGHT SENSOR
	Tender documents Tender Text 4058075460911
	Declarations of conformity FL PFM SENSOR
	IES file (IES) FL PFM 20W3000K SYM 100 S BK
	LDT file (Eulumdat) FL PFM 20W3000K SYM 100 S BK
	UGR file (UGR table) FL PFM 20W3000K SYM 100 S BK
	Packaging insert Legal insert
	User instruction FLOODLIGHT SENSOR
	Tender documents Tender Text 4058075460973
	Declarations of conformity FL PFM SENSOR
	IES file (IES) FL PFM 20W4000K SYM 100 S WT





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 LDT file (Eulumdat)
FL PFM 20W4000K SYM 100 S WT


 Packaging insert
Legal insert


 User instruction
FLOODLIGHT SENSOR

 Tender documents
Tender Text 4058075460959

 Declarations of conformity
FL PFM SENSOR

 IES file (IES)
FL PFM 20W4000K SYM 100 S BK

 LDT file (Eulumdat)
FL PFM 20W4000K SYM 100 S BK







 Packaging insert
Legal insert

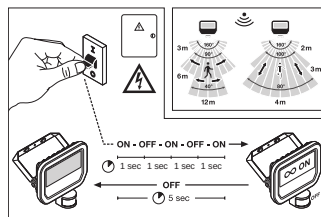
LOGISTICAL DATA



Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4058075460935	Folding box 1	65 mm x 162 mm x 184 mm	652.00 g	1.94 dm ³
4058075460911	Folding box 1	65 mm x 162 mm x 184 mm	652.00 g	1.94 dm ³
4058075460973	Folding box 1	65 mm x 162 mm x 184 mm	652.00 g	1.94 dm ³
4058075460959	Folding box 1	65 mm x 162 mm x 184 mm	652.00 g	1.94 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.

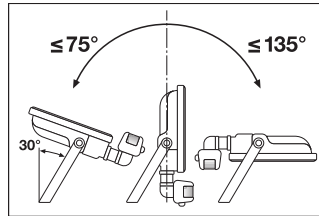
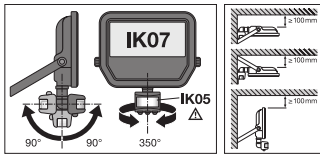
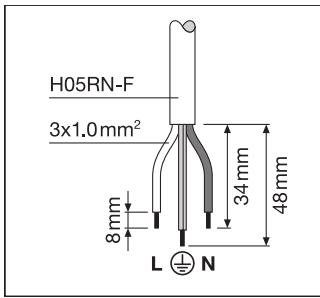
ADDITIONAL CATALOG INFORMATION

	SENS 	LUX 	TIME 
	~2m	< 10 lx	~10 sec ±3sec
	~6m	< 100 lx	~5 min ±2 min
	~12m	< 2000 lx	~12 min ±3 min



	A	B	C		
10W	58	38	5.5	2x MS	0.012m ²
20W	78	58	6.5	2x MS	0.018m ²
50W	108	78	8.5	2x MS	0.032m ²





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.

