


**130** JAHRE  
 **SCHUCH**

**NEW PRODUCTS**  
**LED Light Fittings**

**2025/26**

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





# LIMAS

## Light Management Systems for industrial areas



# LIMAS Air GUARD

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

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.

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-

onitoring 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:

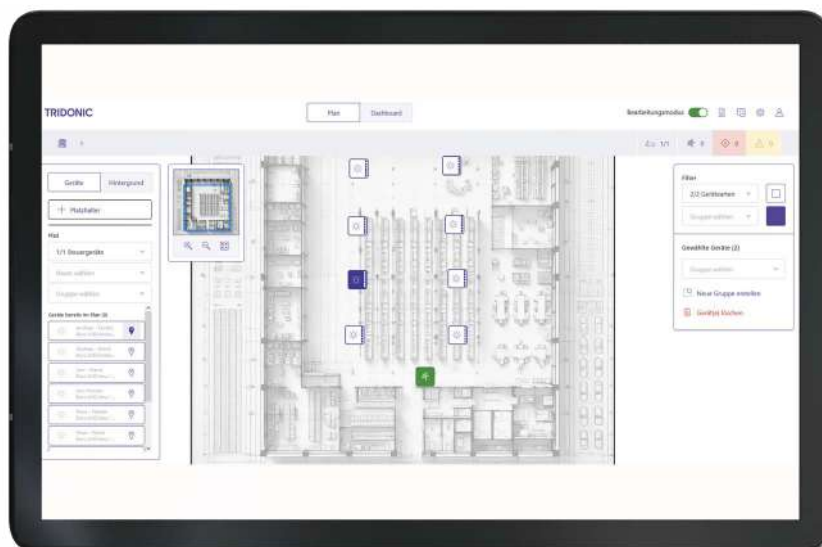
- Radio networked, no additional wiring required
- Quick installation
- Focus on luminaire monitoring

## 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



## LED-Steep roof light fitting for Ex-Zone 2/22 Series nD822...



### Applications:

Hazardous areas of Zones 2 (gas) and 22 (dust), e.g. cleanrooms, paint shops and spray booths.

### Design:

**Housing:** Sheet steel, powder coated in light grey (RAL 7035), silicone foam gasket.

**Glass cover:** Impact resistant safety glass pane, frameless / hinged.

**Central locking system:** Operated by a 5 mm allen key, internal hinges on the opposite side.

**Reflector:** Hinged; white painted sheet steel; detachable, carrying LED-modules and glare limitation modules.

**Connection:** 3 poles up to 2.5 mm<sup>2</sup>.

**Cable entries:** 3 entries M25 x 1.5, (2 glands - one of them is plugged)

**Standard:** Facing downwards or forwards.

**Mechanical installation:**

Mounting accessories see spare parts/ accessories.

### Technical Data:

**LED:** Line modules appr. 5,000 K, CRI > 80, service life L<sub>80</sub> > 100,000 h at max. ambient temperature, L<sub>90</sub> > 75,000 h at 25 °C ambient temperature

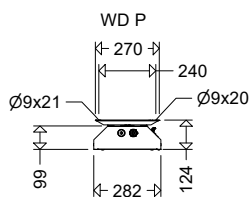
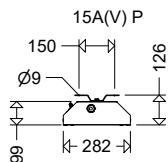
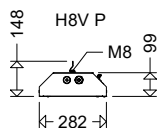
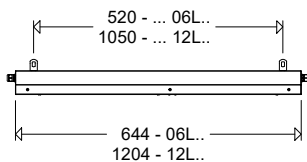
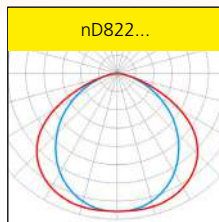
**ECG:** 220-240 V AC/DC, 0 or 50/60 Hz, overvoltage, overload and short circuit protection

### Options:

- 3,000 K; light colour (830)
- through-wiring (DV)
- stainless steel version (E.), painted
- for installation in thermally insulated ceilings in accordance with EN 60598
- for connection to central emergency supply systems (ZB)
- for connection to central emergency supply systems with integrated monitoring module

### Note:

This light fitting is not suitable for application in areas with permanent high humidity in combination with only short periods of operation, such as sewage or stormwater retention tanks or water treatment plants.



### Looping the cable on one side:

All light fittings of series nD822... have got 2 cable entries on one small side of the housing for cable looping instead of the through-wiring system. (3-pole looping standard, 5-pole looping at additional cost)

### Product highlights:

- extremely flat and robust design
- perfect protection of the LED from mechanical or electrostatic damages with at the same time homogeneous illumination with glare limitation modules, no individual light points visible, comfortable perception of light, excellent glare limitation
- high colour rendering index CRI > 80, according to the workplace guide lines suitable for nearly all plant locations
- comfortable central locking system with internal hinges
- separate, frame for recessed installation or a swivel arm mounting system can easily be installed at a later stage, (frame for recessed installation not suitable for stainless steel version!)
- sustainable, control gear and reflector with LED-modules replaceable by qualified personnel on-site
- suitability for paint booths LABS-tested according to VDMA 24364-C2-L



Article no.	Type	Connected load [W]	Luminous flux [lm]	Luminous efficacy [lm/W]	Ta max [°C]	Substitute for *	Weight [kg] (without packing material)
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### nD822...



