

# 130 JAHRE S/SCHUCH

## NEW PRODUCTS LED Light Fittings

130  
JAHRE  
S/SCHUCH

Light Management  
Explosion-Proof Light Fittings  
Dust- and Waterproof Light Fittings  
High Bay Light Fittings  
Outdoor Light Fittings  
Emergency Light Fittings



# LIMAS Air GUARD

The reliable operation of emergency lighting systems is essential for commercial and industrial businesses. The easier the system is to install, monitor and control, the more efficient and comfortable it is for the operator.

## Radio-based Light Management System for self-contained emergency luminaires

With the introduction of the radio-based LIMAS Air GUARD lighting management system for monitoring, controlling and testing self-contained emergency luminaires, we offer efficiency and safety at the highest level.



### Functionality

The self-contained emergency luminaires are equipped with integrated radio modules that enable wireless networking. Based on CASAMBI® radio technology and the 2.4 GHz radio standard, the luminaires communicate reliably and energy-efficiently via a self-organising mesh network. The connection between the luminaires and the central monitoring unit of the LIMAS Air GUARD system is guaranteed at all times. The monitoring unit is configured and controlled via PC without additional software - a browser is all that is needed. The connection between the PC and the mo-

nitoring unit can be realised either via an existing network or by establishing a peer-to-peer connection. An Internet connection is not required. The lights themselves are conveniently set up using a free app for Android or iOS. Up to 192 luminaires can be monitored and controlled via the central monitoring unit. The operating status of each luminaire can be read and luminaire faults are displayed centrally. The required tests according to DIN EN 50172 can be managed and initiated via stored test lists. The central monitoring unit can also be integrated into any building management

system via open interfaces or utilised via software (lichtMONITOR).





## Advantages

- **Quick installation**, no additional wiring required
- **Cost-efficient**, no time-consuming inspections, no manual documentation
- **Maximum security**, early error detection, automatic error message with location display, audit-proof documentation
- **High data security**, no cloud connection required
- **Monitoring of up to 192 self-contained emergency luminaires**
- **Permanently stable wireless communication** thanks to self-organising mesh network
- **Readout of luminaire data** such as energy consumption etc.
- **Individually adjustable test times** for function and duration tests
- **Light management ready and scalable**, integration of sensors and DALI luminaires possible
- **Integration into building management systems** possible
- **No follow-up costs**, no ongoing fees or subscriptions

All CS luminaires from the SCHUCH portfolio can be controlled, MA-Z CS luminaires can be monitored and DIMD MA-Z CS luminaires can be both controlled and monitored.

## The most important differences to LIMAS Line PRO:

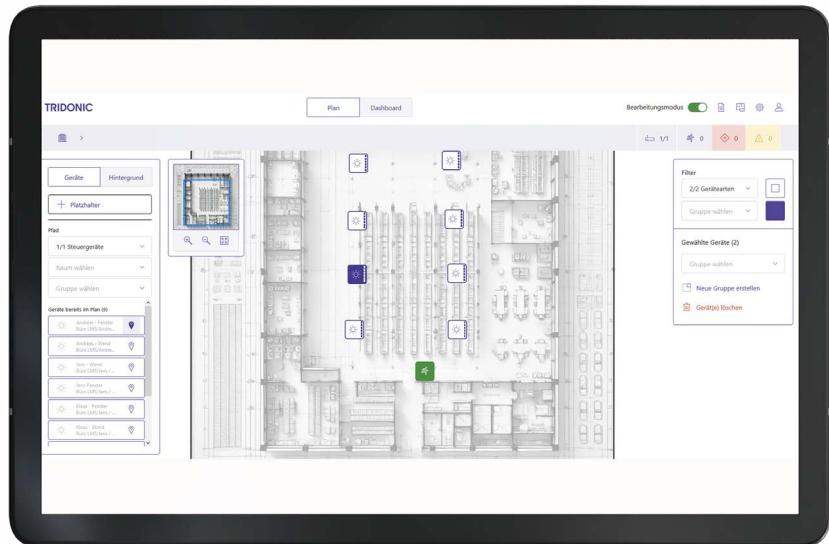
- Radio networked, no additional wiring required
- Quick installation
- Focus on luminaire monitoring

## Easy monitoring with lichtMONITOR

The additional lichtMONITOR software offers a user-friendly way of monitoring and controlling the emergency lighting system. The intuitive user interface and comprehensive functions make lichtMONITOR a valuable tool for managing emergency lighting systems.

### Advantages:

- Clear, detailed representation of the system in the floor plan
- All information on the status of the system at a glance
- Automatic reporting of errors, breakdowns and faulty tests, e.g. by e-mail to the facility manager





## PROXIMA

### Dustproof/Waterproof LED Light Fitting with Diffuser Serie 161PX... / 161PX... VARIO

#### Applications:

Humid, wet and dusty rooms in trade, commerce and industry, multi-storey car parks, underground car parks, cold stores, cold rooms and walk-in cold rooms, covered outdoor areas, etc. (Please enquire in the event of humid, cold ambient conditions with low duty cycles and the presence/ occurrence of chemical substances)

#### Design:

**Housing:** Glass fibre reinforced polyester resin, foamed silicone gasket.

**Diffuser:** Injection-molded acrylic glass, frosted for glare limitation.

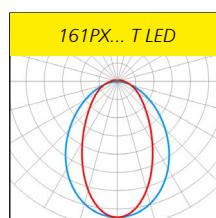
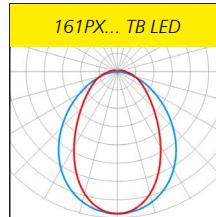
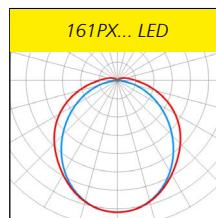
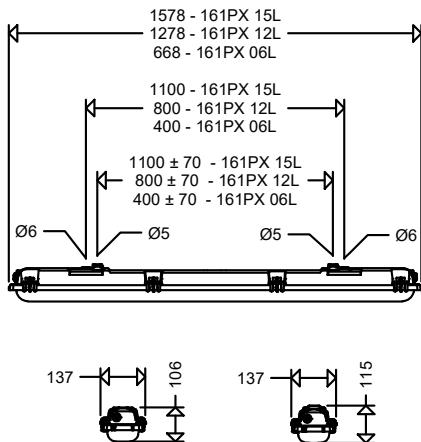
**Closure:** Three-part plastic safety clips (KKS) to ensure protection against accidental contact.

**Reflector:** Aluminium, painted, can be suspended or removed and carries the electrical components.

**Connection:** 3-pole

**Cable entries:** 3 plugs M20, loop in-out possible without further modification.

**Mounting:** 2 stainless steel retaining clips, 2 brackets for chain suspension, holes pre-pressed for direct fixing, sealing and pressure disks included in scope of delivery.



#### VARIO versions with variable setting of the luminous flux

#### Applications:

Factories in which, for reasons of maximum standardization and economic storage, only one type of damp-proof luminaire is to be used, which can be used for a wide variety of lighting tasks due to its variably adjustable luminous flux.

#### Design:

As standard version but with DIP switch for setting the luminous flux without tools. The luminaire luminous flux can be set to almost any value between 1,590 lm and 5,900 lm. Depending on the set luminous flux, the power consumption of the light fitting and the maximum permissible ambient temperature change.

#### Technical data:

**LED:** Linear modules 4,000 K, CRI > 80, service life  $L_{50} > 50,000$  h at 25 °C ambient temperature, service life  $L_{80} > 70,000$  h and  $L_{70} > 100,000$  h at max. ambient temperature

**ECG:** 220-240 V, 50/60 Hz, overload and short-circuit protection

**Ambient temperature:** -20 °C (-40 °C for types ...T40) up to ..°C see article table

#### Options:

- 2,200 K, 2,700 K, 3,000 K, 5,000 K, 6,500 K; light colours (822, 827, 830, 850, 865)
- 1,800 K; light colour (518), amber for insect-friendly lighting in outdoor areas etc.
- high colour rendering index Ra > 90
- green LEDs, for lighting potato stores
- coloured LEDs, for signal applications
- through-wiring (DV)
- FastConnect (FC), quick-connector
- cable entry M25 x 1,5 mm<sup>2</sup>
- rear cable entry
- cover made of polycarbonate (PC), frosted
- stainless steel clips (KE)
- protection class II (SKII)
- vibration-resistant design
- power reduction with control phase (LR)
- constant luminous flux function (CL)
- additional overvoltage protection

#### Standard cable entries for looping the mains cable on one side (loop in/loop out):

We deliver the light fittings with 2 cable entries on one small side. This feature allows an optimal adjustment to all local conditions and it will consequently save the typical quite expensive through wiring system. (Surcharge for 5-pole version).



#### 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)
- maximum standardisation and most economical warehousing

#### General product highlights of the 161PX... series:

- high-impact resistant housing, wall thickness 1.8 mm
- diffuser with very high mechanical stability, wall thickness 2.0 mm
- safety clips to ensure protection against contact
- FastFix quick mounting system with retaining clips made of stainless steel
- flexible mounting with movable retaining clips
- front-side in/out wiring (3-pole) possible as standard due to 2 entries on one side
- variable cable entry possible through additional entries on the top of the enclosure at the front or in the centre, centring holes available
- homogeneous illumination by using frosted diffusers
- highest flexibility due to almost unlimited modification possibilities
- 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

**Properties, limitations and details for controlling LED-light fittings:**  
See "Technical Supplement"

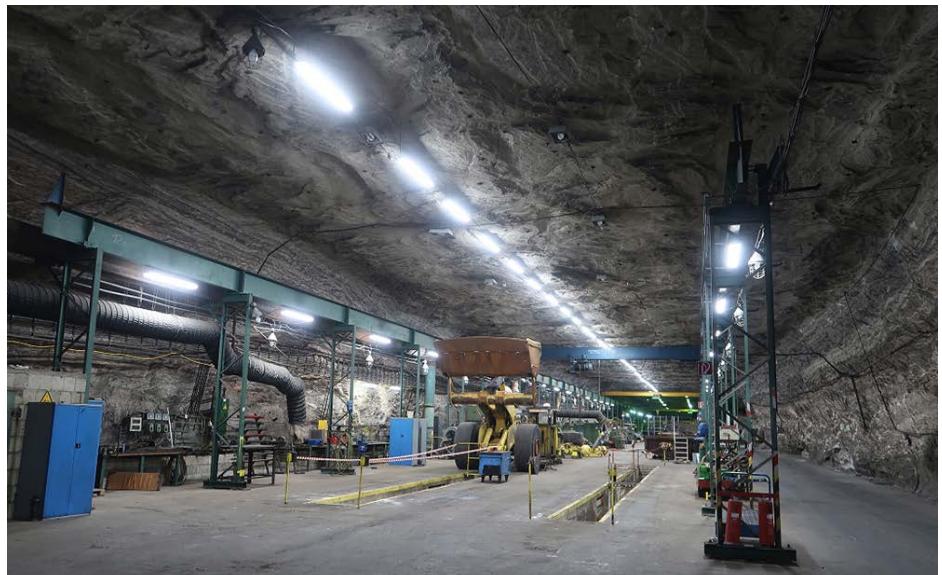
All data are correct at the time of printing. Actual technical data can be found under [www.schuch.de](http://www.schuch.de).

Article no.	Type	Quantity of ECG	Connected load [W]	Luminous flux [lm]	Luminous efficacy [lm/W]	Ambient temperature max.[°C]	Substitute for ca. *	Weight [kg] without packing material
<b>161PX... / 161PX... VARIO</b>								
16130 0001	<b>161PX 06L12</b>	1	10	1.340	134	40	1 x 18W	1,7
16130 0004	<b>161PX 06L20</b>	1	16	2.260	141	40	2 x 18W	1,7
16130 0002	<b>161PX 12L22</b>	1	15	2.380	159	40	1 x 36W	2,8
16130 0005	<b>161PX 12L42</b>	1	27	4.220	156	40	2 x 36W	2,8
16130 0007	<b>161PX 12L60</b>	1	39	5.900	151	40	2 x 58W	2,8
16130 0009	<b>161PX 12L120</b>	1	77	11.470	149	35	2 x 80 bzw. 3 x 58W	3,1
16130 0003	<b>161PX 15L34</b>	1	21	3.430	163	40	1 x 58W	3,4
16130 0006	<b>161PX 15L60</b>	1	39	6.130	157	40	2 x 58W	3,4
16130 0008	<b>161PX 15L75</b>	1	49	7.410	151	40	> 2 x 58W	3,4
16130 0010	<b>161PX 15L150</b>	1	93	14.250	153	35	4 x 58W	3,7
16130 0127	<b>161PX 15L200</b>	1	122	19.400	159	35	6 x 58W	4,2
16130 0090	<b>161PX 12L VARIO</b>		11	1.590	145	45	1 x 18W	2,8
			15	2.380	159	40	1 x 36W	
			22	3.400 <sup>2)</sup>	155	40	1 x 58W	
			27	4.220	156	40	2 x 36W	
			39	5.900	151	35	2 x 58W	

1) Examples of possible settings

2) Factory setting

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



## 161PX... DIMD



### dimmable via DALI interface

#### Design:

Same as standard version, but with DALI2-ECG and 2 additional clamping points. Dimming range 1-100 %. Compatible with LIMAS Line Light Management System.

16130 0011	<b>161PX 06L12 DIMD</b>	1	10	1.340	134	40	1 x 18W	1,7
16130 0014	<b>161PX 06L20 DIMD</b>	1	16	2.260	141	40	2 x 18W	1,7
16130 0012	<b>161PX 12L22 DIMD</b>	1	15	2.380	159	40	1 x 36W	2,8
16130 0015	<b>161PX 12L42 DIMD</b>	1	27	4.220	156	40	2 x 36W	2,8
16130 0017	<b>161PX 12L60 DIMD</b>	1	39	5.900	151	40	2 x 58W	2,8
16130 0019	<b>161PX 12L120 DIMD</b>	1	77	11.470	149	35	2 x 80 bzw. 3 x 58W	3,1
16130 0013	<b>161PX 15L34 DIMD</b>	1	21	3.430	163	40	1 x 58W	3,4
16130 0016	<b>161PX 15L60 DIMD</b>	1	39	6.130	157	40	2 x 58W	3,4
16130 0018	<b>161PX 15L75 DIMD</b>	1	49	7.410	151	40	> 2 x 58W	3,4
16130 0020	<b>161PX 15L150 DIMD</b>	1	93	14.250	153	35	4 x 58W	3,7
16130 0129	<b>161PX 15L200 DIMD</b>	1	122	19.400	159	35	6 x 58W	4,2

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



## 161PX... DIMC/SENS - General information

### Applications:

Areas in which the lighting is controlled via motion sensors or door contacts, e.g. storage areas, rack aisles, parking garages etc.

SENS luminaires: are controlled by L' and can generate L'

DIMC luminaires: are controlled by L'

### Design:

As standard version but with DIM ECG and additional terminal point, labeled L', optionally with HF sensor (SENS types), see table.

	Clamping point L'	wireless switching	Integrated sensor	Switches off after 30 minutes
161PX... DIMC	x	x	-	-
161PX... DIMC-Z30	x	x	-	x
161PX... SENS	x	x	x	-
161PX... SENS-Z30	x	x	x	x

### Product highlights:

- simple installation and commissioning
- no software or apps required for operation
- only one mains-insulated control cable is required
- "Stand-alone operation" of the SENS luminaires possible, no control phase is required for this
- large energy saving potential through
  - Power consumption reduced by up to 90 % in dimming mode
  - shorter operating time for Z30 versions
- no gateway required
- use of external sensors possible

### Technical data:

**Control:** Any number of DIMC or SENS luminaires can be controlled via the control phase of the SENS luminaires. Switching is powerless. If movement is no longer detected by a SENS luminaire or an external sensor detected (depending on the set hold time), the control phase switches to 0 V and all luminaires connected to the control phase dim to 10 % (factory setting). Please observe the installation instructions in the Technical Supplement.

**Programming:** the following parameters, among others, can be changed on the LED control gear via the NFC interface: Luminous flux, dimming ramp, switch-off time.

Programming can be done via smartphone and free app.

**Detection range of the HF sensor:** Depending on the light point height, the detection range is 1-5 m:

– Light point height approx. 2.5 m: Detection area approx. 3 m diameter

– Light point height approx. 0.5 - 5 m: Detection area max. 5 m diameter

Structures such as concrete pillars can restrict the detection area. Materials such as drywall can be penetrated.

