PRODUCT DATASHEET
HB FLEX SN P 240W 110 ML 840 WT

HIGH BAY FLEX SENSOR | High-bay luminaires with PIR and daylight sensor



Areas of application

- Replacement for high bay luminaires with mercury vapor or metal halide lamps
- Warehouses, logistic halls
- Industry
- Sports facilities
- High ceiling (e.g. in shopping malls, airports, commercial buildings, lobbies)

Product benefits

- Flat housing design to minimize dust accumulation and easy cleaning
- Optimized weight and size due to compact design
- Multiple adjustments of sensor range, daylight detection and hold time
- Suitable for use in dusty and damp locations thanks to high IP rating
- Energy savings of up to 70 % compared to conventional high bay luminaires

Product features

- Sensor for daylight and motion detection for mounting heights of ~ 4 m to ~12 m
- Multi Lumen: lumen steps selectable
- Different luminous flux and beam angle for mounting heights
- High luminous efficacy: up to 195 lm/W
- Lifetime (L80/B10): up to 100,000 h (at 35 °C)
- Type of protection: up to IP65
- Impact resistance: IK04

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TECHNICAL DATA

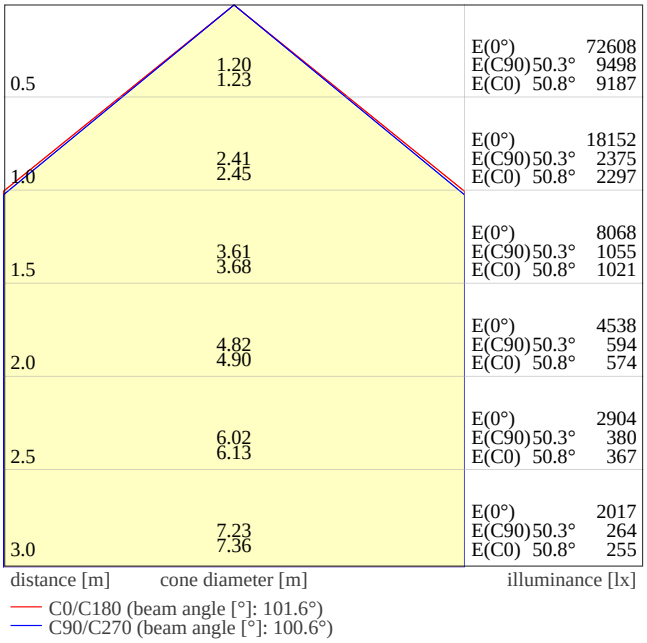
Electrical data

Nominal wattage	240 W / 180 W / 120 W
Nominal voltage	220…240 V
Mains frequency	0/50/60 Hz
Nominal current	1100/820/540 mA
Inrush current	43.6 A
Inrush current time T_{h50}	156 µs
Max. number of luminaires per miniature circuit breaker B16	10
Max. number of luminaires per miniature circuit breaker C10	8
Max. number of luminaires per miniature circuit breaker C16	12
Power factor λ	> 0.95
Maximum total harmonic distortion	< 15 %
Protection class	I
Surge capability (L-N)	6 kV
Surge capability (L/N-Ground)	6 kV
Operating mode	Integrated LED driver
Dimming interface	0-10V

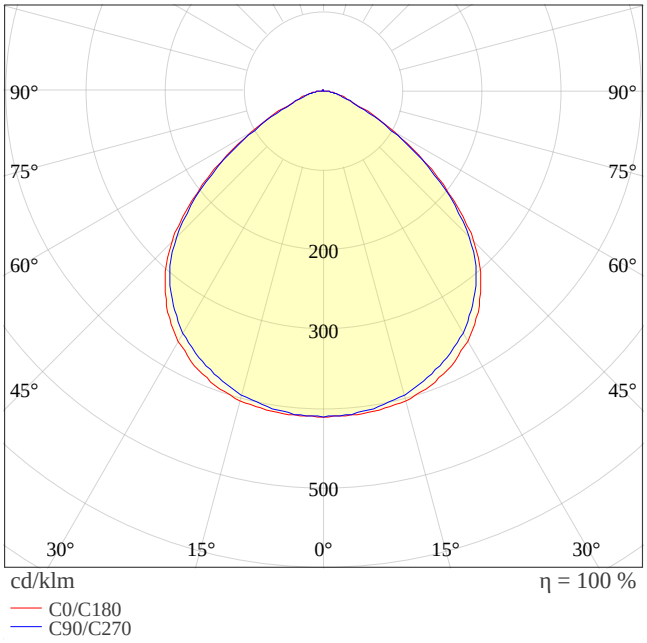
Photometrical data

Luminous flux	44160 lm / 34200 lm / 23400 lm
Luminous efficacy	184 lm/W / 190 lm/W / 195 lm/W
Color temperature	4000 K
Light color (designation)	Cool White
Color rendering index Ra	≥80
Standard deviation of color matching	≤3 sdcm
Low flicker	Yes
Flickering metric (Pst LM)	<1
Stroboscope effect metric (SVM)	<0,4
Photobiological safety group acc. to EN62778	RG1
Beam angle	110 °
UGR	< 30