II 3 G Ex ec IIC T4 Gc

II 3 D Ex tc IIIC T80°C Dc

IP65



**Ignition protection:** ec

**Marking:**

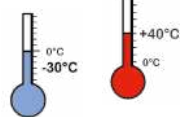
II 3 G Ex ec IIC T4 Gc (Zone 2)

II 3 D Ex tc IIIC T80°C Dc (Zone 22)

**Rated voltage:** 220-240 V AC/DC, 0 or 50/60 Hz.

**Permissible ambient temperature:**

-30 °C up to +40 °C



82200 0001	<b>nD822 06L22</b>	15	2.100	140	40	2 x 18W	7,6
82200 0002	<b>nD822 06L42</b>	28	4.110	147	40	2 x 36W	7,9
82200 0003	<b>nD822 06L60</b>	40	5.600	140	40	2 x 58W	7,9
82200 0050	<b>nD822 12L42</b>	28	4.260	152	40	2 x 36W	13,5
82200 0051	<b>nD822 12L60</b>	40	5.900	148	40	2 x 58W	13,5
82200 0052	<b>nD822 12L85</b>	54	8.350	155	40	> 2 x 58W	14,1
82200 0053	<b>nD822 12L120</b>	79	11.470	145	40	>3 x 58W	14,1

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

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

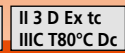
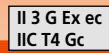
See "Technical Supplement"

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	Connected load [W]	Luminous flux [lm]	Luminous efficacy [lm/W]	Ta max [°C]	Substitute for *	Weight [kg] (without packing material)
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**NEW**

## nD822... DIMD



### dimnable via DALI interface

**Design:**

Same as standard version, but with DALI2-compatible ECG and 2 additional clamping points, marked with DA. Compatible with LIMAS Line BASIC/PRO Light Management System.

**Note:**

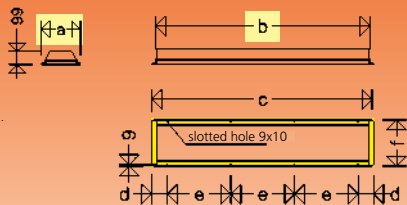
The conducting wires to the control input must be mains voltage stable and can be integrated in the connection cable.

82200 0007	<b>nD822 06L22 DIMD</b>	15	2.100	140	40	2 x 18W	7,6
82200 0008	<b>nD822 06L42 DIMD</b>	28	4.110	147	40	2 x 36W	7,9
82200 0009	<b>nD822 06L60 DIMD</b>	40	5.600	140	40	2 x 58W	7,9
82200 0061	<b>nD822 12L42 DIMD</b>	28	4.260	152	40	2 x 36W	13,5
82200 0058	<b>nD822 12L60 DIMD</b>	40	5.900	148	40	2 x 58W	13,5
82200 0054	<b>nD822 12L85 DIMD</b>	54	8.350	155	40	> 2 x 58W	14,1
82200 0055	<b>nD822 12L120 DIMD</b>	79	11.470	145	40	>3 x 58W	14,1

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

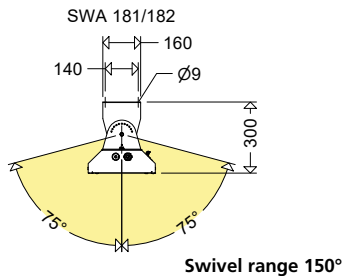
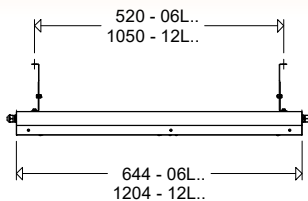
Explosion protected  
Light Fittings

## Installation dimensions



Type	a	b	c	d	e	f
EB 82. 06L	302	660	710	55	300	348
EB 82. 12L	302	1224	1270	125	340	348

**Attention:** When planning the opening for recess installation please allow additional clearance for the cable glands.



## Frame for Recessed Installation

retrofit possible!

Light fittings of series nD822... can be equipped (also retrofitted, except for stainless steel versions) with an all-round angle frame for ceiling and wall installation.

Mounting by means of M5 bolts to the long sides of the housing (see drawing).

Article No.	Type	
18091 0020	EB 82. 06L	frame for narrow housing, e821 06L, nD822 06L
18091 0021	EB 82. 12L	frame for narrow housing, e821 12L, nD822 12L

## Swivel Arm Mounting System

retrofit possible!

Light fittings of series nD822... can be equipped with a swivel arm mounting system at any time. The swivel arms are fixed to the suspen-

sion points at the upper side of the housing. Swivel range:  $\pm 75^\circ$  (see dimensions in diagram).