### Factory settings:

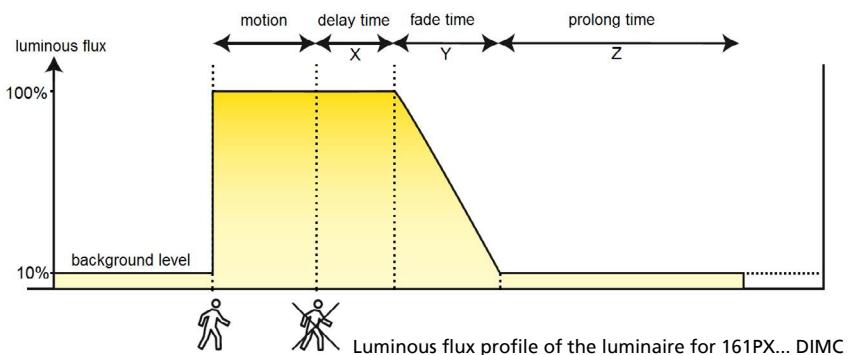
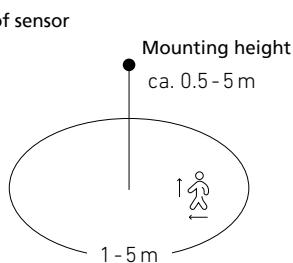
- Standard sensor hold time (X): 5 minutes can be set (see setting options), only for SENS types
- Dimming ramp (Y): 30 seconds, for DIMC and SENS types
- Reduced operation (L' = 0V): 10 % luminous flux if no activity is detected, for SENS and DIMC types
- Automatic switch-off deactivated (Z), luminaire never switches off.
- For further information, see illustration "Luminous flux profile of the luminaire" for 161PX... DIMC.

**Setting options for SENS luminaires:** Via potentiometer on the sensor or optionally via IR remote control (article number 90295 9000):

– Sensitivity of the sensor to avoid unwanted detections in the edge area

– Hold time of the sensor from 10 seconds to 30 minutes, with IR remote control up to 60 minutes

**Ambient temperature:** -20 °C to see table



Article no.	Type	Quantity of ECG	Connected load [W]	Luminous flux [lm]	Luminous efficacy [lm/W]	Ambient temperature max.[°C]	Substitute for ca. *	Weight [kg] without packing material
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## 161PX... DIMC



**Note:**

Since the switching capabilities of LED modules and control devices are limited, dimming without switching of the light fitting completely will result in a much longer life of the light fitting.

**Factory settings DIMC types:**

- Automatic switch-off deactivated, light never switches off.

16130 0022	<b>161PX 12L22 DIMC</b>	1	15	2.380	159	40	1 x 36W	2,8
16130 0025	<b>161PX 12L42 DIMC</b>	1	27	4.220	156	40	2 x 36W	2,8
16130 0027	<b>161PX 12L60 DIMC</b>	1	39	5.900	151	40	2 x 58W	2,8
16130 0029	<b>161PX 12L120 DIMC</b>	1	77	11.470	149	35	2 x 80 bzw. 3 x 58W	3,1
16130 0023	<b>161PX 15L34 DIMC</b>	1	21	3.430	163	40	1 x 58W	3,4
16130 0026	<b>161PX 15L60 DIMC</b>	1	39	6.130	157	40	2 x 58W	3,4
16130 0028	<b>161PX 15L75 DIMC</b>	1	49	7.410	151	40	> 2 x 58W	3,4
16130 0030	<b>161PX 15L150 DIMC</b>	1	93	14.250	153	35	4 x 58W	3,7
16130 0130	<b>161PX 15L200 DIMC</b>	1	122	19.400	159	35	6 x 58W	4,2

## 161PX... DIMC-Z30



**dimmable via Corridor Mode and automatic switch-off function (switches off after 30 minutes)**

**Factory settings different from DIMC types:**

- Automatic switch-off activated: 30 minutes 10 % background level, then standby mode (0 %).

16130 0032	<b>161PX 12L22 DIMC-Z30</b>	1	15	2.380	159	40	1 x 36W	2,8
16130 0035	<b>161PX 12L42 DIMC-Z30</b>	1	27	4.220	156	40	2 x 36W	2,8
16130 0037	<b>161PX 12L60 DIMC-Z30</b>	1	39	5.900	151	40	2 x 58W	2,8
16130 0039	<b>161PX 12L120 DIMC-Z30</b>	1	77	11.470	149	35	2 x 80 bzw. 3 x 58W	3,1
16130 0033	<b>161PX 15L34 DIMC-Z30</b>	1	21	3.430	163	40	1 x 58W	3,4
16130 0036	<b>161PX 15L60 DIMC-Z30</b>	1	39	6.130	157	40	2 x 58W	3,4
16130 0038	<b>161PX 15L75 DIMC-Z30</b>	1	49	7.410	151	40	> 2 x 58W	3,4
16130 0040	<b>161PX 15L150 DIMC-Z30</b>	1	93	14.250	153	35	4 x 58W	3,7
16130 0131	<b>161PX 15L200 DIMC-Z30</b>	1	122	19.400	159	35	6 x 58W	4,2

## 161PX... SENS



**DIMC version with integrated motion sensor**

**Design:**

As DIMC version, but with integrated motion sensor. As a master luminaire, the luminaire can control all DIMC luminaires connected to it.

**Factory settings SENS types:**

- Automatic switch-off deactivated, light never switches off.

16130 0042	<b>161PX 12L22 SENS</b>	1	15	2.380	159	40	1 x 36W	2,9
16130 0045	<b>161PX 12L42 SENS</b>	1	27	4.220	156	40	2 x 36W	2,9
16130 0047	<b>161PX 12L60 SENS</b>	1	39	5.900	151	40	2 x 58W	2,9
16130 0049	<b>161PX 12L120 SENS</b>	1	77	11.470	149	35	2 x 80 bzw. 3 x 58W	3,2
16130 0043	<b>161PX 15L34 SENS</b>	1	21	3.430	163	40	1 x 58W	3,4
16130 0046	<b>161PX 15L60 SENS</b>	1	39	6.130	157	40	2 x 58W	3,5
16130 0048	<b>161PX 15L75 SENS</b>	1	49	7.410	151	40	> 2 x 58W	3,5
16130 0050	<b>161PX 15L150 SENS</b>	1	93	14.250	153	35	4 x 58W	3,8
16130 0132	<b>161PX 15L200 SENS</b>	1	122	19.400	159	35	6 x 58W	4,2

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



Article no.	Type	Quantity of ECG	Connected load [W]	Luminous flux [lm]	Luminous efficacy [lm/W]	Ambient temperature max. [°C]	Substitute for ca. *	Weight [kg] without packing material
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## 161PX... SENS-Z30



DIMC-Z30 version with integrated motion sensor and switch-off after 30 minutes

**Design:**

As DIMC version, but with integrated motion sensor. As a master luminaire, the luminaire can control all DIMC-Z30 luminaires connected to it.

**Factory settings different from SENS types:**

- Automatic switch-off activated: 30 minutes 10 % background level, then standby mode (0 %)..

16130 0052	<b>161PX 12L22 SENS-Z30</b>	1	15	2.380	159	40	1 x 36W	2,9
16130 0055	<b>161PX 12L42 SENS-Z30</b>	1	27	4.220	156	40	2 x 36W	2,9
16130 0057	<b>161PX 12L60 SENS-Z30</b>	1	39	5.900	151	40	2 x 58W	2,9
16130 0059	<b>161PX 12L120 SENS-Z30</b>	1	77	11.470	149	35	2 x 80 bzw. 3 x 58W	3,2
16130 0053	<b>161PX 15L34 SENS-Z30</b>	1	21	3.430	163	40	1 x 58W	3,5
16130 0056	<b>161PX 15L60 SENS-Z30</b>	1	39	6.130	157	40	2 x 58W	3,5
16130 0058	<b>161PX 15L75 SENS-Z30</b>	1	49	7.410	151	40	> 2 x 58W	3,5
16130 0060	<b>161PX 15L150 SENS-Z30</b>	1	93	14.250	153	35	4 x 58W	3,8
16130 0133	<b>161PX 15L200 SENS-Z30</b>	1	122	19.400	159	35	6 x 58W	4,2



## 161PX... CS



with smart LIMAS Air light control via radio

**Applications:**

Areas where no DALI lines are available or planned, but the luminaires are to be controlled intelligently.

**Design:**

As standard version, but with CASAMBI®-enabled control gear for smart lighting control.

Explanations on smart light control as well as further system components (sensors / switches / pushbuttons etc.) can be found in the catalog section „Light Management - LIMAS Air“.

**Product highlights:**

- each individual luminaire separately controllable
- compatible with all LIMAS Air system components
- convenient configuration and control via radio using free smartphone app (Android and iOS)
- no gateway and no internet connection required
- extensive portfolio of sensors and actuators
- significant reduction of operating costs and CO<sub>2</sub> reduction

16130 0061	<b>161PX 12L42 CS</b>	1	27	4.220	156	40	2 x 36W	2,8
16130 0062	<b>161PX 15L60 CS</b>	1	39	6.130	157	40	2 x 58W	3,5

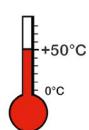
## 161PX... H50



for high ambient temperatures up to +50 °C

**Applications:**

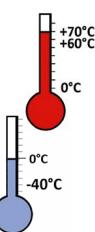
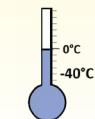
Power plants, steel plants, machine-oriented areas, areas with high process waste heat, areas close to the ceiling with accumulating heat etc.



16134 0001	<b>161PX 06L12 H50</b>	1	10	1.340	134	50	1 x 18W	1,7
16134 0004	<b>161PX 06L20 H50</b>	1	16	2.260	141	50	2 x 18W	1,7
16134 0002	<b>161PX 12L22 H50</b>	1	15	2.380	159	50	1 x 36W	2,8
16134 0005	<b>161PX 12L42 H50</b>	1	27	4.220	156	50	2 x 36W	2,8
16134 0003	<b>161PX 15L34 H50</b>	1	21	3.430	163	50	1 x 58W	3,4
16134 0006	<b>161PX 15L60 H50</b>	1	39	6.130	157	50	2 x 58W	3,4

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

Article no.	Type	Quantity of ECG	Connected load [W]	Luminous flux [lm]	Luminous efficacy [lm/W]	Ambient temperature max.[°C]	Substitute for ca. *	Weight [kg] without packing material
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## 161PX... T40



for ambient temperatures down to -40 °C

**Applications:**

Cooling chambers, frozen food stock etc.

16134 0012	<b>161PX 12L22 T40</b>	1	15	2.380	159	40	1 x 36W	2,8
16134 0015	<b>161PX 12L42 T40</b>	1	27	4.220	156	40	2 x 36W	2,8
16134 0013	<b>161PX 15L34 T40</b>	1	21	3.430	163	40	1 x 58W	3,4
16134 0016	<b>161PX 15L60 T40</b>	1	39	6.130	157	40	2 x 58W	3,4

## 161PX... T40 / H...



for wide temperature ranges from -40 °C up to +60°C/70°C

**Applications:**

Climatic chambers, material container, test benches in the automotive industry, regions with extreme temperature fluctuations etc.

**Design:**

As standard version, but:

Diffuser: Injection-molded polycarbonate, frosted for glare limitation.

Closure clips: Stainless steel (KE), incl. 2 safety clips (KES) to ensure protection against contact.

16134 0022	<b>161PX 12L22 T40 H70</b>	1	15	2.380	159	70	1 x 36W	2,8
16134 0025	<b>161PX 12L42 T40 H70</b>	1	27	4.220	156	70	2 x 36W	2,8
16134 0023	<b>161PX 15L34 T40 H70</b>	1	21	3.430	163	70	1 x 58W	3,4
16134 0026	<b>161PX 15L60 T40 H60</b>	1	39	6.130	157	60	2 x 58W	3,4

**Notes:**

The light fitting is **not suitable** for use in extremely exposed locations with high mechanical stress (wind load) or infrequent or occasional use (e.g. maintenance or inspection lighting).

For use in extremely exposed locations with high mechanical loads (wind load), we recommend our series 144 ... AUS or 107 ... G2 (PRIMO XR).

For infrequent or occasional use, we recommend our series 107 ... G2 (PRIMO XR) or the installation of a weather protection cover over the luminaire.

When mounting the light fittings on bracket poles or tubular beams/pipes always use original SCHUCH pipe clamps with support (see accessories).

Dustproof/Waterproof  
Light Fittings

## 161PX... AUS / 161PX VARIO AUS



for application in unprotected outdoor areas

**Applications:**

In protected and unprotected outdoor areas and industrial plants, mounted to walls, ceilings, catwalks and steel structures, pipe brackets, grating, under canopies, bus stops, train stations, subways, construction sites, etc.

**Design:**

As type 161PX..., but:

Diffuser: UV proof

Pressure compensation element: M20

Entries: 2 glands M20 at one small side, pressure compensation element M20 at the other small side, 1 screw plug M20.

**Mounting:**

Ceiling and horizontal wall mount or mounting to outreaches, poles, steel structures, catwalks, etc. by means of pipe clamps. For vertical mounting please consult us.

**Advantages of the AUS design:**

- glass fibre reinforced polyester housing, durable resistant against UV-radiation and chemical components.
- our injection-molded PMMA-covers are extremely UV-resistant and robust (wall thickness 2.0 mm)
- gasket are UV-, ozone-, weather-, chemically resistant and non-aging
- pressure compensation element provides controlled venting and thus protects against condensation
- the fitting can be installed in canopied as well as in entirely open outdoor areas



16131 0001	<b>161PX 06L12 AUS</b>	1	10	1.340	134	40	1 x 18W	1,7
16131 0004	<b>161PX 06L20 AUS</b>	1	16	2.260	141	40	2 x 18W	1,7
16131 0002	<b>161PX 12L22 AUS</b>	1	15	2.380	159	40	1 x 36W	2,8
16131 0005	<b>161PX 12L42 AUS</b>	1	27	4.220	156	40	2 x 36W	2,8
16131 0007	<b>161PX 12L60 AUS</b>	1	39	5.900	151	40	2 x 58W	2,8
16131 0009	<b>161PX 12L120 AUS</b>	1	77	11.470	149	35	2 x 80 bzw. 3 x 58W	3,1
16131 0003	<b>161PX 15L34 AUS</b>	1	21	3.430	163	40	1 x 58W	3,4
16131 0006	<b>161PX 15L60 AUS</b>	1	39	6.130	157	40	2 x 58W	3,4
16131 0008	<b>161PX 15L75 AUS</b>	1	49	7.410	151	40	> 2 x 58W	3,4
16131 0010	<b>161PX 15L150 AUS</b>	1	93	14.250	153	35	4 x 58W	3,7
16131 0127	<b>161PX 15L200 AUS</b>	1	122	19.400	159	35	6 x 58W	4,2
16131 0090	<b>161PX 12L VARIO AUS</b>	11		1.590	145	45	1 x 18W	2,8
				2.380	159	40	1 x 36W	
				3.400 <sup>2)</sup>	155	40	1 x 58W	
				4.220	156	40	2 x 36W	
				5.900	151	35	2 x 58W	

1) Examples of possible settings

2) Factory setting

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

Article no.	Type	Quantity of ECG	Connected load [W]	Luminous flux [lm]	Luminous efficacy [lm/W]	Ambient temperature max.[°C]	Substitute for ca. *	Weight [kg] without packing material
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NEW

## 161PX... TB/T



### with optics for rack aisles and workplace lighting

#### Applications:

High-bay warehouse, rack storage aisles, workplace-related lighting, etc.

#### Design:

Same as standard versions 161PX..., but with narrow-wide beam (TB) or narrow beam (T) optics.

16130 0171	<b>161PX 12L60TB</b>	1	39	5.900	151	40	2 x 58W	3,0
16130 0173	<b>161PX 12L120TB</b>	1	77	11.470	149	35	2 x 80 bzw. 3 x 58W	3,5
16130 0170	<b>161PX 15L60TB</b>	1	39	6.130	157	40	2 x 58W	3,6
16130 0172	<b>161PX 15L75TB</b>	1	49	7.410	151	40	> 2 x 58W	3,6
16130 0174	<b>161PX 15L150T</b>	1	93	14.250	153	35	4 x 58W	4,2
16130 0175	<b>161PX 15L200T</b>	1	122	19.400	159	35	6 x 58W	4,7

#### Product highlights<sup>1)</sup>:

- up to 30 % fewer luminaires compared to versions without optics
- up to 30 % energy cost savings
- up to 45% larger luminaire spacing
- significantly lower installation costs

<sup>1)</sup> Basis: Lighting design for 12 m high-bay warehouse, aisle width 3 m, luminaire type 161PX 15L200T

#### Note:

The light fittings in Version IFS are not suitable for cleaning with cleaning agents or disinfectants as well as the cleaning with water-jet units.