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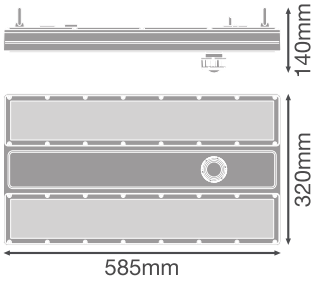
Adjustable attributes

Nominal wattage	Color temperature	Luminous flux	Luminous efficacy
240 W	4000 K	44160 lm	184 lm/W
180 W	4000 K	34200 lm	190 lm/W
120 W	4000 K	23400 lm	195 lm/W

Dimensions & Weight

Length	585.00 mm
Width	320.00 mm
Height	106.00 mm
Product weight	5900.00 g
Cable length	1500 mm

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HB FLEX SN

Materials & Colors

Product color	White
Housing color	White
RAL Color (most similar)	RAL 9003
Body material	Aluminum
Cover material	Polycarbonate (PC)
Light emitting surface material	Polycarbonate (PC)
Glow Wire Test according to IEC 60695-2-12	850 °C
Mercury content	0.0 mg

Application & Mounting

Ambient temperature range	-30…+50 °C
Temperature range at storage	-40…+80 °C
Type of connection	Cable, 3-pole
Type of protection	IP65
Protection class IK (shock resistance)	IK04
Dimmable	Yes
Mounting type	Suspended/Surface
Mounting location	Ceiling / Wall / Floor
Application environment	Indoor
Mounting height	4 - 12 m
Mechanically adjustable	Yes
With light source	Yes
Replaceable light source	No

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Lifespan

Lifespan L70/B50 at 25 °C	130000 h [1)]
Lifespan L80/B10 at 25 °C	110000 h [1)]
Lifespan L80/B50 at 25 °C	110000 h
Lifespan L90/B10 at 25 °C	67000 h [1)]
Number of switching cycles	200000

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	1000 mA
Output ripple current (100 Hz)	< 5 %

Sensor

Type of sensor	Motion / Light
Sensor technology	Passive infrared (PIR)
Sensor detection angle	360 °
Sensor controlled switching time	10 s… 60 min
Detection range of motion sensor	4…12 m
Detection threshold of daylight sensor	10…500 lx
Sensor IK rating	IK04
Type of connection for sensor/communication module	Single Zhaga socket (on top)

Emergency lighting

Type of Emergency Lighting (EL)	EL certified driver (0Hz / DC operation) for central battery operation included
Type of emergency operation test	None

Certificates & Standards

Standards	CE / UKCA / EAC / CB / ENEC / Dmark / EPD
Luminaire with limited surface temperature, "D sign"	Yes
Ball shot safe	Yes
EPD	LEDV-00084-V01.01-EN
Replaceable light source (EPREL)	Not replaceable

Additional product data

Added function	MULTI LUMEN

Accessories Optional

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Product image	Product name	EAN
	HB FLEX BRACKET SURFACE	4099854612800
	HB FLEX BRACKET CHAIN	4099854612787
	HB FLEX SN REMOTE CONTROL	4099854803642

EQUIPMENT / ACCESSORIES

- Sensor and mounting hook included
- Mounting brackets for surface mounting and remote control available as separate accessory

Safety advice

- All electrical connections must be made by a qualified person.
- Terminal block not included. Installation must be made by a qualified person.
- Caution, risk of electric shock.
- Product in protection class I. All electrically conductive, metallic housing parts that can absorb voltage during operation or during maintenance in the event of a fault must be continuously connected to the protective earthing conductor.
- To reduce the risk of strangulation the flexible wiring connected to this luminaire shall be effectively fixed to the wall if the wiring is within arm's reach.

DOWNLOAD DATA

	Documents and certificates	Document name
PDF	User instruction / safety instructions	G11282191 HIGHBAY FLEX SENSOR
PDF	Legal information	Safety Insert G11205496
PDF	Legal information	Legal Insert G11198263
PDF	Legal information	Informationstext 18 Abs 4 ElektroG
PDF	Legal information	G11265734 LSI HIGHBAY FLEX SENSOR
PDF	Declarations of conformity	HIGHBAY FLEX SENSOR
PDF	Declarations of conformity UKCA	HIGHBAY FLEX SENSOR

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	Documents and certificates	Document name
PDF	Certificates	ENEC Certificate HIGHBAY FLEX SENSOR
PDF	EPD	EPD EN HIGH BAY FLEX SENSOR

	Photometric and lighting design files	Document name
IES	IES file (IES)	HB FLEX SN P 240W 110 ML 840 WT
LDT	LDT file (Eulumdat)	HB FLEX SN P 240W 110 ML 840 WT
	UGR file (UGR table)	HB FLEX SN P 240W 110 ML 840 WT
	Light distribution curve type cone	HB FLEX SN P 240W 110 ML 840 WT
	Light distribution curve type polar	HB FLEX SN P 240W 110 ML 840 WT

	CAD/BIM files	Document name
RFA	BIM Revit 3D	Highbay Flex
STEP	CAD STEP 3D	HB FLEX SEN

	Tender texts	Document name
TXT	Tender documents	HIGH BAY FLEX SENSOR 240W 110 ML 840 WT-en

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4099854803628	Shipping box 1	647 mm x 402 mm x 140 mm	6354.00 g	36.41 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.

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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