Article No.	Type	
18092 0001	SWABF 181/182 P	for all wattages consisting of: 2 swivel arms with bolts M8



### Mounting material

Suspension brackets H8V P



Ceiling brackets 15A P



Wall/ceiling angles WD 45 P



Further accessories as well as carrier rail systems and through-wiring systems are available.

## Accessories / Spare Parts

Article No.	Type	
<b>Spare glasses</b>		
82101 9001	ABD 821 06	cover, spare safety glass clear, for 185 06 ..., e821 06 ..., nD822 06 ...
82101 9002	ABD 821 12	cover, spare safety glass clear, for 185 12 ..., e821 12 ..., nD822 12 ...
<b>Cable entries/cable glands</b>		
90117 9006	2537 G	ex-protected gland of size M25 x 1,5 with locknut
90119 9001	2539 G	ex-protected gland of size M25 x 1,5 with locknut and plug
90118 9006	2538 G	ex-protected plug of size M25 x 1,5 with locknut
<b>Mounting material</b>		
90001 0002	H8V P	2 suspension eyes, stainless steel
90000 0002	DS 15A P	2 ceiling brackets, hot galvanized steel
90032 0002	DS 15AV P	2 ceiling brackets, stainless steel
26000 0011	WDW P	2 wall/ceiling angle, painted steel
26000 0005	WDW 45 P	2 wall/ceiling angle 45°, painted steel



# 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 deliver.

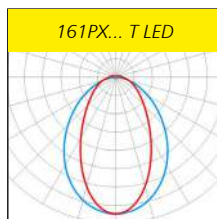
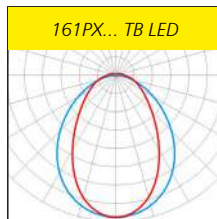
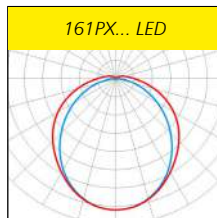
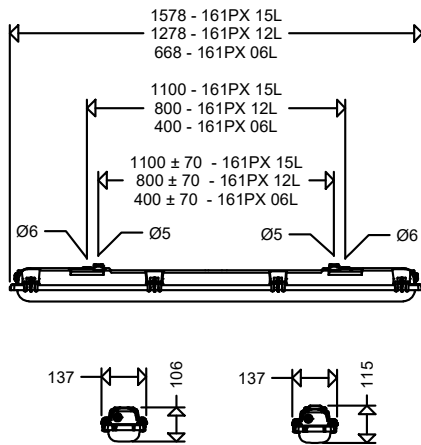
### VARIO versions with variable setting of the luminous flux

#### 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  $L_{90}$  > 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, 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  $R_a > 90$
- 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
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## 161PX... / 161PX... VARIO



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.



Dustproof/Waterproof Light Fittings

## 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.

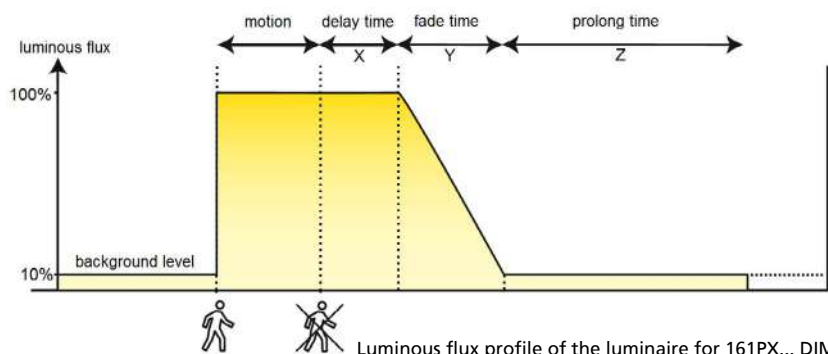
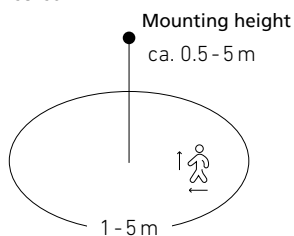
**Setting options for SENS luminaires:** Via potentiometer on the sensor or optionally via IR remote control (article number 90295 9000):