## 161PX... IFS



### for application in food industry areas

#### Applications:

Food industry or food processing factories, suppliers to the food industry who are falling in the International Featured Standard Food, BRC, HACCP or who are subject to comparably strict requirements.

#### Design:

Same as type 161PX... but:

**Diffuser:** cover Polycarbonate, frosted.

**Closure clips:** Stainless steel (KE), incl. 2 safety clips (KES) to ensure protection against contact.

16132 0001	<b>161PX 06L12 IFS</b>	1	10	1.340	134	40	1 x 18W	1,7
16132 0004	<b>161PX 06L20 IFS</b>	1	16	2.260	141	40	2 x 18W	1,7
16132 0002	<b>161PX 12L22 IFS</b>	1	15	2.380	159	40	1 x 36W	2,8
16132 0005	<b>161PX 12L42 IFS</b>	1	27	4.220	156	40	2 x 36W	2,8
16132 0007	<b>161PX 12L60 IFS</b>	1	39	5.900	151	40	2 x 58W	2,8
16132 0009	<b>161PX 12L120 IFS</b>	1	77	11.470	149	35	2 x 80 bzw. 3 x 58W	3,1
16132 0003	<b>161PX 15L34 IFS</b>	1	21	3.430	163	40	1 x 58W	3,4
16132 0006	<b>161PX 15L60 IFS</b>	1	39	6.130	157	40	2 x 58W	3,4
16132 0008	<b>161PX 15L75 IFS</b>	1	49	7.410	151	40	> 2 x 58W	3,4
16132 0010	<b>161PX 15L150 IFS</b>	1	93	14.250	153	35	4 x 58W	3,7
16132 0127	<b>161PX 15L200 IFS</b>	1	122	19.400	159	35	6 x 58W	4,2

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

#### IFS/BRC/VDMA/HACCP

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

#### Why use PC covers for IFS luminaires?

- splinter-free (in contrast to PMMA)
- risk minimisation, no risk of food contamination (see IFS Standard Food Issue 8, chapter 4.12 risk minimisation)
- extension of the inspection intervals in the risk zones of production

Article no.	Type	Quantity of ECG	Connected load [W]	Luminous flux [lm]	Luminous efficacy [lm/W]	Ambient temperature max.[°C]	Substitute for ca. *	Weight [kg] without packing material
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**Note:**

The diffusers of all 161PX... LM luminaires are made from 45% bio-based plastics.



**Note:**

The colour rendering index Ra does not incorporate the remaining part (R9) in the light spectrum. The standard light colour 840 has only a minor R9 value. For meat processing factories, we recommend the use of our light fitting with light colour 940 (special version), which emits a bigger amount of red light.

## 161PX... LM / 161PX... VARIO LM



### for application in food areas

#### Applications:

Food industry or food processing factories especially in risky areas of the food production or processing, suppliers to the food industry who are falling in the International Featured Standard Food, BRC or HACCP standards or who are subject to comparably strict requirements (e.g. production of food packaging).

#### Design:

Same as type 161PX... but:

**Diffuser:** Shatterproof, high chemical resistance, elements for glare limitation mounted to the reflector.

**Closure clips:** Stainless steel (KE), incl. 2 safety clips (KES) to ensure protection against contact.

#### Advantages of the LM version:

- shatterproof diffuser with very high impact resistance (16 Nm!) even at a high continuous operating temperature
- resistant to grease and aggressive cleaning agents, disinfectants and solvents (we recommend the respective cleaning agents and disinfectants to be tested on their resistance. Resistance index on request.)
- Risk minimisation, no risk of food contamination (see IFS Standard Food Issue 8, Chapter 4.12 Risk minimisation)
- Extension of the inspection intervals in the risk zones of production

#### IFS/BRC/VDMA/HACCP

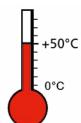
SCHUCH Light Fittings designed for food and beverage industry applications are in accordance with IFS/BRC/VDMA standards. They can be operated without restrictions in operations that must fulfill the HACCP Concept.

16132 0021	<b>161PX 06L12 LM</b>	1	10	1.340	134	40	1 x 18W	1,7
16132 0024	<b>161PX 06L20 LM</b>	1	16	2.260	141	40	2 x 18W	1,7
16132 0022	<b>161PX 12L22 LM</b>	1	15	2.380	159	40	1 x 36W	2,8
16132 0025	<b>161PX 12L42 LM</b>	1	27	4.220	156	40	2 x 36W	2,8
16132 0027	<b>161PX 12L60 LM</b>	1	39	5.900	151	40	2 x 58W	2,8
16132 0029	<b>161PX 12L120 LM</b>	1	77	11.470	149	35	2 x 80 bzw. 3 x 58W	3,1
16132 0023	<b>161PX 15L34 LM</b>	1	21	3.430	163	40	1 x 58W	3,4
16132 0026	<b>161PX 15L60 LM</b>	1	39	6.130	157	40	2 x 58W	3,4
16132 0028	<b>161PX 15L75 LM</b>	1	49	7.410	151	40	> 2 x 58W	3,4
16132 0030	<b>161PX 15L150 LM</b>	1	93	14.250	153	35	4 x 58W	3,7
16132 0128	<b>161PX 15L200 LM</b>	1	122	19.400	159	35	6 x 58W	4,2
16132 0090	<b>161PX 12L VARIO LM</b>							
			11	1.590	145	45	1 x 58W	2,8
			15	2.380	159	40	1 x 36W	
			22	3400 <sup>2)</sup>	155	40	1 x 58W	
			27	4.220	156	40	2 x 36W	
			39	5.900	151	35	2 x 58W	

## 161PX... LM H50



### for high ambient temperatures up to +50 °C

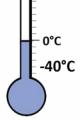


16132 0041	<b>161PX 06L12 LM H50</b>	1	10	1.340	134	50	1 x 18W	1,7
16132 0044	<b>161PX 06L20 LM H50</b>	1	16	2.260	141	50	2 x 18W	1,7
16132 0042	<b>161PX 12L22 LM H50</b>	1	15	2.380	159	50	1 x 36W	2,8
16132 0045	<b>161PX 12L42 LM H50</b>	1	27	4.220	156	50	2 x 36W	2,8
16132 0043	<b>161PX 15L34 LM H50</b>	1	21	3.430	163	50	1 x 58W	3,4
16132 0046	<b>161PX 15L60 LM H50</b>	1	39	6.130	157	50	2 x 58W	3,4

## 161PX... LM T40



### for ambient temperatures down to -40 °C



16132 0052	<b>161PX 12L22 LM T40</b>	1	15	2.380	159	40	1 x 36W	2,8
16132 0055	<b>161PX 12L42 LM T40</b>	1	27	4.220	156	40	2 x 36W	2,8
16132 0053	<b>161PX 15L34 LM T40</b>	1	21	3.430	163	40	1 x 58W	3,4
16132 0056	<b>161PX 15L60 LM T40</b>	1	39	6.130	157	40	2 x 58W	3,4

1) Examples of possible settings

2) Factory setting

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

Article no.	Type	Quantity of ECG	Connected load [W]	Luminous flux [lm]	Luminous efficacy [lm/W]	Ambient temperature max.[°C]	Substitute for ca. *	Weight [kg] without packing material
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## 161PX... HE



highly efficient design for reduced energy consumption

**Note:**

All 161PX... HE luminaires contain a light source with energy efficiency class A.

16130 0140	<b>161PX 12L42 HE</b>	1	22	4.050	184		2 x 36W	2,8
16130 0141	<b>161PX 12L60 HE</b>	1	35	6.390	183		2 x 58W	2,8
16130 0142	<b>161PX 12L90 HE</b>	1	52	9.500	183		< 3 x 58W	2,8
16130 0143	<b>161PX 12L120 HE</b>	1	69	12.610	183		2 x 80 bzw. 3 x 58W	2,8
16130 0144	<b>161PX 15L34 HE</b>	1	19	3.690	194		1 x 58W	3,4
16130 0145	<b>161PX 15L60 HE</b>	1	32	6.040	189		2 x 58W	3,4
16130 0146	<b>161PX 15L75 HE</b>	1	43	7.980	186		> 2 x 58W	3,4
16130 0147	<b>161PX 15L120 HE</b>	1	70	12.840	183		2 x 80 bzw. 3 x 58W	3,4
16130 0148	<b>161PX 15L150 HE</b>	1	86	15.760	183		4 x 58W	3,4



## 161PX... HE DIMD



dimmable via DALI interface

**Design:**

Same as standard version HE, but with DALI2-ECG and 2 additional clamping points. Dimming range 1 -100 %. Compatible with LIMAS Line Light Management System.

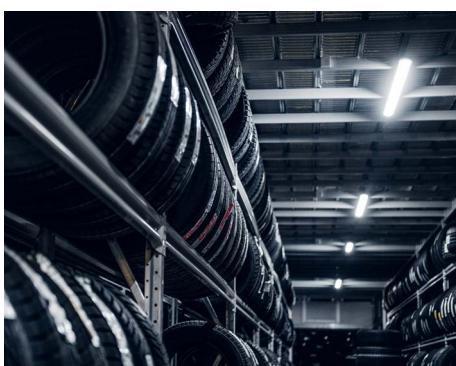
16130 0150	<b>161PX 12L42 HE DIMD</b>	1	22	4.050	184		2 x 36W	2,8
16130 0151	<b>161PX 12L60 HE DIMD</b>	1	35	6.390	183		2 x 58W	2,8
16130 0152	<b>161PX 12L90 HE DIMD</b>	1	52	9.500	183		< 3 x 58W	2,8
16130 0153	<b>161PX 12L120 HE DIMD</b>	1	69	12.610	183		2 x 80 bzw. 3 x 58W	2,8
16130 0154	<b>161PX 15L34 HE DIMD</b>	1	19	3.690	194		1 x 58W	3,4
16130 0155	<b>161PX 15L60 HE DIMD</b>	1	32	6.040	189		2 x 58W	3,4
16130 0156	<b>161PX 15L75 HE DIMD</b>	1	43	7.980	186		> 2 x 58W	3,4
16130 0157	<b>161PX 15L120 HE DIMD</b>	1	70	12.840	183		2 x 80 bzw. 3 x 58W	3,4
16130 0158	<b>161PX 15L150 HE DIMD</b>	1	86	15.760	183		4 x 58W	3,4

## 161PX... ER / HR (RESISTANT)



**Note:**

See notes in the technical appendix, chapter 4.4.



for use in hazardous areas

**Applications:**

Areas in trade, trade and industry with corrosive atmospheres or craft gases and vapors that can damage the LED up to and including total failure.

E.g. chemical industry, galvanizing plants, electroplating plants, foundries, tire production and storage, paper mills, sewage treatment plants, waste incineration plants etc. Advice on request.

16133 0001	<b>161PX 06L12 ER</b>	1	10	1.340	134	40	1 x 18W	1,7
16133 0004	<b>161PX 06L20 ER</b>	1	16	2.370	148	40	2 x 18W	1,7
16133 0002	<b>161PX 12L22 ER</b>	1	15	2.380	159	40	1 x 36W	2,8
16133 0005	<b>161PX 12L42 ER</b>	1	27	4.430	164	40	2 x 36W	2,8
16133 0007	<b>161PX 12L60 ER</b>	1	39	6.200	159	40	2 x 58W	2,8
16133 0009	<b>161PX 12L120 ER</b>	1	77	12.040	156	35	2 x 80 bzw. 3 x 58W	3,1
16133 0003	<b>161PX 15L34 ER</b>	1	21	3.430	163	40	1 x 58W	3,4
16133 0006	<b>161PX 15L60 ER</b>	1	39	6.440	165	40	2 x 58W	3,4
16133 0008	<b>161PX 15L75 ER</b>	1	49	7.780	159	40	> 2 x 58W	3,4
16133 0010	<b>161PX 15L150 ER</b>	1	93	14.960	161	35	4 x 58W	3,7
16133 0011	<b>161PX 06L12 HR</b>	1	10	1.340	134	40	1 x 18W	2,0
16133 0014	<b>161PX 06L20 HR</b>	1	16	2.370	148	40	2 x 18W	2,0
16133 0012	<b>161PX 12L22 HR</b>	1	15	2.380	159	40	1 x 36W	3,1
16133 0015	<b>161PX 12L42 HR</b>	1	27	4.430	164	40	2 x 36W	3,1
16133 0017	<b>161PX 12L60 HR</b>	1	39	6.200	159	40	2 x 58W	3,1
16133 0019	<b>161PX 12L120 HR</b>	1	77	12.040	156	35	2 x 80 bzw. 3 x 58W	3,8
16133 0013	<b>161PX 15L34 HR</b>	1	21	3.430	163	40	1 x 58W	3,7
16133 0016	<b>161PX 15L60 HR</b>	1	39	6.440	165	40	2 x 58W	3,7
16133 0018	<b>161PX 15L75 HR</b>	1	49	7.780	159	40	> 2 x 58W	3,7
16133 0020	<b>161PX 15L150 HR</b>	1	93	14.960	161	35	4 x 58W	4,3

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



Article no.	Type	Quantity of ECG	Connected load [W]	Luminous flux [lm]	Luminous efficacy [lm/W]	Ambient temperature max.[°C]	Substitute for ca. *	Weight [kg] without packing material
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## 161PX... FastConnect (FC)

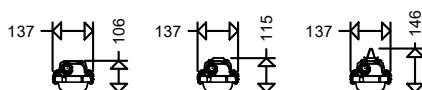
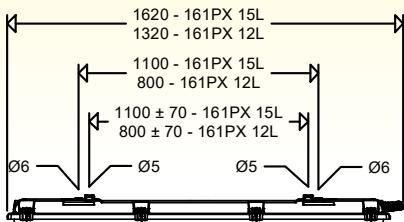


### with quick mounting system

**Design:** Same as standard but, with pre-assembled quick mounting system (FastFix) and quick connector (FastConnect), for 3-pole connecting cable up to 2.5 mm<sup>2</sup> (Ø 7.5 – 12.5 mm)

#### Advantages of the FastConnect version:

- quick connector with pre-assembled strain relief
- installation and electrical connection without opening the light fitting



16130 0192	<b>161PX 12L22 FC</b>	1	15	2.380	159	40	1 x 36W	2,8
16130 0193	<b>161PX 12L42 FC</b>	1	27	4.220	156	40	2 x 36W	2,8
16130 0194	<b>161PX 15L34 FC</b>	1	21	3.430	163	40	1 x 58W	3,4
16130 0195	<b>161PX 15L60 FC</b>	1	39	6.130	157	40	2 x 58W	3,4

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

#### Note:

The FC version can be supplied together with various special versions. The maximum possible ambient temperature is 50 ° C.

## Accessories / Spare Parts

Article no.	Type	Article no.	Type		
<b>spare glasses, PMMA frosted</b>		<b>spare glasses, PC frosted</b>			
16111 9040	<b>ABD 161PX 06</b>	16111 9043	<b>ABD 161PX 06 PC</b>		
16111 9041	<b>ABD 161PX 12</b>	16111 9044	<b>ABD 161PX 12 PC</b>		
16111 9042	<b>ABD 161PX 15</b>	16111 9045	<b>ABD 161PX 15 PC</b>		
<b>spare glasses LM-version</b>					
16111 9046	<b>ABD 161PX 06 LM</b>				
16111 9047	<b>ABD 161PX 12 LM</b>				
16111 9048	<b>ABD 161PX 15 LM</b>				
<b>Fasteners</b>					
90053 9009	<b>KKS FR VE10</b>	plastic safety clips (packing unit 10 pcs.)			
90055 9007	<b>KE/KES G2 VE10</b>	stainless steel clips, incl. 2 safety clips (packing unit 10 pcs.)			
90053 9004	<b>KKS P</b>	1 pair of safety clips (for LED version), plastic			
90055 9006	<b>KES G2 P</b>	1 pair of safety clips (for LED version), stainless steel			
<b>Cable entries/pressure compensation elements</b>					
90063 9000	<b>2511</b>	blanking plug M20			
25610 9000	<b>2561</b>	plastic cable gland M20 x 1,5			
25600 9000	<b>2560</b>	plastic cable gland M25 x 1,5			
90259 9002	<b>DAE20</b>	pressure compensation element M20			
90259 9003	<b>DAE 20/25</b>	adapter gland M20 -> M25 with pressure compensation			
<b>Pipe clamps</b>					
90094 0005	<b>183 RO 112 A P SD</b>	2 pcs., 1 1/2" stainless steel, with support			
90094 0006	<b>183 RO 2 A P SD</b>	2 pcs., 2" stainless steel, with support			
Consider mounting distances when installing the light fittings by pipe clamps to pole outreaches or any brackets.					
<b>Swivel arm mounting</b>					
90303 9000	<b>SWABF 161PX E4 P</b>	1 pair of swivel arm mountings, stainless steel A4			
<b>Infrared remote control for SENS-light fittings</b>					
90295 9000	<b>FB SENSOtec-MINI</b>	Infrared remote control for 161PX .. SENS			

**SWABF 161PX E4 P**



## LUXANO 2

### Dustproof/Waterproof LED Light Fitting with Diffuser Series 167 ... G2 / 167... G2 VARIO

#### Applications:

In humid, wet and dusty indoor areas of industrial and agricultural premises, for workshops and car parks etc.

