



DUEVO

LED High Bay Fitting

Series 3301/3302... / 3301/3302... VARIO

Applications:

Production areas and warehouses, cool storage facilities, walkways in shelf areas, driveways etc.

Design:

Two versions are available: 1 (3301...) or 2 (3302...) LED-segments.

Housing: Die-cast aluminum, DB 702 (mica-iron paint, grey). **LED-segment(s)** with LED modules, optics and flat safety glass (IK10). **ECG segment** with integrated electronic control gear, prewired on terminals.

Light distribution: Without optics wide beam, with optics wide (B), narrow-wide (TB) or narrow beam (T), with oval optics (TO) for illumination of aisles in rack areas respectively asymmetrical beam (A).

Entries: 1 gland and 1 blind plug M25 x 1.5.

Mounting: 4 eyelets M6 included in delivery.

Technical Data:

LED module: 4,000 K, CRI > 80, service life $L_{80} > 100,000$ h at 25 °C ambient temperature, service life $L_{70} > 100,000$ h at max. ambient temperature, Zhaga compliant

ECG: 220-240 V, 50/60 Hz, Surge voltage resistance 4 kV, overload and short circuit protection.

Ambient temperature: -20°C up to +50 °C / +60 °C

Options:

- 5,000 K; light colour (850)
- green LEDs, for lighting potato stores
- cable looping at 1 small side
- FastConnect (FC), quick plug-in connection
- PMMA cover, satinised (C), for glare limitation
- for lower ambient temperatures (T40), down to -40 °C
- for higher ambient temperatures (H80), up to +80 °C
- increased resistance (ER), against corrosive atmospheres
- high resistance (HR), against corrosive atmospheres

- ball-proof, with special ceiling mountings for sports halls
- for connection to central emergency supply systems (ZB)
- dimming function via DALI2 interface, compatible with LIMAS Line wired Light Management System (DIMD)
- power reduction with control phase (LR)
- constant luminous flux function (CL)
- additional overvoltage protection
- for wall mounting with wall brackets

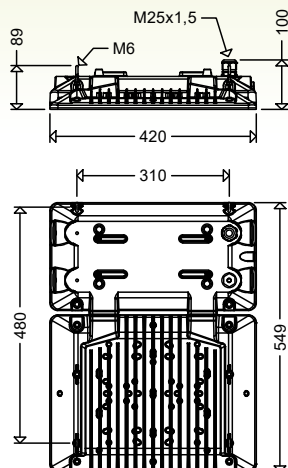
Product highlights of the VARIO version:

- universally usable due to variable setting of the luminous flux, depending on the requirement
- simple and quick adjustment on-site without tools
- can be changed at any time (e.g. change of use of the premises with new requirements in regard to the level of illumination)

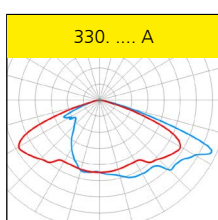
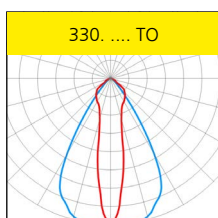
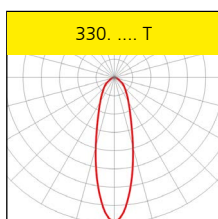
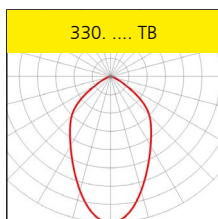
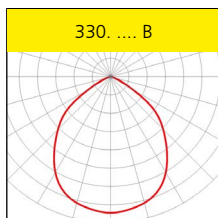
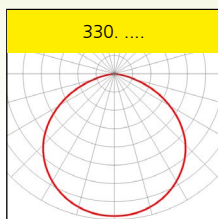
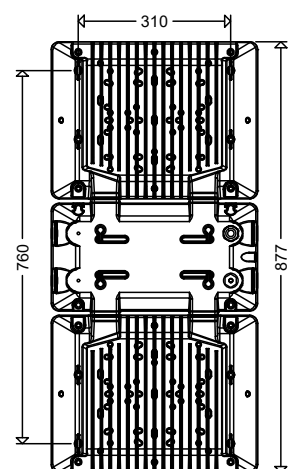
General product highlights:

- long-lasting, corrosion-resistant die-cast aluminium housing
- optimized thermal management due to direct mounting of the LED modules to the housing and separate housings for ECG- and LED-modules, huge heat sink with excellent heat dissipation
- uniform illumination due to the „Multi-Layer Technology“
- high system service life of up to 100,000 h, saves premature replacement and conserves valuable resources
- variable electrical installation methods due to max. 8 cable entries (see options)
- high energy cost savings thanks to low connected load and high efficiency
- sustainable, control gear and LED-module replaceable by qualified personnel on-site
- future proof by using standardized LED-modules (Zhaga) and long-term availability of spare parts
- GreenLine luminaire, outstanding sustainable design

3301...