- 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

### Detection range of sensor



Luminous flux profile of the luminaire for 161PX... DIMC

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	161PX 12L22 DIMC	1	15	2.380	159	40	1 x 36W	2,8
16130 0025	161PX 12L42 DIMC	1	27	4.220	156	40	2 x 36W	2,8
16130 0027	161PX 12L60 DIMC	1	39	5.900	151	40	2 x 58W	2,8
16130 0029	161PX 12L120 DIMC	1	77	11.470	149	35	2 x 80 bzw. 3 x 58W	3,1
16130 0023	161PX 15L34 DIMC	1	21	3.430	163	40	1 x 58W	3,4
16130 0026	161PX 15L60 DIMC	1	39	6.130	157	40	2 x 58W	3,4
16130 0028	161PX 15L75 DIMC	1	49	7.410	151	40	> 2 x 58W	3,4
16130 0030	161PX 15L150 DIMC	1	93	14.250	153	35	4 x 58W	3,7
16130 0130	161PX 15L200 DIMC	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	161PX 12L22 DIMC-Z30	1	15	2.380	159	40	1 x 36W	2,8
16130 0035	161PX 12L42 DIMC-Z30	1	27	4.220	156	40	2 x 36W	2,8
16130 0037	161PX 12L60 DIMC-Z30	1	39	5.900	151	40	2 x 58W	2,8
16130 0039	161PX 12L120 DIMC-Z30	1	77	11.470	149	35	2 x 80 bzw. 3 x 58W	3,1
16130 0033	161PX 15L34 DIMC-Z30	1	21	3.430	163	40	1 x 58W	3,4
16130 0036	161PX 15L60 DIMC-Z30	1	39	6.130	157	40	2 x 58W	3,4
16130 0038	161PX 15L75 DIMC-Z30	1	49	7.410	151	40	> 2 x 58W	3,4
16130 0040	161PX 15L150 DIMC-Z30	1	93	14.250	153	35	4 x 58W	3,7
16130 0131	161PX 15L200 DIMC-Z30	1	122	19.400	159	35	6 x 58W	4,2

Dustproof/Waterproof Light Fittings

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

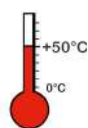
## 161PX... H50



**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

## 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
			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	

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.

### 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).



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 0173	<b>161PX 12L120TB</b>	1	77	11.470	149	35	2 x 80 bzw. 3 x 58W	3,5
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

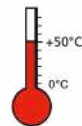
SCHUCH Light Fittings designed for food and beverage industry applications are in accordance with IFS/BRC/VDMA standards. They can be operated without restrictions in operations that must fulfill the HACCP Concept.

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

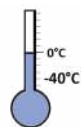


16132 0041	161PX 06L12 LM H50	1	10	1.340	134	50	1 x 18W	1,7
16132 0044	161PX 06L20 LM H50	1	16	2.260	141	50	2 x 18W	1,7
16132 0042	161PX 12L22 LM H50	1	15	2.380	159	50	1 x 36W	2,8
16132 0045	161PX 12L42 LM H50	1	27	4.220	156	50	2 x 36W	2,8
16132 0043	161PX 15L34 LM H50	1	21	3.430	163	50	1 x 58W	3,4
16132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

## 161PX... LM T40



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



16132 0052	161PX 12L22 LM T40	1	15	2.380	159	40	1 x 36W	2,8
16132 0055	161PX 12L42 LM T40	1	27	4.220	156	40	2 x 36W	2,8
16132 0053	161PX 15L34 LM T40	1	21	3.430	163	40	1 x 58W	3,4
16132 0056	161PX 15L60 LM T40	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	161PX 12L42 HE	1	22	4.050	184		2 x 36W	2,8
16130 0141	161PX 12L60 HE	1	35	6.390	183		2 x 58W	2,8
16130 0142	161PX 12L90 HE	1	52	9.500	183		< 3 x 58W	2,8
16130 0143	161PX 12L120 HE	1	69	12.610	183		2 x 80 bzw. 3 x 58W	2,8
16130 0144	161PX 15L34 HE	1	19	3.690	194		1 x 58W	3,4
16130 0145	161PX 15L60 HE	1	32	6.040	189		2 x 58W	3,4
16130 0146	161PX 15L75 HE	1	43	7.980	186		> 2 x 58W	3,4
16130 0147	161PX 15L120 HE	1	70	12.840	183		2 x 80 bzw. 3 x 58W	3,4
16130 0148	161PX 15L150 HE	1	86	15.760	183		4 x 58W	3,4

**NEW**

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

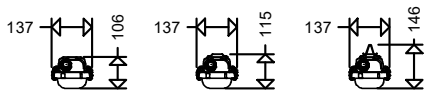
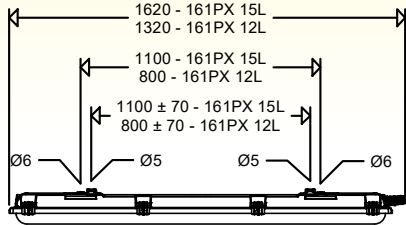
Areas in trade, trade and industry with corrosive atmospheres or craft gases and vapors that can damage the LED up to and including total failure. E.g. chemical industry, galvanizing plants, electroplating plants, foundries, tire production and storage, paper mills, sewage treatment plants, waste incineration plants etc. Advice on request.

**Design:**

Like the standard version, but with modifications for increased (ER) or high (HR) protection against corrosive atmospheres or harmful gases.

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



### 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.



Dustproof/Waterproof Light Fittings

## 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



## Dustproof/Waterproof LED Light Fitting with Diffuser Series 161/162.. / 161... 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 captive plastic clips

(KK), incl. 2 safety clips (KKS) to ensure protection against contact.