(For damp and cold ambient conditions with low duty cycles and in the case of aggressive atmosphere, please contact us)

#### Applications:

Housing: Glass fibre reinforced polyester resin, foamed polyurethane gasket.

Diffuser: PMMA, frosted for glare limitation.

Closures: stainless steel, in order to ensure the protection against contact.

The light fitting can be opened with a tool only.

Reflector: Painted, removable, completed with electronic components.

Electrical connection: 3-pole terminal block.

Cable entries: 2 blanking plugs M20.

Cable entries open at the front. Variable cable entry pre-pressed on the long side and top side.

Mounting system: 2 retaining clips made of stainless steel, 2 bracket for chain suspension (part of the delivery)

#### VARIO versions with variable setting of the luminous flux

#### Applications:

Factories in which, for reasons of maximum standardization and economic storage, only one type of damp-proof luminaire is to be used, which can be used for a wide variety of lighting tasks due to its variably adjustable luminous flux.

#### Design:

As standard version but with DIP switch for setting the luminous flux without tools. The luminaire luminous flux can be set to four values. Depending on the set luminous flux, the power consumption of the light fitting and the maximum permissible ambient temperature change.

#### Technical data:

LED: Linear modules 4,000 K, CRI > 80, service life  $L_{80} > 50,000$  h and  $L_{70} > 100,000$  h at max. ambient temperature

#### Type HE CS / HE VARIO / L100 / LW / ER DIMD / T40/50

LED: Linear modules 4,000 K, CRI > 80, service life  $L_{90} > 50,000$  h at 25 °C ambient temperature, service life  $L_{80} > 70,000$  h and  $L_{70} > 100,000$  h at max. ambient temperature

ECG: 220-240 V, 50/60 Hz

Ambient temperature: -20 °C up to see article table

#### Options:

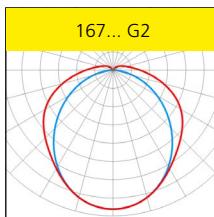
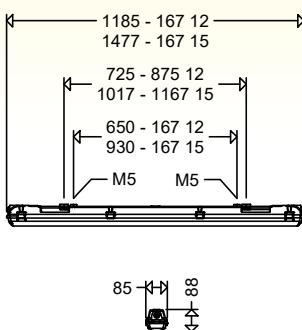
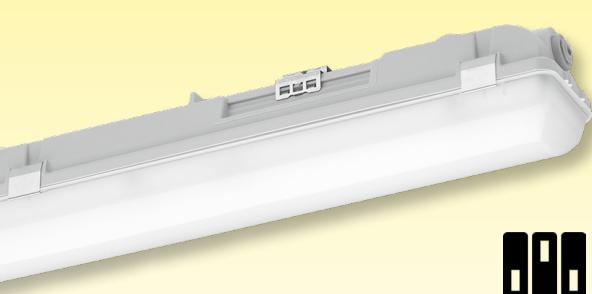
- 2,200 K, 2,700 K, 3,000 K, 5,000 K, 6,500 K; light colours (822, 827, 830, 850, 865)
- 1,800 K; light colour (518), amber for insect-friendly lighting in outdoor areas etc.
- coloured LEDs, for signal applications
- through-wiring (DV)
- cable looping at 1 small side
- FastConnect (FC), quick-connector
- rear cable entry
- protection class II (SKII)

#### 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)
- maximum standardisation and most economical warehousing

#### General product highlights of the LUXANO 2 series:

- quality luminaire with high-end components from renowned manufacturers
- stainless steel locking fasteners
- safety locks to ensure protection against accidental contact
- FastFix quick mounting system, with retaining clips made of stainless steel for variable mounting distances, without opening the fitting.
- variable cable entries, closed knock-outs on the short and long sides, and on the backside
- homogeneous illumination by using frosted diffusers, no individual light spots visible, comfortable perception of light and excellent glare limitation
- high flexibility thanks to a wide range of modifications
- sustainable, control gear and LED-module replaceable by qualified personnel on-site



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](http://www.schuch.de).

Article no.	Type	Quantity of ECG	Connected load [W]	Luminous flux [lm] <sup>1)</sup>	Luminous efficacy [lm/W]	Tmax [°C]	Substitute for *	Weight [kg] without packing material
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## 167... G2 / ... G2 VARIO



**Notes:**

In case of horizontal installation, the light fitting must be fixed directly with screws (washer and pressure disk are included) or it must be mounted with reinforced retaining clips (see accessories)!

16700 0020	<b>167 12LG2 VARIO</b>	1	18	2.700	150	35	> 1 x 36W	1,7
			21	3.100	148	35	< 1 x 58W	
			26	3.800	146	35	> 1 x 58W	
			30	4.300 <sup>2)</sup>	143	35	2 x 36W	

16700 0021	<b>167 15LG2 VARIO</b>	1	25	3.800	152	35	> 1 x 58W	1,9
			29	4.400	152	35	2 x 36W	
			36	5.400	150	35	< 2 x 58W	
			43	6.200 <sup>2)</sup>	144	35	2 x 58W	

16700 0022	<b>167 15L100 G2 VARIO</b>	1	18	3.030	168	50	< 1x 58W	2,0
			31	5.450	176	40	< 2x 58W	
			40	6.940 <sup>2)</sup>	174	40	> 2x 58W	
			53	8.780	166	35	< 3x 58W	
			62	10.110	163	35	3x 58W	
			70	11.210	160	35	< 4x 58W	

## 167... G2 HE VARIO



### highly efficient design for reduced energy consumption

The luminaire luminous flux can be set to four values. Depending on the set luminous flux, the power consumption of the light fitting and the maximum permissible ambient temperature change.

16704 0001	<b>167 12LG2 HE VARIO</b>	1	19	3.250 <sup>2)</sup>	171	40	1 x 58W	1,7
			24	4.000	167	40	> 1 x 58W	
			29	4.770	164	40	2 x 36W	
			34	5.540	163	35	> 2 x 36W	

16704 0002	<b>167 15LG2 HE VARIO</b>	1	24	4.070	170	40	>1 x 58W	2,0
			30	5.000	167	40	2 x 36W	
			36	5.960 <sup>2)</sup>	166	40	2 x 58W	
			43	6.930	161	35	> 2 x 58W	

## 167... G2 AUS / ... G2 VARIO AUS



**Notes:**

The light fitting is not to be used in areas with high mechanical stress (wind) or seldom usage (i.e. maintenance and inspection only).

We recommend our series 144... in AUS-version or a weather roof within very critical environmental conditions.

### for application in unprotected outdoor areas

#### Applications:

In protected and unprotected outdoor areas, mounted to walls, ceilings, catwalks, under canopies, bus stops, train stations, subways, construction sites, etc.

#### Design:

As type 167... G2, but:

Diffuser: UV proof

Gasket: silicone

Pressure compensation element: M20

Entries: 1 gland M20 at one small side, pressure compensation element M20 at the other small side.

Mounting system: 2 reinforced retaining clips (also suitable for horizontal wall mounting) made of stainless steel (part of the delivery)

16701 0030	<b>167 12LG2 VARIO AUS</b>	1	18	2.700	150	35	> 1 x 36W	1,7
			21	3.100	148	35	< 1 x 58W	
			26	3.800	146	35	> 1 x 58W	
			30	4.300 <sup>2)</sup>	143	35	2 x 36W	

16701 0031	<b>167 15LG2 VARIO AUS</b>	1	25	3.800	152	35	> 1 x 58W	1,9
			29	4.400	152	35	2 x 36W	
			36	5.400	150	35	< 2 x 58W	
			43	6.200 <sup>2)</sup>	144	35	2 x 58W	

16701 0032	<b>167 15L100G2 VARIO AUS</b>	1	18	3.030	168	50	< 1x 58W	2,0
			31	5.450	176	40	< 2x 58W	
			40	6.940 <sup>2)</sup>	174	40	> 2x 58W	
			53	8.780	166	35	< 3x 58W	
			62	10.110	163	35	3x 58W	
			70	11.210	160	35	< 4x 58W	

1) possible setting range

2) Factory setting

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

Article no.	Type	Quantity of ECG	Connected load [W]	Luminous flux [lm] <sup>1)</sup>	Luminous efficacy [lm/W]	Tmax [°C]	Substitute for *	Weight [kg] without packing material
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## 167... G2 IFS / ... G2 VARIO IFS



### Notes:

The light fittings in Version IFS are not suitable for cleaning with cleaning agents or disinfectants as well as the cleaning with water-jet units.

### for application in food industry areas

#### Applications:

Food industry or food processing factories, suppliers to the food industry who are falling in the International Featured Standard Food, BRC, HACCP or who are subject to comparably strict requirements.

#### Design:

Same as type 167... G2 but:

**Diffuser:** cover Polycarbonate, frosted.

16719 0020	<b>167 12LG2 VARIO IFS</b>	1	18	2.700	150	35	> 1 x 36W	1,7
			21	3.100	148	35	< 1 x 58W	
			26	3.800	146	35	> 1 x 58W	
			30	4.300 <sup>2)</sup>	143	35	2 x 36W	
16719 0021	<b>167 15LG2 VARIO IFS</b>	1	25	3.800	152	35	> 1 x 58W	1,9
			29	4.400	152	35	2 x 36W	
			36	5.400	150	35	< 2 x 58W	
			43	6.200 <sup>2)</sup>	144	35	2 x 58W	
16719 0022	<b>167 15L100G2 VARIO IFS</b>	1	18	3.030	168	50	< 1x 58W	2,0
			31	5.450	176	40	< 2x 58W	
			40	6.940 <sup>2)</sup>	174	40	> 2x 58W	
			53	8.780	166	35	< 3x 58W	
			62	10.110	163	35	3x 58W	
			70	11.210	160	35	< 4x 58W	

1) possible setting range

2) Factory setting

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

### Why use PC covers for IFS luminaires?

- splinter-free (in contrast to PMMA)
- risk minimisation, no risk of food contamination (see IFS Standard Food Issue 8, chapter 4.12 risk minimisation)
- extension of the inspection intervals in the risk zones of production

## 167... G2 DIMD



### dimmable via DALI interface

#### Design:

Same as standard version, but with DALI2-ECG and 2 additional clamping points. Dimming range 1 -100 %. Compatible with LIMAS Line Light Management System.

16700 0033	<b>167 12L42G2 DIMD</b>	1	30	4.100	137	35	2 x 36W	1,7
16700 0032	<b>167 15L34G2 DIMD</b>	1	28	3.850	138	35	1 x 58W	2,0
16700 0034	<b>167 15L60G2 DIMD</b>	1	43	6.000	140	35	2 x 58W	2,0
16700 0035	<b>167 15L100G2 DIMD</b>	1	70	11.210	160	35	3 x 58W	2,2

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



## 167... G2 DIMC/SENS - General information

### Applications:

Areas in which the lighting is controlled via motion sensors or door contacts, e.g. storage areas, rack aisles, parking garages etc.

SENS luminaires: are controlled by L' and can generate L'

DIMC luminaires: are controlled by L'

### Design:

As standard version but with DIM ECG and additional terminal point, labeled L', optionally with HF sensor (SENS types), see table.

	Clamping point L'	wireless switching	Integrated sensor	Switches off after 30 minutes
167... G2 DIMC	x	x	-	-
167... G2 DIMC-Z30	x	x	-	x
167... G2 SENS	x	x	x	-
167... G2 SENS-Z30	x	x	x	x

### Product highlights:

- simple installation and commissioning
- no software or apps required for operation
- only one mains-insulated control cable is required
- "Stand-alone operation" of the SENS luminaires possible, no control phase is required for this
- large energy saving potential through
  - Power consumption reduced by up to 90 % in dimming mode
  - shorter operating time for Z30 versions
- no gateway required
- use of external sensors possible

### Technical data:

Control: Any number of DIMC or SENS luminaires can be controlled via the control phase of the SENS luminaires. Switching is powerless. If movement is no longer detected by a SENS luminaire or an external sensor detected (depending on the set hold time), the control phase switches to 0 V and all luminaires connected to the control phase dim to 10 % (factory setting). Please observe the installation instructions in the Technical Supplement.

Programming: the following parameters, among others, can be changed on the LED control gear via the NFC interface: Luminous flux, dimming ramp, switch-off time.

Programming can be done via smartphone and free app.

Detection range of the HF sensor: Depending on the light point height, the detection range is 1-5 m:

– Light point height approx. 2.5 m: Detection area approx. 3 m diameter

– Light point height approx. 0.5 - 5 m: Detection area max. 5 m diameter

Structures such as concrete pillars can restrict the detection area. Materials such as drywall can be penetrated.

### Factory settings:

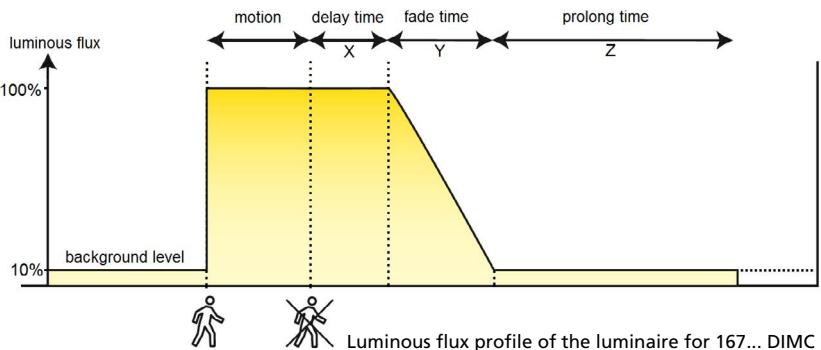
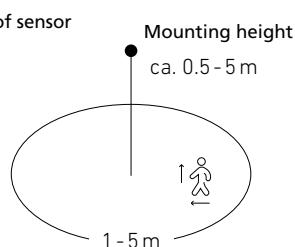
- Standard sensor hold time (X): 5 minutes can be set (see setting options), only for SENS types
- Dimming ramp (Y): 30 seconds, for DIMC and SENS types
- Reduced operation ( $L' = 0V$ ): 10 % luminous flux if no activity is detected, for SENS and DIMC types
- Automatic switch-off deactivated (Z), luminaire never switches off.

– For further information, see illustration "Luminous flux profile of the luminaire" for 161PX... DIMC.

Setting options for SENS luminaires: Via potentiometer on the sensor or optionally via IR remote control (article number 90295 9000):

- Sensitivity of the sensor to avoid unwanted detections in the edge area
- Hold time of the sensor from 10 seconds to 30 minutes, with IR remote control up to 60 minutes

Ambient temperature: -20 °C to see table



Article no.	Type	Quantity of ECG	Connected load [W]	Luminous flux [lm] <sup>1)</sup>	Luminous efficacy [lm/W]	Tmax [°C]	Substitute for *	Weight [kg] without packing material
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**167... G2 DIMC****Note:**

Since the switching capabilities of LED modules and control devices are limited, dimming without switching of the light fitting completely will result in a much longer life of the light fitting.

**Factory settings DIMC types:**

- Automatic switch-off deactivated, light never switches off.

16700 0037	<b>167 12L42G2 DIMC</b>	1	30	4.100	137	35	2 x 36W	1,7
16700 0036	<b>167 15L34G2 DIMC</b>	1	28	3.850	138	35	1 x 58W	2,0
16700 0038	<b>167 15L60G2 DIMC</b>	1	43	6.000	140	35	2 x 58W	2,0
16700 0039	<b>167 15L100G2 DIMC</b>	1	70	11.210	160	35	3 x 58W	2,2

**167... G2 DIMC-Z30****with Corridor Mode and automatic switch-off function****Design:**

As DIMC version but with automatic switch-off after 30 minutes.

**Default settings different from DIMC types:**

- automatic cutoff activated (10 % background illumination for 30 minutes, then the light fitting is switched off [0 %]).

16700 0067	<b>167 12L42G2 DIMC-Z30</b>	1	30	4.100	137	35	2 x 36W	1,7
16700 0066	<b>167 15L34G2 DIMC-Z30</b>	1	28	3.850	138	35	1 x 58W	2,0
16700 0068	<b>167 15L60G2 DIMC-Z30</b>	1	43	6.000	140	35	2 x 58W	2,0
16700 0089	<b>167 15L100G2 DIMC-Z30</b>	1	70	11.210	160	35	3 x 58W	2,2

**167... G2 SENS****DIMC version with integrated motion sensor****Design:**

As DIMC version, but with integrated motion sensor. As a master luminaire, the luminaire can control all DIMC luminaires connected to it.

