

PRODUCT DATASHEET

HB SEN P 87W 840 110DEG IP65

HIGH BAY SENSOR GEN 4 | High-bay luminaires in IP65 with high frequency sensor



PERFOR-
MANCE
CLASS

Areas of application

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

Product benefits

- Multiple adjustments of sensor range, daylight detection and hold time
- High luminous efficacy
- Energy savings of up to 64 % compared to conventional high bay luminaires
- 5 years guarantee
- Suitable for use in dusty and damp locations thanks to high IP rating

Product features

- High frequency sensor for daylight and motion detection
- Different luminous flux and beam angle for mounting heights of ~ 6 m to 10 m in 4000 K



TECHNICAL DATA

Electrical data

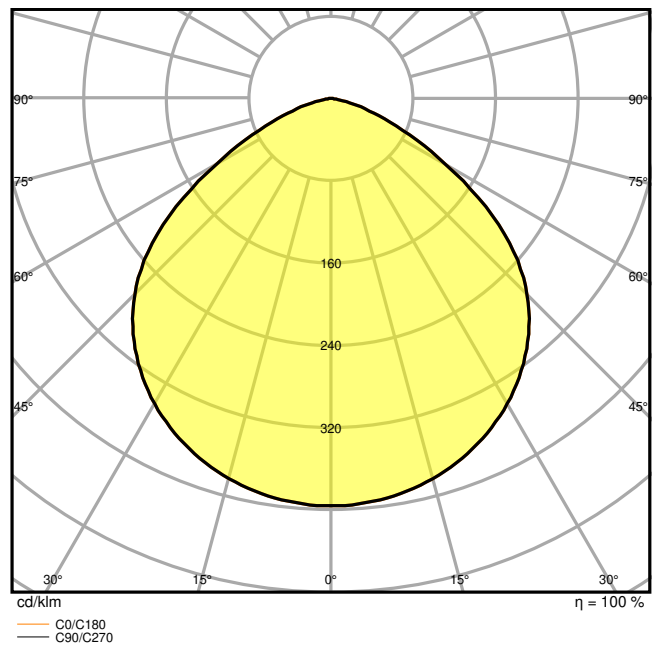
Nominal wattage	87.00 W
Nominal voltage	220...240 V
Mains frequency	50...60 Hz
Nominal current	400 mA
Inrush current	44 A
Inrush current time T_{h50}	380 μ s
Max. number of luminaires per miniature circuit breaker B16	5
Max. number of luminaires per miniature circuit breaker C10	5
Max. number of luminaires per miniature circuit breaker C16	8
Power factor λ	> 0.95
Total harmonic distortion	< 20 %
Protection class	I
Operating mode	Mains voltage

Photometrical data

Luminous flux	13000 lm
Luminous efficacy	150 lm/W
Color temperature	4000 K
Light color (designation)	Cool White
Color rendering index Ra	≥ 80
Standard deviation of color matching	< 5 sdc _m
Low flicker	Yes
Beam angle	110 °
UGR	≤ 29

0.5	1.36	E(0°) E(C0)	53.6°	20598 2153
1.0	2.71	E(0°) E(C0)	53.6°	5149 538
1.5	4.07	E(0°) E(C0)	53.6°	2289 239
2.0	5.43	E(0°) E(C0)	53.6°	1287 135
2.5	6.78	E(0°) E(C0)	53.6°	824 86
3.0	8.14	E(0°) E(C0)	53.6°	572 60
Distance [m]	Cone diameter [m]			Illuminance [lx]
— C0/C180 (Half beam angle [°]: 107.2°)				

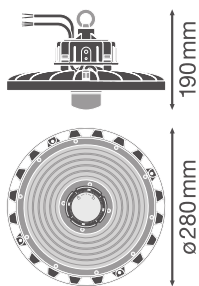
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Dimensions & Weight

Diameter	280.00 mm
Height	190.00 mm
Product weight	2242.00 g
Cable length	1500 mm



HB Sensor_Line drawing with dimensions_Update

Materials & Colors

Product color	Black
Housing color	Black
Body material	Aluminum
Cover material	Polycarbonate (PC)
Glow Wire Test according to IEC 60695-2-12	850 °C
Mercury content	0.0 mg

Application & Mounting

Ambient temperature range	-20...+50 °C
Temperature range at storage	-40...+70 °C
Type of connection	Cables
Type of protection	IP65
Protection class IK (shock resistance)	IK08
Dimmable	No
Mounting type	Surface/Suspended
Mounting location	Ceiling / Wall
Application environment	Indoor
With light source	Yes

Lifespan

Lifespan L70/B50 at 25 °C	80000 h ¹⁾
Lifespan L80/B10 at 25 °C	50000 h ¹⁾
Lifespan L80/B50 at 25 °C	50000 h
Lifespan L90/B10 at 25 °C	35000 h
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

ECG - Output ripple current	< 10 %
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Sensor

Type of sensor	Motion / Light
Sensor technology	Microwave
Sensor detection angle	< 150 °
Sensor controlled switching time	30s...10 min
Detection range of motion sensor	6...15 m

Detection threshold of daylight sensor	100 lx
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Certificates & Standards




Standards	CE / CB / ENEC / TÜV SÜD / EAC / EPD
Luminaire with limited surface temperature, "D sign"	Yes
Ball shot safe	No
EPD	LEDV-00024-V01.01-EN
Replaceable light source (EPREL)	Not replaceable








EQUIPMENT / ACCESSORIES

- Sensor, mounting hook and mounting bracket included
- Reflectors, refractors and remote control available as separate accessory

DOWNLOAD DATA

Documents and certificates		Document name
	User instruction / safety instructions	HIGHBAY SENSOR
	Legal information	LS Insert HB Sensor P
	Legal information	Legal insert HB SEN P
	Legal information	Informationstext 18 Abs 4 ElektroG
	Declarations of conformity	EC Declaration HB SEN P
	Declarations of conformity UKCA	HB SEN P 840 IP65
	Certificates	ENEC Certificate HB P and HB Sensor P

Photometric and lighting design files		Document name
	IES file (IES)	HB SEN P 87W 840 110DEG IP65
	LDT file (Eulumdat)	HB SEN P 87W 840 110DEG IP65
	ULD file (DIALux)	HB SEN P 87W 840 110DEG IP65

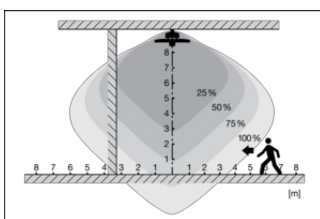
Photometric and lighting design files		Document name
	ROLF file (RELUX)	HB SEN P 87W 840 110DEG IP65
	UGR file (UGR table)	HB SEN P 87W 840 110DEG IP65
	Light distribution curve type cone	HB SEN P 87W 840 110DEG IP65
	Light distribution curve type polar	HB SEN P 87W 840 110DEG IP65
CAD/BIM files		Document name
	BIM Revit 3D	HB G4
	CAD STEP 3D	HB G4 SEN 87W
Tender texts		Document name
	Tender documents	HIGH BAY SENSOR GEN 4 87W 840 110DEG IP65-EN

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4058075603257	Shipping box 1	328 mm x 328 mm x 171 mm	2838.00 g	18.40 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



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.