3302...



Properties, limitations and details for controlling LED-light fittings:

See "Technical Supplement"

All data are correct at the time of printing. Actual technical data can be found under www.schuch.de.

Article no.	Type	Dimmable	Wide beam	Narrow wide beam	Narrow beam	Asymmetrical beam	Weight [kg] (without packing material)	Connected load [W]	Luminous flux [lm]	Light output [lm/W]	Substitute for *
								IP65			

3301...

... for ambient temperatures up to +50 °C

1 LED segment

33010 0001	3301 L210		•				8,9
33010 0002	3301 L210B		•				9,2
33010 0013	3301 L210TB			•			9,2
33010 0003	3301 L210T				•		9,2
33010 0014	3301 L210TO				•		9,2
33010 0200	3301 L210 DIMD	•	•				8,9
33010 0201	3301 L210B DIMD	•	•				9,2
33010 0212	3301 L210TB DIMD	•		•			9,2
33010 0202	3301 L210T DIMD	•			•		9,2
33010 0213	3301 L210TO DIMD	•			•		9,2

135 20.200 150 HIE 400

... for ambient temperatures up to +60 °C

33010 0004	3301 L110 H60		•				8,9
33010 0006	3301 L110B H60		•				9,2
33010 0015	3301 L110TB H60			•			9,2
33010 0008	3301 L110T H60				•		9,2
33010 0203	3301 L110 DIMD H60	•	•				8,9
33010 0205	3301 L110B DIMD H60	•	•				9,2
33010 0214	3301 L110TB DIMD H60	•		•			9,2
33010 0207	3301 L110T DIMD H60	•			•		9,2

67 10.800 161 HME 250

33010 0005	3301 L160 H60		•				8,9
33010 0007	3301 L160B H60		•				9,2
33010 0016	3301 L160TB H60			•			9,2
33010 0009	3301 L160T H60				•		9,2
33010 0204	3301 L160 DIMD H60	•	•				8,9
33010 0206	3301 L160B DIMD H60	•	•				9,2
33010 0215	3301 L160TB DIMD H60	•		•			9,2
33010 0208	3301 L160T DIMD H60	•			•		9,2

96 15.000 156 HIT 250, HME 400

3302...

... for ambient temperatures up to +50 °C

2 LED segments

33020 0001	3302 L420		•				14,5
33020 0002	3302 L420B		•				14,6
33020 0013	3302 L420TB			•			14,6
33020 0003	3302 L420T				•		14,6
33020 0014	3302 L420TO				•		14,6
33020 0200	3302 L420 DIMD	•	•				14,5
33020 0201	3302 L420B DIMD	•	•				14,6
33020 0212	3302 L420TB DIMD	•		•			14,6
33020 0202	3302 L420T DIMD	•			•		14,6
33020 0213	3302 L420TO DIMD	•			•		14,6

270 40.400 150 2 x HIE 400

... for ambient temperatures up to +60 °C

33020 0004	3302 L220 H60		•				14,5
33020 0006	3302 L220B H60		•				14,6
33020 0015	3302 L220TB H60			•			14,6
33020 0008	3302 L220T H60				•		14,6
33020 0203	3302 L220 DIMD H60	•	•				14,5
33020 0205	3302 L220B DIMD H60	•	•				14,6
33020 0214	3302 L220TB DIMD H60	•		•			14,6
33020 0207	3302 L220T DIMD H60	•			•		14,6

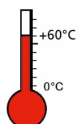
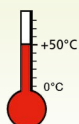
134 21.600 161 HIE 400

33020 0005	3302 L320 H60		•				14,5
33020 0007	3302 L320B H60		•				14,6
33020 0016	3302 L320TB H60			•			14,6
33020 0009	3302 L320T H60				•		14,6
33020 0204	3302 L320 DIMD H60	•	•				14,5
33020 0206	3302 L320B DIMD H60	•	•				14,6
33020 0215	3302 L320TB DIMD H60	•		•			14,6
33020 0208	3302 L320T DIMD H60	•			•		14,6

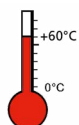
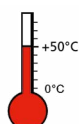
192 30.000 156 HIT 400

* This date is a rough guideline. In individual cases a lighting calculation is required.

3301...



3302...