**Factory settings SENS types:**

- Automatic switch-off deactivated, light never switches off.

16700 0050	<b>167 12L42G2 SENS</b>	1	23	3.840	167	40	2 x 36W	1,7
16700 0051	<b>167 15L34G2 SENS</b>	1	21	3.660	174	40	1 x 58W	2,0
16700 0052	<b>167 15L60G2 SENS</b>	1	36	5.810	166	40	2 x 58W	2,0

**167... G2 SENS-Z30****DIMC-Z30 version with integrated motion sensor and switch-off after 30 minutes****Design:**

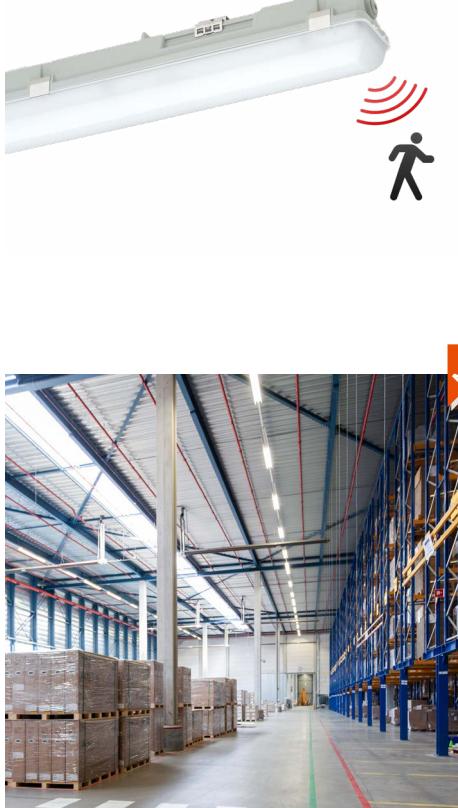
As DIMC version, but with integrated motion sensor. As a master luminaire, the luminaire can control all DIMC-Z30 luminaires connected to it.

**Factory settings different from SENS types:**

- Automatic switch-off activated: 30 minutes 10 % background level, then standby mode (0 %)..

16700 0055	<b>167 12L42G2 SENS-Z30</b>	1	23	3.840	167	40	2 x 36W	1,7
16700 0056	<b>167 15L34G2 SENS-Z30</b>	1	21	3.660	174	40	1 x 58W	2,0
16700 0057	<b>167 15L60G2 SENS-Z30</b>	1	36	5.810	166	40	2 x 58W	2,0

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



Article no.	Type	Quantity of ECG	Connected load [W]	Luminous flux [lm] <sup>1)</sup>	Luminous efficacy [lm/W]	Tmax [°C]	Substitute for *	Weight [kg] without packing material
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Download Google Play

Download App Store

## 167... G2 HE CS



with smart LIMAS Air light control via radio

### Applications:

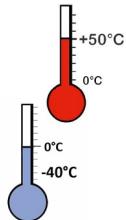
Areas where no DALI lines are available or planned, but the luminaires are to be controlled intelligently.

Explanations on smart light control as well as further system components (sensors / switches / pushbuttons etc.) can be found in the catalog section „Light Management - LIMAS Air“.

### Product highlights:

- each individual luminaire separately controllable
- compatible with all LIMAS Air system components
- convenient configuration and control via radio using free smartphone app (Android and iOS)
- no gateway and no internet connection required
- extensive portfolio of sensors and actuators
- high-efficiency design (HE) for reduced energy consumption
- significant reduction of operating costs and CO<sub>2</sub> reduction

16700 0090	167 12L42G2 HE CS	1	27	4.380	162	40	2 x 36W	1,7
16700 0091	167 15L60G2 HE CS	1	39	6.460	166	40	2 x 58W	2,0



## 167... G2 T40 / H50



for wide temperature ranges from -40 °C up to +50 °C

16700 0083	167 12L42G2 T40 H50	1	27	4.380	162	50	2 x 36W	1,7
16700 0082	167 15L34G2 T40 H50	1	24	4.070	170	50	1 x 58W	2,0
16700 0084	167 15L60G2 T40 H50	1	39	6.460	166	50	2 x 58W	2,0



## 167... G2 HL



for particularly humid rooms

### Applications:

Agricultural storage (vegetables, potatoes, etc.), wine cellars, technical areas in drinking water supply systems, areas with very high humidity and predominantly short operating times.

### Note:

Select series PRIMO XR for condensation on ceilings/walls.



### Product highlights:

- specially designed for high humidity with predominantly short operating times
- corrosion-proof encapsulated ECG
- highly resistant LED modules with additional protective coating
- extremely efficient
- low-glare light due to satinised cover tray

16706 0003	167 12L42G2 HL	1	23	4.000	174	35	1 x 58W	1,7
16706 0004	167 15L60G2 HL	1	37	6.140	166	35	2 x 58W	2,0

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

Article no.	Type	Quantity of ECG	Connected load [W]	Luminous flux [lm] <sup>1)</sup>	Luminous efficacy [lm/W]	Tmax [°C]	Substitute for *	Weight [kg] without packing material
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## 167... G2 LW

### for application in stables and agriculture farming

#### Applications:

Pigsties with increased ammonia exposure, dairy cattle, cattle and horse barns.

Damp, wet and dusty rooms in agricultural premises as well as rooms with increased fire risk due to combustible dusts, e.g. barns, straw and feed storage.



#### Design:

Same as type 167... G2 but with corrosion-proof and highly ammonia-resistant components.

Gasket: silicone

Cable entries: 1 gland M20 at one small side, blanking plug M20 at the other small side.

Mounting system: 2 reinforced retaining clips (also suitable for horizontal wall mounting), made of stainless steel, 2 brackets for chain suspension (part of the delivery).

#### Product highlights:

- permanently ammonia-resistant design
- corrosion-proof encapsulated electronic ballast
- highly resistant LED Modules with additional protective coating
- extremely efficient up to 174 lm/W
- none-flickering light to avoid stress and to ensure animal welfare
- DLG (German Agricultural Society) exam



16702 0013	167 12L42G2 LW	1	23	4.000	174	35	1 x 58W	1,7
16702 0014	167 15L60G2 LW	1	37	6.140	166	35	2 x 58W	2,0

#### Note:

The light fitting 167 ... G2 ER DIMD is not suitable for use in pig stalls! We recommend using our 107... PRIMO XR LW DIMD series.



## 167... G2 ER DIMD

### for application in stables and agriculture farming

#### Applications:

In poultry farming in accordance with the German Animal Welfare (TierSCHNutzV), dairy cattle, cattle and horse stables.

Damp, wet and dusty rooms in agricultural premises as well as rooms with increased fire risk due to combustible dusts, e.g. barns, straw and feed stores.



#### Design:

Like version 167 ... G2 LW but with DALI2-ECG (not encapsulated in a corrosion-proof manner) and 2 additional terminal points. Dimming range 1-100 %.

Compatible with LIMAS Line Light Management System.

16702 0023	167 12L42G2 ER DIMD	1	24	4.170	174	35	2 x 36W	1,7
16702 0024	167 15L60G2 ER DIMD	1	37	6.140	166	35	2 x 58W	2,0

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

#### 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.

## Accessories / Spare Parts

Article no.	Type	
<b>spare glasses, PMMA, frosted</b>		
16711 9003	<b>ABD 167 12 G2</b>	cover, frosted PMMA diffuser, for 167 12 ... G2
16711 9004	<b>ABD 167 15 G2</b>	cover, frosted PMMA diffuser, for 167 15 ... G2
16711 9005	<b>ABD 167 12 G2 PC</b>	cover, frosted PC diffuser, for 167 12 ... G2
16711 9006	<b>ABD 167 15 G2 PC</b>	cover, frosted PC diffuser, for 167 15... G2
<b>Fasteners</b>		
90123 9008	<b>167G2 KE V10</b>	stainless steel (packing unit 10)
<b>Cable entries/pressure compensation elements</b>		
90063 9000	<b>2511</b>	blanking plug M20
25610 9000	<b>2561</b>	plastic cable gland M20 x 1,5
90295 9002	<b>DAE20</b>	pressure compensation element M20 for ... AUS
<b>Accessories</b>		
90049 0004	<b>HK 167 G2 P</b>	1 pair of retaining clips (stainless steel) reinforced for variable mounting
<b>Infrared remote control for SENS-light fittings</b>		
90295 9000	<b>FB SENSTEC-MINI</b>	Infrared remote control for 167... G2 SENS



# 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:

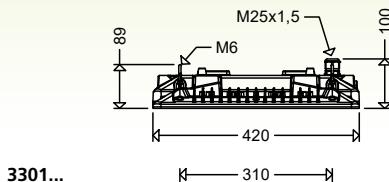
Two versions are available: 1 (3301...) or 2 (3302...) LED-segments.

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.

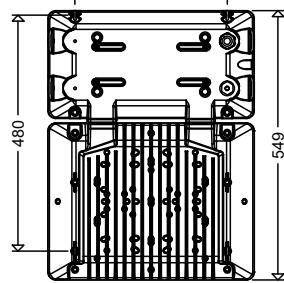
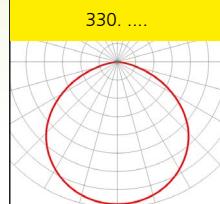
Light distribution: Without optics wide beam, with optics wide (B), narrow-wide (TB) or narrow beam (T), with oval optics (TO) for illumination of aisles in rack areas respectively asymmetrical beam (A).

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

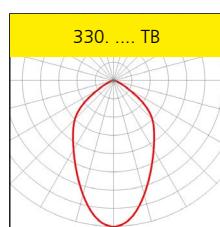
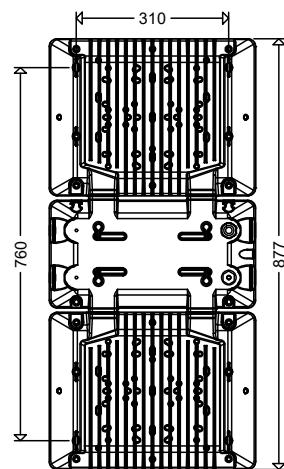
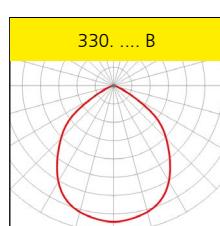
Mounting: 4 eyelets M6 included in delivery.



3301...



3302...



#### 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-moules, 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



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

See "Technical Supplement"

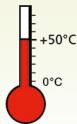
All data are correct at the time of printing. Actual technical data can be found under [www.schuch.de](http://www.schuch.de).

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 *
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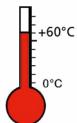
## 3301...

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

1 LED segment



3301...



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

135 | 20.200 | 150 | HIE 400

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

33010 0004	<b>3301 L110 H60</b>		•				8,9
33010 0006	<b>3301 L110B H60</b>		•				9,2
33010 0015	<b>3301 L110TB H60</b>			•			9,2
33010 0008	<b>3301 L110T H60</b>				•		9,2
33010 0203	<b>3301 L110 DIMD H60</b>	•	•				8,9
33010 0205	<b>3301 L110B DIMD H60</b>	•	•				9,2
33010 0214	<b>3301 L110TB DIMD H60</b>	•		•			9,2
33010 0207	<b>3301 L110T DIMD H60</b>	•			•		9,2
33010 0005	<b>3301 L160 H60</b>		•				8,9
33010 0007	<b>3301 L160B H60</b>		•				9,2
33010 0016	<b>3301 L160TB H60</b>			•			9,2
33010 0009	<b>3301 L160T H60</b>				•		9,2
33010 0204	<b>3301 L160 DIMD H60</b>	•	•				8,9
33010 0206	<b>3301 L160B DIMD H60</b>	•	•				9,2
33010 0215	<b>3301 L160TB DIMD H60</b>	•		•			9,2
33010 0208	<b>3301 L160T DIMD H60</b>	•			•		9,2

67 | 10.800 | 161 | HME 250

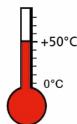
96 | 15.000 | 156 | HIT 250, HME 400



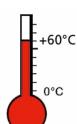
## 3302...

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

2 LED segments



3302...



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

270 | 40.400 | 150 | 2 x HIE 400

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

134 | 21.600 | 161 | HIE 400

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

192 | 30.000 | 156 | HIT 400

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

Article No.	Type	Connected load [W]	Luminous flux [lm] <sup>1)</sup>	Luminous efficacy [lm/W]	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 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	<b>3301 L210 VARIO</b>	77 - 135	12.040 - 20.200	156	HME 250 - HIE 400	9,2
33011 0002	<b>3301 L210B VARIO</b>					
33011 0003	<b>3301 L210TB VARIO</b>					
33011 0004	<b>3301 L210T VARIO</b>					

### 2 LED segments

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

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



### 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

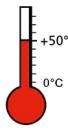
33010 0010	<b>3301 L210 IFS</b>	•			8,9	135	20.200	150	HIE 400
33010 0011	<b>3301 L210B IFS</b>	•			9,2				
33010 0017	<b>3301 L210TB IFS</b>	•			9,2				
33010 0012	<b>3301 L210T IFS</b>			•	9,2				
33010 0209	<b>3301 L210 DIMD IFS</b>	•	•		8,9				
33010 0210	<b>3301 L210B DIMD IFS</b>	•	•		9,2				
33010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

#### 2 LED segments

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

### 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.



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

IP65

### 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

IP65

### 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

IP65

### for use in Swimming pools

#### Applications:

Swimming pools, indoor pools and chlorinated environments

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

#### Design:

Modified for high protection against chlorinated atmospheres.

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



Download Google Play  
Download App Store

LIMAS Air FM



LIMAS Air FM MK



#### Applications:

Areas where luminaires are to be intelligently controlled to lower operating costs and reduce CO<sub>2</sub> emissions.

#### Design:

CASAMBI® radio module with FastConnect quick-connector for controlling DIMD luminaires

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	<b>ABD 3301</b>	cover, safety glass pane clear (1 segment), for 3301..., 3302..., 3305...
33001 9006	<b>ABD 3301 IFS</b>	cover, disc PC clear IFS (1 segment), for 3301..., 3302..., 3305...
33001 9010	<b>ABD 3301 C</b>	cover, PMMA frosted disc for glare limitation (1 segment), for 3301..., 3302..., 3305...
25600 9000	<b>2560</b>	plastic gland M25 x 1,5
25720 9000	<b>2572</b>	plastic plug M25 x 1,5
33001 9004	<b>3301/3302 Y P</b>	1 pair of Y-ropes, (2-point-mounting)
33001 9002	<b>DBF 3301/3302</b>	1 pair of brackets for direct ceiling mounting <sup>1)</sup>
33001 9013	<b>3301/3302 SD</b>	vibration absorbing suspension device <sup>1)</sup>

<sup>1)</sup> Version Sheet Steel painted. Optional available in stainless steel painted.

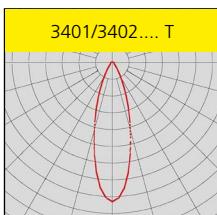
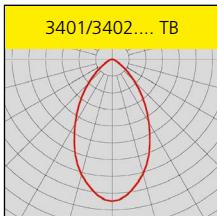
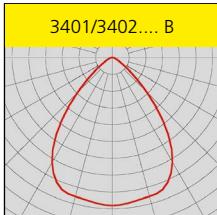
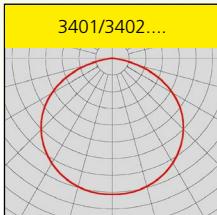
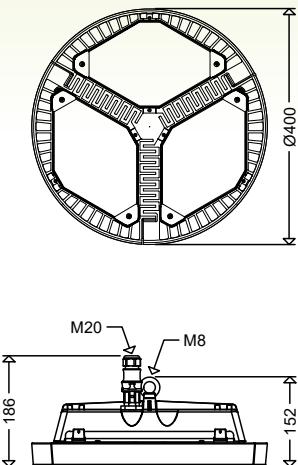
**NEW**

## TRIANO 3<sup>rd</sup> Generation LED High Bay Fitting Series 3401/3402... G3

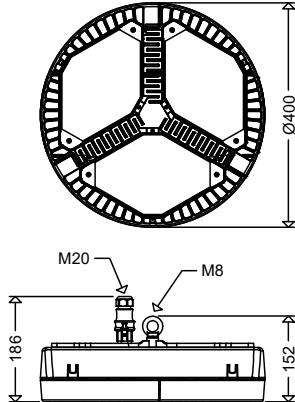
**Available from  
Q2/Q3 2025**



3401... G3



3402... G3



### Applications:

Production areas and warehouses, maintenance and assembly shops, cool storage facilities, walkways in rack areas, hardware stores etc.