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

**Connection:** 3-pole or 5-pole terminal (DIMD).

**Cable entries:** 2 plugs M20.

**Mounting:** Closed knock-outs for direct ceiling mounting (to be opened at site). Sealing and pressure disks inside each fitting.

### 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 2,410 lm and 5,920 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  $L_{90} > 50,000$  h at 25 °C ambient temperature, service life  $L_{80} > 70,000$  h and  $L_{70} > 100,000$  h at max. ambient temperature

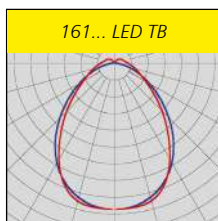
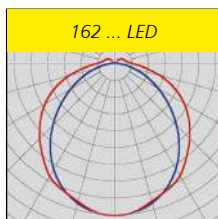
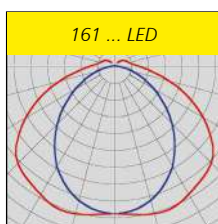
**ECG:** 220-240 V, 50/60 Hz, overload and short-circuit protection

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

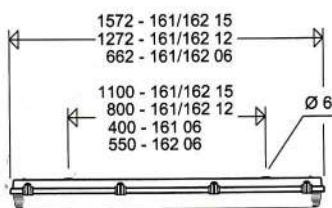
#### Options:

- 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  $R_a > 90$
- green LEDs, for lighting potato stores
- coloured LEDs, for signal applications

- through-wiring (DV)
- cable looping at 1 small side
- cable entry M25 x 1,5 mm<sup>2</sup>
- cover made of polycarbonate (PC), frosted
- stainless steel clips (KE)
- protection class II (SKII)
- vibration-resistant design

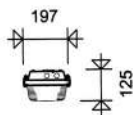
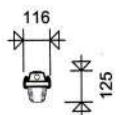


**DB** standardized by Deutsche Bahn AG



Series 161...

Series 162...



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

Optionally the light fittings can be supplied 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 (preparation at additional cost).



#### Notes:

Maximum energy saving by using types which are optimized for energy consumption.

#### 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:

- robust, extremely strong quality light fitting especially suited for rough industrial use
- high-impact resistant housing, excellent chemical and UV-resistance
- diffuser with high mechanical stability, fourfold safety against outer impact
- safety locks to ensure protection against accidental contact
- front in/out wiring (3-pole) possible as standard thanks to 2 entries on one side
- homogeneous illumination by using frosted diffusers
- 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
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## 161/162... / 161... VARIO



16117 0309	<b>161 06L12</b>	1	10	1.390	139	40	1 x 18W	1,8
16117 0310	<b>161 06L20</b>	1	16	2.370	148	40	2 x 18W	1,8
16117 0301	<b>161 12L22</b>	1	15	2.390	159	40	1 x 36W	2,7
16117 0302	<b>161 12L42</b>	1	27	4.240	157	40	2 x 36W	2,7
16117 0305	<b>161 12L60</b>	1	39	5.920	152	30	2 x 58W	2,7
16117 0303	<b>161 15L34</b>	1	21	3.440	164	40	1 x 58W	3,0
16117 0304	<b>161 15L60</b>	1	39	6.160	158	40	2 x 58W	3,0
16117 0306	<b>161 15L75</b>	1	49	7.440	152	30	> 2 x 58W	3,0
16215 0302	<b>162 12L120</b>	2	78	11.410	146	35	2 x 80 bzw. 3 x 58W	4,3
16215 0303	<b>162 15L150</b>	2	97	14.310	148	35	4 x 58W	4,8
16117 0399	<b>161 12L VARIO</b>		15	2.410	160	45	1 x 36W	2,7
			22	3.610 <sup>2)</sup>	164	45	1 x 58W	
			29	4.510	156	40	2 x 36W	
			39	5.920	152	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.

## 161/162... 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.

16117 0319	<b>161 06L12 DIMD</b>	1	10	1.390	139	40	1 x 18W	1,9
16117 0320	<b>161 06L20 DIMD</b>	1	16	2.370	148	40	2 x 18W	1,9
16117 0311	<b>161 12L22 DIMD</b>	1	15	2.390	159	40	1 x 36W	2,8
16117 0312	<b>161 12L42 DIMD</b>	1	27	4.240	157	40	2 x 36W	2,8
16117 0315	<b>161 12L60 DIMD</b>	1	39	5.920	152	30	2 x 58W	2,7
16117 0313	<b>161 15L34 DIMD</b>	1	21	3.440	164	40	1 x 58W	3,1
16117 0314	<b>161 15L60 DIMD</b>	1	39	6.160	158	40	2 x 58W	3,1
16117 0316	<b>161 15L75 DIMD</b>	1	49	7.440	152	30	> 2 x 58W	3,1
16215 0312	<b>162 12L120 DIMD</b>	2	78	11.410	146	35	2 x 80 bzw. 3 x 58W	4,4
16215 0313	<b>162 15L150 DIMD</b>	2	97	14.310	148	35	4 x 58W	4,9

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



Dustproof/Waterproof Light Fittings



## 161... 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
161... DIMC	x	x	-	-
161... DIMC-Z30	x	x	-	x
161... SENS	x	x	x	-
161... 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.