Article No.	Type	Connected load [W]	Luminous flux [lm] ¹⁾	Luminous efficacy [lm/W] (up to)	Substitute for ca. *	Weight [kg] (without packing material)
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3301... / 3302... VARIO



Design:

Same as type 3301... / 3302... but: With a switch for for variable adjustment of the luminous flux in the luminaire. The connected load will change depending on the setting of the luminous flux.

1 LED segment

33011 0001	3301 L210 VARIO	77 - 135	12.040 - 20.200	156	HME 250 - HIE 400	9,2
33011 0002	3301 L210B VARIO					
33011 0003	3301 L210TB VARIO					
33011 0004	3301 L210T VARIO					

2 LED segments

33021 0001	3302 L420 VARIO	154 - 270	24.100 - 40.400	156	HIE 400 - 2 x HIE 400	14,6
33021 0002	3302 L420B VARIO					
33021 0003	3302 L420TB VARIO					
33021 0004	3302 L420T VARIO					

Factory setting L210: 77 W; replaces approx. ca. HME 250
Factory setting L420: 154 W; replaces approx. HIE 400

1) possible setting range

* The given information is for rough orientation only. In each individual case a lighting calculation is necessary.

Article no.	Type	Dimmable	Wide beam	Narrow wide beam	Narrow beam	Asymmetrical beam	Weight [kg] (without packing material)	Connected load [W]	Luminous flux [lm]	Light output [lm/W]	Substitute for *
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3301/3302... IFS



IFS Food/BRC/VDMA/HACCP

SCHUCH Light Fittings designed for food and beverage industry applications are in accordance with IFS Food/BRC/VDMA standards. They can be operated without restrictions in operations that must fulfill the HACCP Concept.

for application in food industry areas

Applications:

Production halls in the food industry, locations which come under the requirements of the IFS Food (International Featured Standard, Food), BRC or HACCP, e.g. manufacture of food packaging.

Design:

With clear PC cover instead of the flat safety glass.

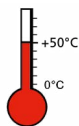
... for ambient temperatures up to +50 °C

1 LED segment

33010 0010	3301 L210 IFS	•				8,9	135	20.200	150	HIE 400
33010 0011	3301 L210B IFS	•				9,2				
33010 0017	3301 L210TB IFS		•			9,2				
33010 0012	3301 L210T IFS			•		9,2				
33010 0209	3301 L210 DIMD IFS	•	•			8,9				
33010 0210	3301 L210B DIMD IFS	•	•			9,2				
33010 0216	3301 L210TB DIMD IFS	•		•		9,2				
33010 0211	3301 L210T DIMD IFS	•			•	9,2				

2 LED segments

33020 0010	3302 L420 IFS	•				14,5	270	40.400	150	2 x HIE 400
33020 0011	3302 L420B IFS	•				14,6				
33020 0017	3302 L420TB IFS		•			14,6				
33020 0012	3302 L420T IFS			•		14,6				
33020 0209	3302 L420 DIMD IFS	•	•			14,5				
33020 0210	3302 L420B DIMD IFS	•	•			14,6				
33020 0216	3302 L420TB DIMD IFS	•		•		14,6				
33020 0211	3302 L420T DIMD IFS	•			•	14,6				



Optional also available for ambient temperatures up to +60 °C



Article no.	Type	Dimmable	Wide beam	Narrow wide beam	Narrow beam	Asymmetrical beam	Weight [kg] (without packing material)	Connected load [W]	Luminous flux [lm]	Light output [lm/W]	Substitute for *
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3301... ER



for use in cattle and horse stables

Applications:

High stables with greater mounting heights from approx. 6 m.

Design:

With stainless steel eye bolts.

Attention: Fastening ropes, ceiling brackets and wall brackets must be made of stainless steel (on demand).

33010 0600	3301 L210 ER		•			8,9	135	20.200	150	HIE 400
33010 0602	3301 L210B ER		•			9,2				
33010 0603	3301 L210TB ER			•		9,2				



3301... LW



for use in pig stalls

Applications:

High stables with greater mounting heights from approx. 6 m as well as environments with high pollution.

Design:

Modified for high protection against ammonia and other corrosive atmospheres or harmful gases.

Attention: Fastening ropes, ceiling brackets and wall brackets must be made of stainless steel (on demand).

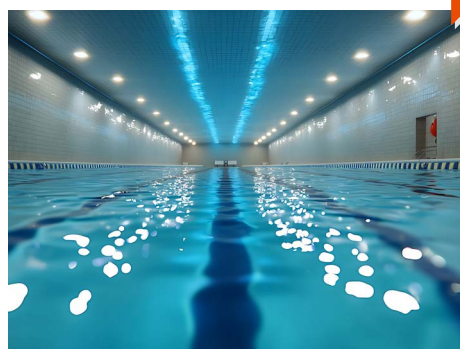
33010 0800	3301 L210 LW		•			8,9	135	20.200	150	HIE 400
33010 0801	3301 L210B LW		•			9,2				
33010 0802	3301 L210TB LW			•		9,2				

* This date is a rough guideline. In individual cases a lighting calculation is required.