### Design:

LED-segment: Robust three-part cast aluminium housing with cooling fins, LED-modules and flat safety glasses (IK09), versions B, TB or T with PC-cover and incorporated optics .

ECG-housing: Cast aluminium

All case parts powder coated in DB 702, smooth, matt.

Light distribution: Without optics wide beam, with optics wide (B), narrow-wide (TB) or narrow beam (T).

Connection: 3-pole (DIMD 5-pole) quick-connector (**FastConnect**), plug mounted to the housing, socket included.

Mounting: 1-point suspension, eyelet included.

### Technical Data:

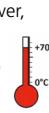
LED module: 4,000 K or 5,000 K, CRI > 80, service life L<sub>80</sub> > 100,000 h at 25 °C ambient temperature, service life L<sub>80</sub> > 80,000h at max. ambient temperature

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

Ambient temperature: -25 °C up to see article tables

### Options:

- according to 'International Featured Standard Food' (IFS), with PC cover, without optics
- for higher ambient temperatures (H70), up to +70 °C
- silicone-free
- for connection to central emergency supply systems (ZB)



- Ready for Lightmanagement System (RFL)
- dimming function via DALI2 interface, compatible with LIMAS Line wired Light Management System (DIMD)
- constant luminous flux function (CL)

### Product highlights:

- long-lasting, corrosion-resistant die-cast aluminium housing
- excellent thermal management through cooling fin structure and direct connection of the LED modules to the housing. Huge heat sink, excellent heat dissipation, excellent convection.
- 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
- high energy cost savings thanks to low connected load and high efficiency
- fast mounting and commissioning due to 1-point suspension and **FastConnect** quick-connector
- convenient retrofitting of LIMAS Air smart lighting control system
- sustainable, control gear and LED-module replaceable by qualified personnel on-site

High Bay  
Fittings

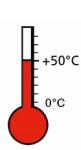
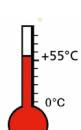
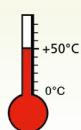
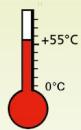
Properties, limitations and details for controlling LED-light fittings:  
See "Technical Supplement"

All data are correct at the time of printing. Actual technical data can be found under [www.schuch.de](http://www.schuch.de).



Article no.	Type	dimmable	Wide beam	Narrow wide beam	Tmax [°C]	Weight [kg] (without packing material)	Connected load [W]	Luminous flux [lm]	Light output [lm/W]	Substitute for *
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The versions with optics (B, TB and T) are suitable for use in food areas (IFS/HACCP).



### 3401... G3

34017 0001	<b>3401 L100 G3</b>	•	55	6,3	61	10.000	164	HME250
34017 0002	<b>3401 L100B G3</b>	•	55	6,3				
34017 0003	<b>3401 L100TB G3</b>		•	55	6,3			
34017 0004	<b>3401 L100 G3 DIMD</b>	•	•	55	6,3			
34017 0005	<b>3401 L100B G3 DIMD</b>	•	•	55	6,3			
34017 0006	<b>3401 L100TB G3 DIMD</b>	•		•	55	6,3		
34017 0007	<b>3401 L200 G3</b>	•	50	6,3				
34017 0008	<b>3401 L200B G3</b>	•	50	6,3				
34017 0009	<b>3401 L200TB G3</b>		•	50	6,3			
34017 0010	<b>3401 L200 G3 DIMD</b>	•	•	50	6,3			
34017 0011	<b>3401 L200B G3 DIMD</b>	•	•	50	6,3			
34017 0012	<b>3401 L200TB G3 DIMD</b>	•		•	50	6,3		
34017 0013	<b>3401 L100 G3 850</b>	•	55	6,3	61	10.000	164	HME250
34017 0014	<b>3401 L100B G3 850</b>	•	55	6,3				
34017 0015	<b>3401 L100TB G3 850</b>		•	55	6,3			
34017 0016	<b>3401 L100 G3 DIMD 850</b>	•	•	55	6,3			
34017 0017	<b>3401 L100B G3 DIMD 850</b>	•	•	55	6,3			
34017 0018	<b>3401 L100TB G3 DIMD 850</b>	•		•	55	6,3		
34017 0019	<b>3401 L200 G3 850</b>	•	50	6,3				
34017 0020	<b>3401 L200B G3 850</b>	•	50	6,3				
34017 0021	<b>3401 L200TB G3 850</b>		•	50	6,3			
34017 0022	<b>3401 L200 G3 DIMD 850</b>	•	•	50	6,3			
34017 0023	<b>3401 L200B G3 DIMD 850</b>	•	•	50	6,3			
34017 0024	<b>3401 L200TB G3 DIMD 850</b>	•		•	50	6,3		

\* The given information is for rough orientation only. In each individual case a lighting calculation is necessary. (VG = ballast)

### LIMAS Air - Smart lighting control

#### Applications:

Areas where luminaires are to be intelligently controlled to lower operating costs and reduce CO<sub>2</sub> emissions.

#### Design:

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

Article No.	Type	
90547 9001	<b>LIMAS Air FM</b>	CASAMBI® radio module with FastConnect quick-connector for controlling DIMD luminaires
90547 9002	<b>LIMAS Air FM MK</b>	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“.



... DIMD with LIMAS Air radio module



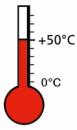
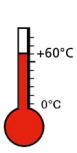
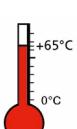
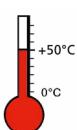
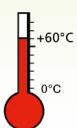
**LIMAS Air FM**



**LIMAS Air FM MK**



The versions with optics (B, TB and T) are suitable for use in food areas (IFS/HACCP).



Article no.	Type	dimmable	Wide beam	Narrow wide beam	Narrow beam	Tmax [°C]	Weight [kg] (without packing material)	Connected load [W]	Luminous flux [lm]	Light output [lm/W]	Substitute for *
34012 0023	<b>3402 L100 G3</b>	•				65	6,5				
34012 0025	<b>3402 L100B G3</b>	•				65	6,5				
34012 0027	<b>3402 L100TB G3</b>		•			65	6,5				
34012 0024	<b>3402 L100 G3 DIMD</b>	•	•			65	6,5				
34012 0026	<b>3402 L100B G3 DIMD</b>	•	•			65	6,5				
34012 0028	<b>3402 L100TB G3 DIMD</b>	•	•	•		65	6,5				
34012 0029	<b>3402 L200 G3</b>	•				60	6,5				
34012 0031	<b>3402 L200B G3</b>	•				60	6,5				
34012 0033	<b>3402 L200TB G3</b>		•			60	6,5				
34012 0035	<b>3402 L200T G3</b>			•		60	6,5				
34012 0030	<b>3402 L200 G3 DIMD</b>	•	•			60	6,5				
34012 0032	<b>3402 L200B G3 DIMD</b>	•	•			60	6,5				
34012 0034	<b>3402 L200TB G3 DIMD</b>	•	•	•		60	6,5				
34012 0036	<b>3402 L200T G3 DIMD</b>	•		•		60	6,5				
34012 0037	<b>3402 L300 G3</b>	•				50	6,7				
34012 0039	<b>3402 L300B G3</b>	•				50	6,7				
34012 0041	<b>3402 L300TB G3</b>		•			50	6,7				
34012 0043	<b>3402 L300T G3</b>			•		50	6,7				
34012 0038	<b>3402 L300 G3 DIMD</b>	•	•			50	6,7				
34012 0040	<b>3402 L300B G3 DIMD</b>	•	•			50	6,7				
34012 0042	<b>3402 L300TB G3 DIMD</b>	•	•	•		50	6,7				
34012 0044	<b>3402 L300T G3 DIMD</b>	•		•		50	6,7				
34012 0001	<b>3402 L100 G3 850</b>	•				65	6,5				
34012 0003	<b>3402 L100B G3 850</b>	•				65	6,5				
34012 0005	<b>3402 L100TB G3 850</b>		•			65	6,5				
34012 0002	<b>3402 L100 G3 DIMD 850</b>	•	•			65	6,5				
34012 0004	<b>3402 L100B G3 DIMD 850</b>	•	•			65	6,5				
34012 0006	<b>3402 L100TB G3 DIMD 850</b>	•	•	•		65	6,5				
34012 0007	<b>3402 L200 G3 850</b>	•				60	6,5				
34012 0009	<b>3402 L200B G3 850</b>	•				60	6,5				
34012 0011	<b>3402 L200TB G3 850</b>		•			60	6,5				
34012 0013	<b>3402 L200T G3 850</b>			•		60	6,5				
34012 0008	<b>3402 L200 G3 DIMD 850</b>	•	•			60	6,5				
34012 0010	<b>3402 L200B G3 DIMD 850</b>	•	•			60	6,5				
34012 0012	<b>3402 L200TB G3 DIMD 850</b>	•	•	•		60	6,5				
34012 0014	<b>3402 L200T G3 DIMD 850</b>	•		•		60	6,5				
34012 0015	<b>3402 L300 G3 850</b>	•				50	6,7				
34012 0017	<b>3402 L300B G3 850</b>	•				50	6,7				
34012 0019	<b>3402 L300TB G3 850</b>		•			50	6,7				
34012 0021	<b>3402 L300T G3 850</b>			•		50	6,7				
34012 0016	<b>3402 L300 G3 DIMD 850</b>	•	•			50	6,7				
34012 0018	<b>3402 L300B G3 DIMD 850</b>	•	•			50	6,7				
34012 0020	<b>3402 L300TB G3 DIMD 850</b>	•	•	•		50	6,7				
34012 0022	<b>3402 L300T G3 DIMD 850</b>	•		•		50	6,7				

\* The given information is for rough orientation only. In each individual case a lighting calculation is necessary. (VG = ballast)

## Accessories / Spare Parts

Article no.	Type										
34011 9001	<b>ABD 3401</b>	cover, clear safety glass pane (1 segment), for 3401..., 3402..., 3403..., 3410..., 3420..., 3430...									
34011 9003	<b>ABD 3401 PRA</b>	cover, clear PMMA disc with outer prisms (1 segment), for 3401..., 3402..., 3403..., 3410..., 3420..., 3430...									
34011 9002	<b>ABD 3401 IFS</b>	cover, clear PC IFS disc (1 segment), for 3401..., 3402..., 3403..., 3410..., 3420..., 3430...									
34011 9004	<b>ABD 3401 B</b>	cover, clear PC disc , wide beam (1 segment), for 3401..., 3402..., 3403..., 3410..., 3420..., 3430...									
34011 9005	<b>ABD 3401 TB</b>	cover, clear PC disc, narrow-beam wide distribution (1 segment), for 3401..., 3402..., 3403..., 3410..., 3420..., 3430...									
34011 9006	<b>ABD 3401 T</b>	cover, clear PC disc, narrow beam (1 segment), for 3401..., 3402..., 3403..., 3410..., 3420..., 3430...									

High Bay  
Fittings



**NEW**

## TRIANO L Generation 3

### LED High Bay Fitting

#### Series 3403... G3

**Available from  
Q2/Q3 2025**

##### Applications:

Production areas and warehouses, maintenance and assembly shops, cool storage facilities, walkways in rack areas, hardware stores etc.

##### Design:

LED-segment: Robust four-part cast aluminium housing with cooling fins, LED-modules and flat safety glasses (IK09), versions **B**, **TB** or **T** with PC-cover and incorporated optics.

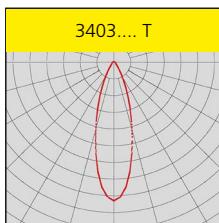
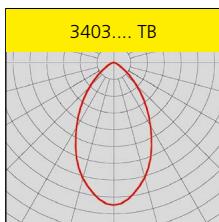
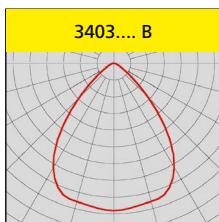
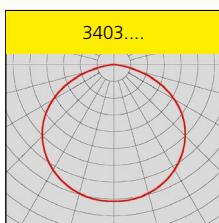
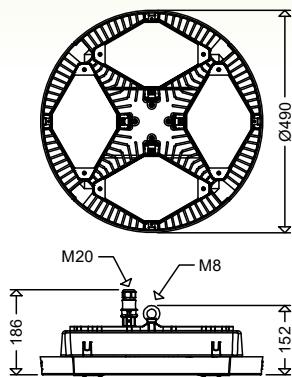
ECG-housing: Cast aluminium

All case parts powder coated in DB 702, smooth, matt.

Light distribution: Without optics wide beam, with optics wide (**B**), narrow-wide (**TB**) or narrow beam (**T**).

Connection: 3-pole (DIMD 5-pole) quick-connector (**FastConnect**), plug mounted to the housing, socket included.

Mounting: 1-point suspension, eyelet included.



##### Technical Data:

LED module: 5,000 K or 4,000 K, CRI > 80, service life  $L_{80} > 100,000$  h at 25 °C ambient temperature, service life  $L_{80} > 80,000$  h at max. ambient temperature ECG: 220-240 V, 50/60 Hz, Surge voltage resistance 4 kV, overload and short circuit protection.

Ambient temperature: -25 °C up to see article tables

##### Options:

- according to 'International Featured Standard Food' (IFS), with PC cover, without optics
- for higher ambient temperatures (H70), up to +70 °C
- silicone-free
- for connection to central emergency supply systems (ZB)
- Ready for Lightmanagement System (RFL)
- 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)

##### Product highlights:

- long-lasting, corrosion-resistant die-cast aluminium housing
- excellent thermal management through cooling fin structure and direct connection of the LED modules to the housing. Huge heat sink, excellent heat dissipation, excellent convection.
- 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
- high energy cost savings thanks to low connected load and high efficiency
- fast mounting and commissioning due to 1-point suspension and **FastConnect** quick-connector
- convenient retrofitting of LIMAS Air smart lighting control system
- sustainable, control gear and LED-module replaceable by qualified personnel on-site



**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](http://www.schuch.de).

The versions with optics (B, TB and T) are suitable for use in food areas (IFS/HACCP).

Article no.	Type	dimmable	Wide beam	Narrow wide beam	Narrow beam	Tmax [°C]	Weight [kg] (without packing material)	Connected load [W]	Luminous flux [lm]	Light output [lm/W]	Substitute for *
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## 3403... G3

34032 0017	<b>3403 L270 G3</b>	•			60	7,5		166	27.000	163	HIE 400 (HS-VG), HIT 400
34032 0019	<b>3403 L270B G3</b>	•			60	7,5					
34032 0021	<b>3403 L270TB G3</b>		•		60	7,5					
34032 0023	<b>3403 L270T G3</b>			•	60	7,5					
34032 0018	<b>3403 L270 G3 DIMD</b>	•	•		60	7,5					
34032 0020	<b>3403 L270B G3 DIMD</b>	•	•		60	7,5					
34032 0022	<b>3403 L270TB G3 DIMD</b>	•		•	60	7,5					
34032 0024	<b>3403 L270T G3 DIMD</b>	•			60	7,5					
34032 0025	<b>3403 L400 G3</b>	•			50	8,0					
34032 0027	<b>3403 L400B G3</b>	•			50	8,0					
34032 0029	<b>3403 L400TB G3</b>		•		50	8,0					
34032 0031	<b>3403 L400T G3</b>			•	50	8,0					
34032 0026	<b>3403 L400 G3 DIMD</b>	•	•		50	8,0					
34032 0028	<b>3403 L400B G3 DIMD</b>	•	•		50	8,0					
34032 0030	<b>3403 L400TB G3 DIMD</b>	•		•	50	8,0					
34032 0032	<b>3403 L400T G3 DIMD</b>	•			50	8,0					
34032 0001	<b>3403 L270 G3 850</b>	•			60	7,5					
34032 0003	<b>3403 L270B G3 850</b>	•			60	7,5					
34032 0005	<b>3403 L270TB G3 850</b>		•		60	7,5					
34032 0007	<b>3403 L270T G3 850</b>			•	60	7,5					
34032 0002	<b>3403 L270 G3 DIMD 850</b>	•	•		60	7,5					
34032 0004	<b>3403 L270B G3 DIMD 850</b>	•	•		60	7,5					
34032 0006	<b>3403 L270TB G3 DIMD 850</b>	•		•	60	7,5					
34032 0008	<b>3403 L270T G3 DIMD 850</b>	•			60	7,5					
34032 0009	<b>3403 L400 G3 850</b>	•			50	8,0					
34032 0011	<b>3403 L400B G3 850</b>	•			50	8,0					
34032 0014	<b>3403 L400TB G3 850</b>		•		50	8,0					
34032 0015	<b>3403 L400T G3 850</b>			•	50	8,0					
34032 0010	<b>3403 L400 G3 DIMD 850</b>	•	•		50	8,0					
34032 0012	<b>3403 L400B G3 DIMD 850</b>	•	•		50	8,0					
34032 0013	<b>3403 L400TB G3 DIMD 850</b>	•		•	50	8,0					
34032 0016	<b>3403 L400T G3 DIMD 850</b>	•			50	8,0					

\* The given information is for rough orientation only. In each individual case a lighting calculation is necessary. (VG = ballast)

High Bay  
Fittings





## LIMAS Air - Smart lighting control

### Applications:

Areas where luminaires are to be intelligently controlled to lower operating costs and reduce CO<sub>2</sub> emissions.