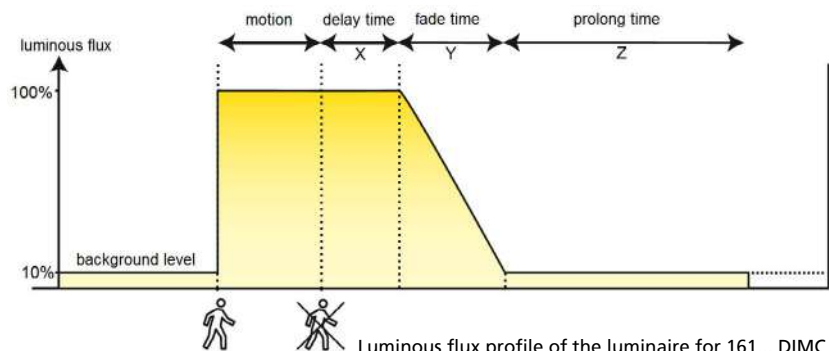
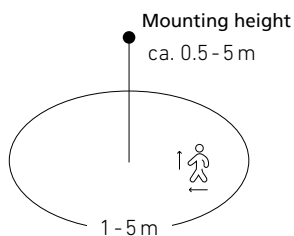
**Setting options for SENS luminaires:** Via potentiometer on the sensor or optionally via IR remote control (article number 90295 9000):

- 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

Detection range of sensor



Luminous flux profile of the luminaire for 161... DIMC

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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## 161... 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.

16117 0420	<b>161 12L22 DIMC</b>	1	15	2.390	159	40	1 x 36W	2,8
16117 0421	<b>161 12L42 DIMC</b>	1	27	4.240	157	40	2 x 36W	2,8
16117 0422	<b>161 15L34 DIMC</b>	1	21	3.440	164	40	1 x 58W	3,1
16117 0423	<b>161 15L60 DIMC</b>	1	39	6.160	158	40	2 x 58W	3,1

## 161... 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 %).

16117 0710	<b>161 12L22 DIMC-Z30</b>	1	15	2.390	159	40	1 x 36W	2,8
16117 0711	<b>161 12L42 DIMC-Z30</b>	1	27	4.240	157	40	2 x 36W	2,8
16117 0712	<b>161 15L34 DIMC-Z30</b>	1	21	3.440	164	40	1 x 58W	3,1
16117 0713	<b>161 15L60 DIMC-Z30</b>	1	39	6.160	158	40	2 x 58W	3,1

## 161... 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.

16117 0697	<b>161 12L22 SENS</b>	1	15	2.390	159	40	1 x 36W	2,9
16117 0698	<b>161 12L42 SENS</b>	1	27	4.240	157	40	2 x 36W	2,9
16117 0699	<b>161 15L34 SENS</b>	1	21	3.440	164	40	1 x 58W	3,2
16117 0700	<b>161 15L60 SENS</b>	1	39	6.160	158	40	2 x 58W	3,2

## 161... 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 %).

16117 0715	<b>161 12L22 SENS-Z30</b>	1	15	2.390	159	40	1 x 36W	2,9
16117 0716	<b>161 12L42 SENS-Z30</b>	1	27	4.240	157	40	2 x 36W	2,9
16117 0718	<b>161 15L34 SENS-Z30</b>	1	21	3.440	164	40	1 x 58W	3,2
16117 0719	<b>161 15L60 SENS-Z30</b>	1	39	6.160	158	40	2 x 58W	3,2

\* 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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## 162... TB



### narrow-wide beam, optics with 60° angle (TB)

#### Applications:

Illumination for workplaces, aisles, etc.

#### Design:

Same as standard versions 162... LED, but with narrow-wide beam optics with 60° (TB) beam angle.

16215 0601	162 15L120TB	2	78	11.960	153	40	2 x 80 bzw. 3 x 58W	5,4
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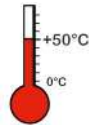
## 161... H50



### 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.



16117 0324	161 06L12 H50	1	10	1.390	139	50	1 x 18W	2,0
16117 0490	161 06L20 H50	1	16	2.370	148	50	2 x 18W	2,0
16117 0321	161 12L22 H50	1	15	2.390	159	50	1 x 36W	2,7
16117 0491	161 12L42 H50	1	27	4.240	157	50	2 x 36W	2,7
16117 0322	161 15L34 H50	1	21	3.440	164	50	1 x 58W	3,0
16117 0492	161 15L60 H50	1	39	6.160	158	50	2 x 58W	3,0
16117 0334	161 06L12 H50 DIMD	1	10	1.390	139	50	1 x 18W	2,0
16117 0493	161 06L20 H50 DIMD	1	16	2.370	148	50	2 x 18W	2,0
16117 0331	161 12L22 H50 DIMD	1	15	2.390	159	50	1 x 36W	2,8
16117 0494	161 12L42 H50 DIMD	1	27	4.240	157	50	2 x 36W	2,8
16117 0332	161 15L34 H50 DIMD	1	21	3.440	164	50	1 x 58W	3,1
16117 0495	161 15L60 H50 DIMD	1	39	6.160	158	50	2 x 58W	3,1



## 161... T40

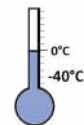


### for ambient temperatures down to -40 °C

#### Applications:

Cooling chambers, frozen food stock etc.