Gas-tight encapsulated light sensor

Specially developed for use in environments contaminated with harmful gases, our new XR DS light sensor is ideal for animal houses contaminated with ammonia. Robustly constructed and gas-tight encapsulated, it offers outstanding durability and reliability in these demanding areas.

See catalog chapter *Light management systems/LIMAS Line*.



NEW

3301... SBL



for use in Swimming pools

Applications:

Swimming pools, indoor pools and chlorinated environments

Design:

Modified for high protection against chlorinated atmospheres.

Attention: Fixing cables, ceiling brackets and wall brackets must be specially designed (on request). Other versions 3302 ... also available on request.

33010 0900	3301 L210 SBL		•			8,9	135	20.200	150	HIE 400
33010 0901	3301 L210B SBL		•			9,2				
33010 0902	3301 L210TB SBL			•		9,2				
33010 0903	3301 L210A SBL				•	9,2				

LIMAS Air - Smart lighting control

Applications:

Areas where luminaires are to be intelligently controlled to lower operating costs and reduce CO₂ emissions.

Design:

CASAMBI® radio module with FastConnect quick-connector for easy plugging onto DIMD luminaires.



LIMAS Air FM

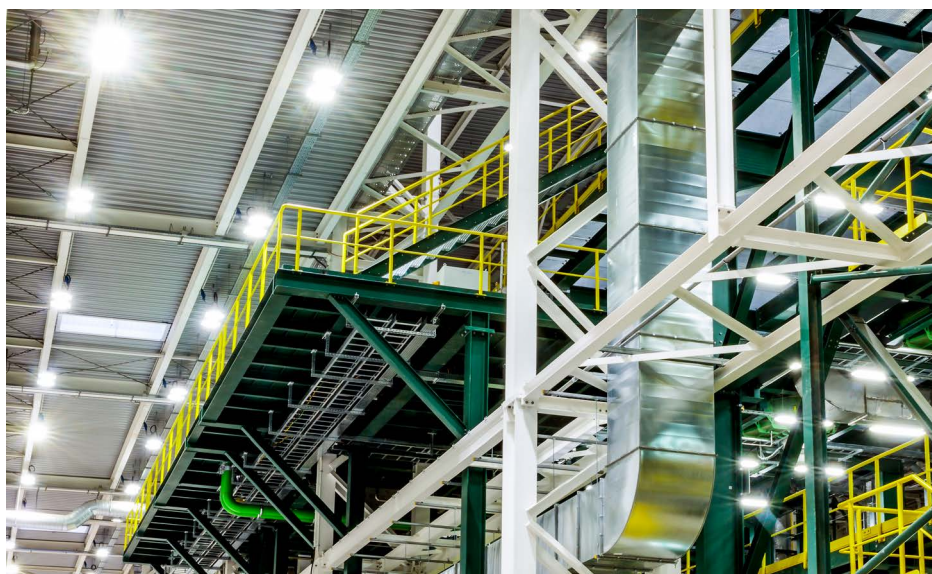


LIMAS Air FM MK



Article No.	Type	
90547 9001	LIMAS Air FM	CASAMBI® radio module with FastConnect quick-connector for controlling DIMD luminaires
90547 9002	LIMAS Air FM MK	CASAMBI® radio module with FastConnect quick-connector and 1 m cable

Explanations of the Light Management System LIMAS Air and the system components (sensors, switches, push-buttons, etc.) can be found at the beginning of the chapter „High Bay Fittings“.



Accessories / Spare Parts

Article no.	Type	
33001 9001	ABD 3301	cover, safety glass pane clear (1 segment), for 3301..., 3302..., 3305...
33001 9006	ABD 3301 IFS	cover, disc PC clear IFS (1 segment), for 3301..., 3302..., 3305...
33001 9010	ABD 3301 C	cover, PMMA frosted disc for glare limitation (1 segment), for 3301..., 3302..., 3305...
25600 9000	2560	plastic gland M25 x 1,5
25720 9000	2572	plastic plug M25 x 1,5
33001 9004	3301/3302 Y P	1 pair of Y-ropes, (2-point-mounting)
33001 9002	DBF 3301/3302	1 pair of brackets for direct ceiling mounting ¹⁾
33001 9013	3301/3302 SD	vibration absorbing suspension device ¹⁾
¹⁾ Version Sheet Steel painted. Optional available in stainless steel painted.		