### Design:

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

Article No.	Type	
90547 9001	<b>LIMAS Air FM</b>	CASAMBI® radio module with FastConnect quick-connector for controlling DIMD luminaires
90547 9002	<b>LIMAS Air FM MK</b>	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“.



**LIMAS Air FM**



**LIMAS Air FM MK**



## Accessories / Spare Parts

Article no.	Type	
34011 9001	<b>ABD 3401</b>	cover, clear safety glass pane (1 segment), for 3401..., 3402..., 3403..., 3410..., 3420..., 3430...
34011 9003	<b>ABD 3401 PRA</b>	cover, clear PMMA disc with outer prisms (1 segment), for 3401..., 3402..., 3403..., 3410..., 3420..., 3430...
34011 9002	<b>ABD 3401 IFS</b>	cover, clear PC IFS disc (1 segment), for 3401..., 3402..., 3403..., 3410..., 3420..., 3430...
34011 9004	<b>ABD 3401 B</b>	cover, clear PC disc , wide beam (1 segment), for 3401..., 3402..., 3403..., 3410..., 3420..., 3430...
34011 9005	<b>ABD 3401 TB</b>	cover, clear PC disc, narrow-beam wide distribution (1 segment), for 3401..., 3402..., 3403..., 3410..., 3420..., 3430...
34011 9006	<b>ABD 3401 T</b>	cover, clear PC disc, narrow beam (1 segment), for 3401..., 3402..., 3403..., 3410..., 3420..., 3430...

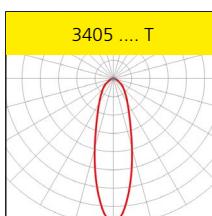
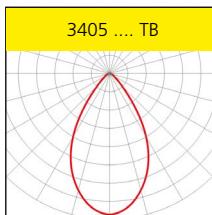
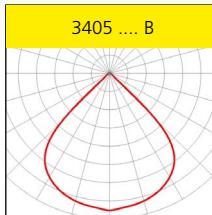
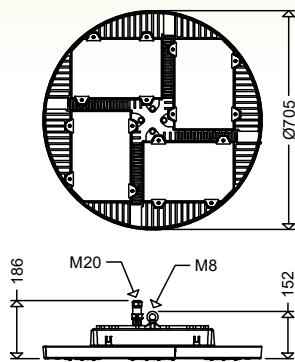
**NEW**

## TRIANO XL Generation 3

### LED High Bay Fitting

#### Series 3405... G3

**Available from  
Q2/Q3 2025**



#### Applications:

Indoor areas with high mounting heights or with a requirement for high illumination levels. E.g. shipyards, hangars, machine-, maintenance- and assembly shops, hardware stores etc..

#### Design:

LED-segments: Robust four-part extruded aluminium housing with cooling fins, LED-modules and flat safety glasses (IK09)  
All case parts powder coated in DB 702 (mica-iron paint, grey).

ECG-housing: Cast aluminium

All case parts powder coated in DB 702,

smooth, matt.

Light distribution: With optics wide (B), narrow-wide (TB) or narrow beam (T).

Connection: 3-pole (DIMD 5-pole) quick-connector (**FastConnect**), plug mounted to the housing, socket included.

Mounting: 1-point suspension, eyelet included.

#### Technical Data:

LED module: 5,000 K or 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: -25 °C up to +50 °C / +60 °C

#### Options:

- 5,000 K; light colour (850), e.g. in combination with TRIANO or TRIANO L high-bay luminaires

- in accordance with 'International Featured Standard Food' (IFS), with PC cover, without optics

- for higher ambient temperatures (H70), up to +70 °C

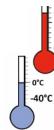
- for lower ambient temperatures (T40), down to -40 °C

- silicone-free
- Ready for Lightmanagement System (RFL)

- 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)



#### Product highlights:

- long-lasting, corrosion-resistant die-cast aluminium housing
- excellent thermal management through cooling fin structure and direct connection of the LED modules to the housing. Huge heat sink, excellent heat dissipation, excellent convection.
- 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
- high energy cost savings thanks to low connected load and high efficiency
- fast mounting and commissioning due to 1-point suspension and **FastConnect** quick-connector
- convenient retrofitting of LIMAS Air smart lighting control system
- sustainable, control gear and LED-module replaceable by qualified personnel on-site

High Bay  
Fittings



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](http://www.schuch.de).

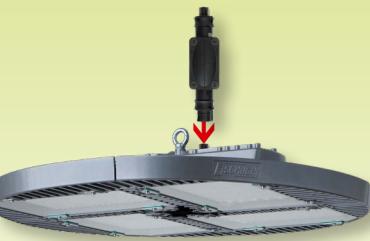
Article no.	Type	dimmable	Wide beam	Narrow wide beam	Narrow beam	Tmax [°C]	Weight [kg] (without packing material)	Connected load [W]	Luminous flux [lm]	Light output [lm/W]	Substitute for *
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## 3405... G3

34052 0003	<b>3405 L320B G3</b>	•			60	15,6		190	32.000	168	HIT 400
34052 0005	<b>3405 L320TB G3</b>		•		60	15,6					
34052 0007	<b>3405 L320T G3</b>			•	60	15,6					
34052 0004	<b>3405 L320B G3 DIMD</b>	•	•		60	15,6					
34052 0006	<b>3405 L320TB G3 DIMD</b>	•	•	•	60	15,6					
34052 0008	<b>3405 L320T G3 DIMD</b>	•		•	60	15,6					
34052 0011	<b>3405 L450B G3</b>		•		60	15,6					
34052 0013	<b>3405 L450TB G3</b>			•	60	15,6					
34052 0015	<b>3405 L450T G3</b>				•	60	15,6				
34052 0012	<b>3405 L450B G3 DIMD</b>	•	•		60	15,6					
34052 0014	<b>3405 L450TB G3 DIMD</b>	•	•	•	60	15,6					
34052 0016	<b>3405 L450T G3 DIMD</b>	•		•	60	15,6					
34052 0019	<b>3405 L600B G3</b>		•		50	15,6					
34052 0021	<b>3405 L600TB G3</b>			•	50	15,6					
34052 0023	<b>3405 L600T G3</b>				•	50	15,6				
34052 0020	<b>3405 L600B G3 DIMD</b>	•	•		50	15,6					
34052 0022	<b>3405 L600TB G3 DIMD</b>	•	•	•	50	15,6					
34052 0024	<b>3405 L600T G3 DIMD</b>	•		•	50	15,6					
34052 0027	<b>3405 L320B G3 850</b>		•		60	15,6					
34052 0029	<b>3405 L320TB G3 850</b>			•	60	15,6					
34052 0031	<b>3405 L320T G3 850</b>				•	60	15,6				
34052 0028	<b>3405 L320B G3 DIMD 850</b>	•	•		60	15,6					
34052 0030	<b>3405 L320TB G3 DIMD 850</b>	•	•	•	60	15,6					
34052 0032	<b>3405 L320T G3 DIMD 850</b>	•		•	60	15,6					
34052 0035	<b>3405 L450B G3 850</b>		•		60	15,6					
34052 0037	<b>3405 L450TB G3 850</b>			•	60	15,6					
34052 0039	<b>3405 L450T G3 850</b>				•	60	15,6				
34052 0036	<b>3405 L450B G3 DIMD 850</b>	•	•		60	15,6					
34052 0038	<b>3405 L450TB G3 DIMD 850</b>	•	•	•	60	15,6					
34052 0040	<b>3405 L450T G3 DIMD 850</b>	•		•	60	15,6					
34052 0043	<b>3405 L600B G3 850</b>		•		50	15,6					
34052 0045	<b>3405 L600TB G3 850</b>			•	50	15,6					
34052 0047	<b>3405 L600T G3 850</b>				•	50	15,6				
34052 0044	<b>3405 L600B G3 850 DIMD</b>	•	•		50	15,6					
34052 0046	<b>3405 L600TB G3 850 DIMD</b>	•	•	•	50	15,6					
34052 0048	<b>3405 L600T G3 850 DIMD</b>	•		•	50	15,6					

\* The given information is for rough orientation only. In each individual case a lighting calculation is necessary. (VG = ballast)





... DIMD with LIMAS Air radio module



LIMAS Air FM



LIMAS Air FM MK



## LIMAS Air - Smart lighting control

### Applications:

Areas where luminaires are to be intelligently controlled to lower operating costs and reduce CO<sub>2</sub> emissions.

### Design:

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

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“.

Article No.	Type	
90547 9001	<b>LIMAS Air FM</b>	CASAMBI® radio module with FastConnect quick-connector for controlling DIMD luminaires
90547 9002	<b>LIMAS Air FM MK</b>	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	
34011 9011	<b>ABD 3405</b>	cover, clear safety glass pane, for 3405...,



**NEW**

## REDONDO

### Rope Supported LED Light Fitting

#### Series 55...



##### Applications:

Residential and service roads, by-roads and main roads etc.

##### Design:

Housing: Die-cast aluminium, powder coated in DB 702 (mica-iron paint, grey). with carrying bracket, inclination adjustment and pressure compensation system.

Glass cover: Flat safety glass, hinged, can be opened without tools via 2 toggle levers, impact resistance IK09.

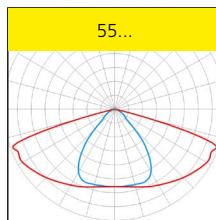
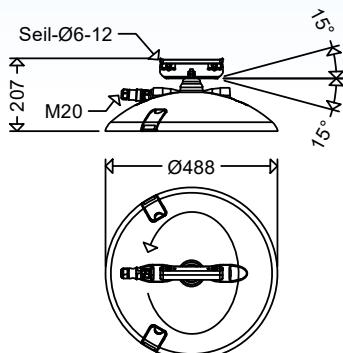
Electrical components: Wired ready for installation, disconnect plug-in connector

to the mains connection terminal, LED module and ECG unit can be replaced without tools.

Light distribution: Symmetrical wide beam.

Connection: Quick connector (**Fast-Connect**), plug mounted to the housing, socket included. Wired ready for connection.

Mounting: Stainless steel. Turnable (all directions) and adjustable by 15°, mountable on ropes of 6 - 12 mm diameter.



##### Electrical design:

LED module: 4,000 K or 3,000 K,  $R_a > 70$ , service life  $L_{90} > 100,000$  h, Zhaga compliant

ECG: 220-240 V, 50-60 Hz, Surge voltage resistance 10 kV, overload and short circuit protection.

##### Options:

- 2,200 K; light colour (722)
- 1,800 K; light colour (518)
- special painting in RAL colours
- protection class I (SKI)
- seawater-resistant version
- dimming function via DALI2 interface, compatible with LIMAS Line wired Light Management System (DIMD)
- power reduction with control phase (LR)
- power reduction without control phase (LA)
- constant luminous flux function (CL)
- additional overvoltage protection
- inrush current limiter
- 3-point supporting bracket

##### Product highlights:

- long-lasting, corrosion resistant die-cast aluminium housing with plain surface.
- integrated pressure compensation system prevents condensation in the interior
- can be opened without tools
- fast mains connection thanks to integrated FastConnect quick plug-in connection
- tool-free ECG replacement
- tool-free LED module replacement
- universal usage on cross- and longitudinal ropes, inclined ropes or 3-point rope supports (see accessories) due to all-side rotatable and up to 15° inclinable stainless steel bracket
- homogeneous illumination due to the Multi-Layer-Technology
- eco-friendly, no light emission into the upper half-space,  $ULOR=0$
- all versions dimmable to 10 % with color temperature up to max. 3,000 K fulfill the Dark Sky requirements
- 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

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](http://www.schuch.de).

All light fittings also available with connected cable (H07RN-F or NYM) in the required length.

Article no.	Type	Connected load W]	Luminous flux [lm]	Luminous efficacy [lm/W]	Weight [kg] (without packing material)
55...					



## 55...

### colour temperature 4.000K (light colour 740)

55000 0001	<b>55 1601 FC</b>	17	3.210	189	7,1
55000 0002	<b>55 1602 FC</b>	25	4.480	179	7,1
55000 0003	<b>55 1603 FC</b>	35	6.070	173	7,1
55000 0004	<b>55 3201 FC</b>	34	6.420	189	7,2
55000 0005	<b>55 3202 FC</b>	50	8.950	179	7,2
55000 0006	<b>55 3203 FC</b>	70	12.080	173	7,2
55000 0007	<b>55 4801 FC</b>	52	9.060	174	7,4
55000 0008	<b>55 4802 FC</b>	75	12.550	167	7,4
55000 0009	<b>55 4803 FC</b>	106	16.730	158	7,4
55000 0010	<b>55 6401 FC</b>	69	12.580	182	7,5
55000 0011	<b>55 6402 FC</b>	99	17.520	177	7,5

### colour temperature 3.000K (light colour 730)

55000 0012	<b>55 1601 730 FC</b>	17	3.050	179	7,1
55000 0013	<b>55 1602 730 FC</b>	25	4.260	170	7,1
55000 0014	<b>55 1603 730 FC</b>	35	5.770	165	7,1
55000 0015	<b>55 3201 730 FC</b>	34	6.100	179	7,2
55000 0016	<b>55 3202 730 FC</b>	50	8.500	170	7,2
55000 0017	<b>55 3203 730 FC</b>	70	11.480	164	7,2
55000 0018	<b>55 4801 730 FC</b>	52	8.610	166	7,4
55000 0019	<b>55 4802 730 FC</b>	75	11.920	159	7,4
55000 0020	<b>55 4803 730 FC</b>	106	15.890	150	7,4
55000 0021	<b>55 6401 730 FC</b>	69	11.950	173	7,5
55000 0022	<b>55 6402 730 FC</b>	99	16.640	168	7,5



All light fittings also available with connected cable (H07RN-F or NYM) in the required length.

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



### Design:

Same as type 55... but: With a switch for variable adjustment of the luminous flux in the luminaire. The connected load will change depending on the setting of the luminous flux. In the table you will find examples of settings with reference to common conventional versions. Intermediate values are also possible. Setting table on request.

### Product highlights of the VARIO version:

- simple, fast, tool-free setting of the luminous flux on site, by means of integrated switch, can be changed at any time
- reduction in the variety of types



### colour temperature 4.000K (light colour 740)

55002 0001	<b>55 L50 VARIO FC</b>	9 - 35	1.470 - 6.070	190	HST 35 - 2 x HST 70	7,1
55002 0003	<b>55 L100 VARIO FC</b>	16 - 70	2.950 - 12.080	191	HST 50 - HSE 150	7,2
55002 0005	<b>55 L150 VARIO FC</b>	24 - 106	4.190 - 16.730	175	2 x HME 80 - 2 x HME 250	7,4

### colour temperature 3.000K (light colour 730)

55002 0002	<b>55 L50 VARIO 730 FC</b>	9 - 35	1.400 - 5.770	181	HST 35 - 2 x HST 70	7,1
55002 0004	<b>55 L100 VARIO 730 FC</b>	16 - 70	2.800 - 11.480	182	HST 50 - HSE 150	7,2
55002 0006	<b>55 L150 VARIO 730 FC</b>	24 - 106	3.980 - 15.890	166	2 x HME 80 - 2 x HME 250	7,4

## 55... NFC



### Design:

Same as type 55... but: Setting the luminous flux via Smartphone-App (see technical Supplement). Link to the App: Adjustments via Smartphone-App (see technical Supplement). Link to the App: See instruction label on the light fitting. The connected load will change depending on the setting of the luminous flux.