**no longer available**



16117 0409	161 06L12 T40	1	9	1.190	132	40	1 x 18W	1,8
16117 0410	161 06L20 T40	1	18	2.620	146	40	2 x 18W	1,8
16117 0401	161 12L22 T40	1	14	2.390	171	40	1 x 36W	2,7
16117 0402	161 12L42 T40	1	27	4.240	157	40	2 x 36W	2,7
16117 0403	161 15L34 T40	1	21	3.440	164	40	1 x 58W	3,0
16117 0404	161 15L60 T40	1	38	6.160	162	40	2 x 58W	3,0

## 161/162... T40 / H...



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

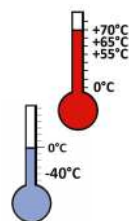
#### Applications:

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.



16117 0509	161 06L12 T40 H65	1	9	1.190	132	65	1 x 18W	1,8
16117 0510	161 06L20 T40 H55	1	18	2.620	146	55	2 x 18W	1,8
16117 0501	161 12L22 T40 H65	1	14	2.390	171	65	1 x 36W	2,7
16117 0502	161 12L42 T40 H55	1	27	4.240	157	55	2 x 36W	2,7
16117 0503	161 15L34 T40 H65	1	21	3.440	164	65	1 x 58W	3,0
16117 0504	161 15L60 T40 H55	1	38	6.160	162	55	2 x 58W	3,0
16215 0520	162 12L22 T40 H70	1	15	2.390	159	70	1 x 36W	4,1
16215 0521	162 12L42 T40 H70	1	28	4.840	173	70	2 x 36W	4,1
16215 0501	162 15L34 T40 H70	1	21	3.440	164	70	1 x 58W	4,8
16215 0502	162 15L60 T40 H60	1	39	6.590	169	60	2 x 58W	4,8

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

**Notes:**

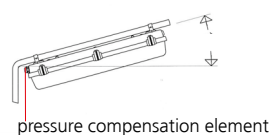
The light fitting is **not suitable** for use in extremely exposed locations with high mechanical stress (wind load) or infrequent or occasional use (e.g. maintenance or inspection lighting).

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).

**pole mount with pipe clamps**



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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**161/162... AUS / 161... 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 161/162... LED, but:

Diffuser: UV proof

Pressure compensation element: M20

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

**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 1.9 mm)
- profile gaskets 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

16117 0350	<b>161 06L12 AUS</b>	1	10	1.390	139	40	1 x 18W	1,8
16117 0358	<b>161 06L20 AUS</b>	1	16	2.370	148	40	2 x 18W	1,8
16117 0351	<b>161 12L22 AUS</b>	1	15	2.390	159	40	1 x 36W	2,7
16117 0352	<b>161 12L42 AUS</b>	1	27	4.240	157	40	2 x 36W	2,7
16117 0355	<b>161 12L60 AUS</b>	1	39	5.920	152	30	2 x 58W	2,7
16117 0353	<b>161 15L34 AUS</b>	1	21	3.440	164	40	1 x 58W	3,0
16117 0354	<b>161 15L60 AUS</b>	1	39	6.160	158	40	2 x 58W	3,0
16117 0356	<b>161 15L75 AUS</b>	1	49	7.440	155	30	> 2 x 58W	3,0
16215 0352	<b>162 12L120 AUS</b>	2	78	11.410	146	35	2 x 80 bzw. 3 x 58W	4,3
16215 0353	<b>162 15L150 AUS</b>	2	97	14.310	148	35	4 x 58W	4,8
16117 0359	<b>161 12L VARIO AUS</b>		15	2.410	160	45	1 x 36W	2,7
			22	3.610 <sup>2)</sup>	164	45	1 x 58W	
			29	4.510	156	40	2 x 36W	
			39	5.920	152	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.

**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.

**161/162... 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 161/162 .. L..but:

Diffuser: cover Polycarbonate, frosted.