### Product highlights of the NFC version:

- simple, fast, tool-free adjustment of the luminous flux on site via app (iOS or Android), subsequently changeable at any time.
- Luminaire can be parameterized voltage-free before mounting
- reduction of type variety



### colour temperature 4.000K (light colour 740)

55004 0001	<b>55 L50 NFC FC</b>	9 - 35	1.470 - 6.070	190	HST 35 - 2 x HST 70	7,1
55004 0003	<b>55 L100 NFC FC</b>	16 - 70	2.950 - 12.080	191	HST 50 - HSE 150	7,2
55004 0005	<b>55 L150 NFC FC</b>	24 - 106	4.190 - 16.730	175	2 x HME 80 - 2 x HME 250	7,4

### colour temperature 3.000K (light colour 730)

55004 0002	<b>55 L50 NFC 730 FC</b>	9 - 35	1.400 - 5.770	181	HST 35 - 2 x HST 70	7,1
55004 0004	<b>55 L100 NFC 730 FC</b>	16 - 70	2.800 - 11.480	182	HST 50 - HSE 150	7,2
55004 0006	<b>55 L150 NFC 730 FC</b>	24 - 106	3.980 - 15.890	166	2 x HME 80 - 2 x HME 250	7,4

Factory setting L50: 18 W; replaces approx. HME 125, HST 70      Factory setting L150: 106 W; replaces approx. 2 x HME 250  
Factory setting L100: 54 W; replaces approx. HME 250

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

1) possible setting range

All light fittings also available with connected cable (H07RN-F or NYM) in the required length.

Article no.	Type	Connected load [W]	Luminous flux [lm]	Luminous efficacy [lm/W]	Weight [kg] (without packing material)
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## Design RFL - Ready for Light Management System

The luminaires are prepared for the subsequent use of a light management system. An integrated socket allows retrofitting of light management components without tools.



Exclusively D4i control gear is being used in RFL luminaires from SCHUCH.

All D4i Zhaga Book 18 certified controllers and D4i Zhaga Book 18 certified sensors available on the market can be used in combination with RFL luminaires from SCHUCH. Controllers and sensors which do not comply with the D4i standard can limit the functionality of the luminaires and components. Moreover, in individual cases, such non-certified components may cause damage to both the luminaires and the components.

### Product highlights of the RFL version:

- standardized Zhaga compliant sockets
- subsequent use of a lighting management system possible at any time
- tool-free, quick assembly of the Light Management System components



## 55... RFLO



with a socket on the top side of the luminaire

colour temperature 4.000K (light colour 740)

55001 0001	<b>55 1603 FC RFLO</b>	35	6.070	173	7,1
55001 0003	<b>55 3203 FC RFLO</b>	70	12.080	173	7,2
55001 0005	<b>55 4803 FC RFLO</b>	106	16.730	158	7,4

colour temperature 3.000K (light colour 730)

55001 0002	<b>55 1603 730 FC RFLO</b>	35	5.770	165	7,1
55001 0004	<b>55 3203 730 FC RFLO</b>	70	11.480	164	7,2
55001 0006	<b>55 4803 730 FC RFLO</b>	106	15.890	150	7,4

## RFL LIMAS HUB3 G2 / RFL LIMAS HUB3 G2 GPS SIM



## RFL DS20 HUB 20lux ON/OFF



## LIMAS USB-Dongle



## System components

Article No.	Type	
90546 9010	<b>RFL LIMAS HUB3 G2 GPS SIM</b>	radio control with GPS antenna and photocell (twilight control) with integrated SIM card
90546 9014	<b>RFL LIMAS HUB3 G2</b>	radio control with photocell (twilight control)
90546 9000	<b>RFL DS20 HUB 20lux ON/OFF</b>	twilight switch for autonomous control of RFLO luminaires

Other sensors, e.g. environmental sensors (fine dust, CO<sub>2</sub>, weather station etc.) on request.

## Control components

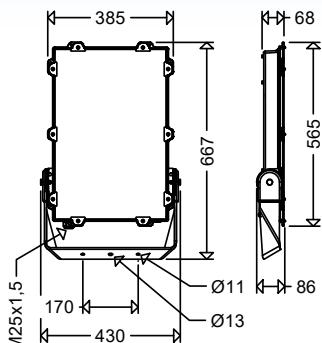
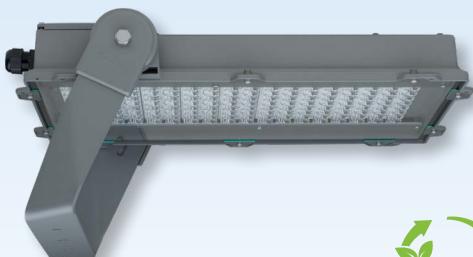
Article No.	Type	
90545 0001	<b>LIMAS Dongle USB</b>	enables programming/setup of LIMAS components on site using software and Windows operating system
90546 9010	<b>RFL LIMAS HUB3 G2 GPS SIM</b>	control element with photocell/ twilight switch, GPS antenna and SIM card

## Accessories / Spare Parts

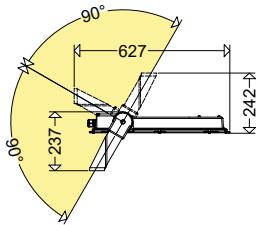
Article no.	Type	
55010 0001	<b>ABD 55</b>	cover, pane safety glass clear, for 55...

## NEW AREALO 2

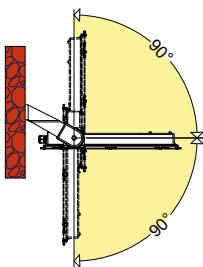
### LED Large-Area Spotlight Series 7950...



Swivel range



Standard Mounting



**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](http://www.schuch.de).

#### Applications:

Large areas such as car parks, storage areas, loading areas, loading stations, container terminals, harbour facilities, apron lighting at airports, open-cast mines, sports facilities, etc.

#### Design:

**Housing:** Die-cast aluminium, 1-part, powder-coated DB 702 (mica-iron paint, grey) with LED module, optics, ECG, cable entry and pressure compensation system.

**Glass:** Flat safety glass pane, resistant to temperature changes, impact resistant IK09, silicone gasket.

**Light distribution:** Extremely asymmetrical beam.

**Connection:** Connection compartment accessible from outside, terminal up to max. 2.5 mm<sup>2</sup>.

**Cable entry:** 1 cable entry M25 x 1.5 (1 cable gland).

**Mounting:** Mounting bracket can be swivelled through 180° in 5° steps, with 3 holes for wall or ceiling mounting. Separate accessories are required for pole mounting (see accessories/spare parts).

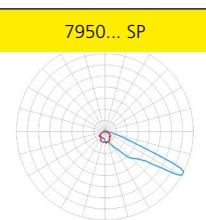
#### Electrical design:

**LED module:** 4,000 K or 3,000 K, R<sub>a</sub> > 70, service life L<sub>90</sub> > 100,000 h, Zhaga compliant

**ECG:** 220-240 V, 50-60 Hz, Surge voltage resistance 10kV, overload and short circuit protection.

#### Options:

- 2,200 K; light colour (722)
- 1,800 K; light colour (518)
- asymmetrical beam (A), plane surface floodlight-optics
- special painting in RAL colours
- seawater-resistant version
- vibration-resistant design
- bird deterrence
- dimming function via DALI2 interface (DIMD)
- power reduction with control phase (LR)
- constant luminous flux function (CL)
- compatible with LIMAS Line and LIMAS Air Light Management System



#### Product highlights:

- durable, corrosion-resistant die-cast aluminium housing
- low total weight, low mast load
- excellent thermal management, long service life
- quick electrical connection due to outlaying electrical connection box
- homogeneous illumination due to the Multi-Layer-Technology
- eco-friendly, no light emission into the upper half-space, ULOR=0
- all versions dimmable to 10 % with color temperature up to max. 3,000 K fulfill the Dark Sky requirements
- 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



All light fittings also available with connected cable (H07RN-F or NYM) in the required length.

Article No.	Type	Connected load [W]	Luminous flux [lm]	Luminous efficacy [lm/W]	Weight [kg] (without packing material)
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## 7950... SP OP



Wind load area A = 0,15m<sup>2</sup>

### colour temperature 4.000K (light colour 740)

79500 0001	<b>7950 14401SP OP</b>	144	26.500	184	10,7
79500 0003	<b>7950 14402SP OP</b>	209	36.800	176	10,7
79500 0005	<b>7950 14403SP OP</b>	298	49.300	165	11,0
79500 0007	<b>7950 14404SP OP</b>	432	66.500	154	11,0
79500 0002	<b>7950 14401SP DIMD OP</b>	144	26.500	184	10,7
79500 0004	<b>7950 14402SP DIMD OP</b>	209	36.800	176	10,7
79500 0006	<b>7950 14403SP DIMD OP</b>	298	49.300	165	11,0
79500 0008	<b>7950 14404SP DIMD OP</b>	432	66.500	154	11,0

### colour temperature 3.000K (light colour 730)

79500 0009	<b>7950 14401SP 730 OP</b>	144	25.200	175	10,7
79500 0011	<b>7950 14402SP 730 OP</b>	209	35.000	167	10,7
79500 0013	<b>7950 14403SP 730 OP</b>	298	46.800	157	11,0
79500 0015	<b>7950 14404SP 730 OP</b>	432	63.200	146	11,0
79500 0010	<b>7950 14401SP DIMD 730 OP</b>	144	25.200	175	10,7
79500 0012	<b>7950 14402SP DIMD 730 OP</b>	209	35.000	167	10,7
79500 0014	<b>7950 14403SP DIMD 730 OP</b>	298	46.800	157	11,0
79500 0016	<b>7950 14404SP DIMD 730 OP</b>	432	63.200	146	11,0

## 7950... SP OV



**Version:** ... but without ballasts (OV), internal pole mounting or external mounting unit require, please order separately.

### colour temperature 4.000K (light colour 740)

79502 0200	<b>7950 14401SP OV</b>	144	26.500	184	10,3
79502 0201	<b>7950 14402SP OV</b>	209	36.800	176	10,3
79502 0202	<b>7950 14403SP OV</b>	298	49.300	165	10,3
79502 0203	<b>7950 14404SP OV</b>	432	66.500	154	10,3

### colour temperature 3.000K (light colour 730)

79502 0204	<b>7950 14401SP 730 OV</b>	144	25.200	175	10,3
79502 0205	<b>7950 14402SP 730 OV</b>	209	35.000	167	10,3
79502 0206	<b>7950 14403SP 730 OV</b>	298	46.800	157	10,3
79502 0207	<b>7950 14404SP 730 OV</b>	432	63.200	146	10,3

## Design RFL - Ready for Light Management System

The luminaires are prepared for the subsequent use of a Light Management System. An integrated socket allows retrofitting of light management components without tools.



Exclusively D4i control gear is being used in RFL luminaires from SCHUCH. All D4i Zhaga Book 18 certified controllers and D4i Zhaga Book 18 certified sensors available on the market can be used in combination with RFL luminaires from SCHUCH. Controllers and sensors which do not comply with the D4i standard can limit the functionality of the luminaires and components. Moreover, in individual cases, such non-certified components may cause damage to both the luminaires and the components.

### Product highlights of the RFL version:

- standardized Zhaga compliant sockets
- subsequent use of a lighting management system possible at any time
- tool-free, quick assembly of the Light Management System components



### colour temperature 4.000K (light colour 740)

79501 0001	<b>7950 14404SP OP RFLO</b>	432	66.500	154	11,0
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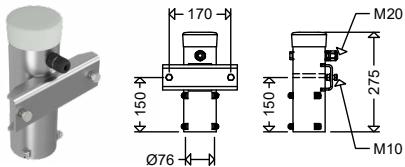
### colour temperature 3.000K (light colour 730)

79501 0002	<b>7950 14404SP 730 OP RFLO</b>	432	63.200	146	11,0
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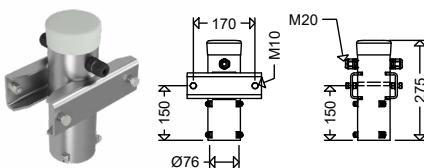
You can find planning examples for sports field lighting in our outdoor luminaires catalogue.



**Single mounting: MAU 1 76/170 M10**



**Double mounting: MAU 2 76/170 M10**



All pole top brackets made of galvanised steel. Painting in any RAL colour for additional charge.

## Accessories / Spare Parts

Article no.	Type	
79510 0001	<b>ABD 7950</b>	cover, pane safety glass clear, for 7950...
75739 9001	<b>MAU 1 76/170 M10</b>	Pole top for single mounting, Ø 76 mm, galvanized steel
75739 9002	<b>MAU 2 76/170 M10</b>	Pole top for double mounting, Ø 76 mm, galvanized steel
90117 9000	<b>2537</b>	plastic cable gland M25 x 1,5 black
79511 0003	<b>SD 7950 ST</b>	vibration absorbing suspension device for series 7950, galvanized steel
79511 0001	<b>TR 1200/108/170/5 M10/12</b>	crossbar 1200mm with bracket



## PLANNING EXAMPLES FOR SPORTS FIELD LIGHTING

The basis for planning is the DIN EN 12193 regulation. It defines clear standards for illuminance, uniformity, glare limitation and color rendering for different lighting classes.

### Lighting classes

<b>Class I</b>	High-performance competitions, international and national competitions with high visual requirements, high-performance training
<b>Class II</b>	Intermediate level competitions, regional competitions with medium visual requirements, performance training
<b>Class III</b>	Simple competitions, local competitions, school sports, general leisure sports, general training

### Requirements

Lighting class	average horizontal illuminance (Em)	Uniformity (Uo)
I	$\geq 500 \text{ lx}$	$\geq 0.7$
II	$\geq 200 \text{ lx}$	$\geq 0.6$
III	$\geq 75 \text{ lx}$	$\geq 0.5$

## INTELLIGENT LIGHT CONTROL

Simply switching the floodlights of a sports facility on and off is neither efficient nor cost-saving and environmentally friendly. When converting to LED technology, the question of intelligent lighting control therefore arises.

If one then takes into account the subsidies from the federal government within the framework of the municipal guidelines as well as the state sports associations and possibly the respective federal state, which can currently

amount to up to 80 % cumulatively at peak times, the decision should not be difficult.

### Dimming

#### The introduction to light control

The simplest solution is to dim the floodlights via DALI. Since the maximum illuminance is usually only required for matches and competitions, energy can be saved to a considerable extent by continuously dimming or switching on preset

lighting levels during training. All that is required for this is an AREALO in DIMD version.



## Smart lighting control with LIMAS Air

With the LIMAS Air Light Management System, you can conveniently control your floodlighting system via radio, without additional wiring, and save a maximum of energy costs at the same time.

The system is configured and controlled via a free app (Android or iOS) using a smartphone or tablet. Neither an internet connection nor a gateway is required for this.

The luminous flux of each individual luminaire/mast unit can be controlled separately. In conjunction with push-buttons, the pre-programmed scenes can be called up easily and conveniently, for example match and competition mode, training, half-field lighting or goalkeeper training, etc.

Please contact us. We will be happy to show you the possibilities LIMAS Air offers and support you in planning, projecting and configuring your system.



## Control components

Art.-Nr.	Type	
78512 0001	<b>7850 1VBOX RFL Lite TRA</b>	Distribution box 1-fold for RFL LIMAS Air HUB TRI for AREALO 7850 12804SP DIMD as truss structure. Additionally RFL LIMAS Air HUB (90546 9013) is required (not included in delivery). 
78512 0002	<b>7850 2VBOX RFL Lite TRA</b>	Distributor box 2-fold for RFL LIMAS Air HUB TRI for AREALO 7850 25604SP DIMD as truss structure. Additionally RFL LIMAS Air HUB (90546 9013) is required (not included in delivery) 
78512 0003	<b>7850 3VBOX RFL Lite TRA</b>	Distribution box 3-fold for RFL LIMAS Air HUB TRI for AREALO 7850 38404SP DIMD as truss structure. Additionally RFL LIMAS Air HUB (90546 9013) is required (not included in delivery) 
78512 0010	<b>7850 VBOX RFL Lite TRA</b>	Distributor box for RFL LIMAS Air HUB TRI for AREALO 7850 12804SP OV, 7850 25604SP OV, 7850 38404SP OV as truss structure. Additionally RFL LIMAS Air HUB (90546 9013) is required (not included in delivery) 
10183 0002	<b>LIMAS Air SENSOBOX</b>	Repeater/amplifier box for LIMAS Air light management systems. An RFL LIMAS Air HUB radio control unit (90546 9013) is also required (not included). 
90546 9013	<b>RFL LIMAS Air HUB TRI</b>	Light management controller (2.4 GHz mesh network) with radio antenna and RFL base. 
90547 9009	<b>LIMAS Air TAST INTER UP max 4 KONT</b>	Push-button interface for connecting up to 4 analogue push-button contacts, mounting in flush-mounted box/branch box. 
90547 9011	<b>LIMAS Air TAST UP max 4 KONT</b>	Battery-free quadruple wireless pushbutton, pressing the pushbutton generates energy to supply the pushbutton electronics. 

**With passion for  
excellent lighting – since 1895!**



**Adolf Schuch GmbH**

**Lichttechnische Spezialfabrik**

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