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

16119 0039	<b>161 06L12 IFS</b>	1	10	1.390	139	40	1 x 18W	1,8
16119 0040	<b>161 06L20 IFS</b>	1	16	2.370	148	40	2 x 18W	1,8
16119 0041	<b>161 12L22 IFS</b>	1	15	2.390	159	40	1 x 36W	2,7
16119 0043	<b>161 12L42 IFS</b>	1	27	4.240	157	40	2 x 36W	2,7
16119 0305	<b>161 12L60 IFS</b>	1	39	5.920	152	30	2 x 58W	2,7
16119 0042	<b>161 15L34 IFS</b>	1	21	3.440	164	40	1 x 58W	3,0
16119 0044	<b>161 15L60 IFS</b>	1	39	6.160	158	40	2 x 58W	3,0
16119 0046	<b>161 15L75 IFS</b>	1	49	7.440	155	30	> 2 x 58W	3,0
16219 0302	<b>162 12L120 IFS</b>	2	78	11.410	146	35	2 x 80 bzw. 3 x 58W	4,3
16219 0004	<b>162 15L150 IFS</b>	2	97	14.310	148	35	4 x 58W	4,8

\* 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.

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 fittings with light colour 940 (special version), which emits a bigger amount of red light.

## 161/162... LM / 161... 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 161/162... LED 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.

16119 0005	<b>161 06L12 LM</b>	1	10	1.390	139	40	1 x 18W	1,8
16119 0006	<b>161 06L20 LM</b>	1	16	2.370	148	40	2 x 18W	1,8
16119 0001	<b>161 12L22 LM</b>	1	15	2.390	159	40	1 x 36W	2,7
16119 0003	<b>161 12L42 LM</b>	1	27	4.240	157	40	2 x 36W	2,7
16119 0018	<b>161 12L60 LM</b>	1	39	5.920	152	30	2 x 58W	2,7
16119 0002	<b>161 15L34 LM</b>	1	21	3.440	164	40	1 x 58W	3,0
16119 0004	<b>161 15L60 LM</b>	1	39	6.160	158	40	2 x 58W	3,2
16119 0019	<b>161 15L75 LM</b>	1	49	7.440	152	30	> 2 x 58W	3,0
16219 0006	<b>162 12L120 LM</b>	2	78	11.410	146	35	2 x 80 bzw. 3 x 58W	4,3
16219 0002	<b>162 15L100 LM</b>	2	67	10.510	157	40	2 x 80W	4,8
16219 0007	<b>162 15L150 LM</b>	2	97	14.310	148	35	4 x 58W	4,8
16119 0399	<b>161 12L VARIO LM</b>		15	2.410	160	45	1 x 36W	2,7
			22	3.610 <sup>2)</sup>	164	45	1 x 58W	
			29	4.510	156	40	2 x 36W	
			39	5.920	152	35	2 x 58W	

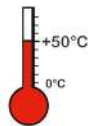
1) Examples of possible settings  
2) Factory setting

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

## 161... LM H50



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

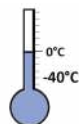


16119 0067	<b>161 06L12 LM H50</b>	1	10	1.390	139	50	1 x 18W	2,0
16119 0050	<b>161 06L20 LM H50</b>	1	16	2.370	148	50	2 x 18W	1,6
16119 0051	<b>161 12L22 LM H50</b>	1	15	2.390	159	50	1 x 36W	2,8
16119 0053	<b>161 12L42 LM H50</b>	1	27	4.240	157	50	2 x 36W	4,3
16119 0052	<b>161 15L34 LM H50</b>	1	21	3.440	164	50	1 x 58W	3,0
16119 0054	<b>161 15L60 LM H50</b>	1	39	6.160	158	50	2 x 58W	3,1

## 161... LM T40



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



16119 0101	<b>161 12L22 LM T40</b>	1	14	2.390	171	40	1 x 36W	2,7
16119 0103	<b>161 12L42 LM T40</b>	1	27	4.240	157	40	2 x 36W	2,7
16119 0102	<b>161 15L34 LM T40</b>	1	21	3.440	164	40	1 x 58W	3,2
16119 0104	<b>161 15L60 LM T40</b>	1	38	6.160	162	40	2 x 58W	3,2

\* 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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## 161... 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.

#### Options:

- stainless steel clips (KE)
- for higher ambient temperatures up to +50 °C

#### Design:

Like the standard version, but with modifications for increased (ER) or high (HR) protection against corrosive atmospheres or harmful gases.

– with through wiring system

16123 0003	<b>161 12L22 ER</b>	1	15	2.490	166	40	1 x 36W	2,7
16123 0004	<b>161 12L42 ER</b>	1	27	4.410	163	40	2 x 36W	2,7
16123 0005	<b>161 15L34 ER</b>	1	21	3.590	171	40	1 x 58W	3,0
16123 0006	<b>161 15L60 ER</b>	1	39	6.400	164	40	2 x 58W	3,0
16123 0503	<b>161 12L22 HR</b>	1	15	2.490	166	40	1 x 36W	3,0
16123 0504	<b>161 12L42 HR</b>	1	27	4.410	163	40	2 x 36W	3,0
16123 0505	<b>161 15L34 HR</b>	1	21	3.590	171	40	1 x 58W	3,3
16123 0506	<b>161 15L60 HR</b>	1	39	6.400	164	40	2 x 58W	3,3

Dustproof/Waterproof Light Fittings

**NEW**

## 162... DB



Photo: Lothar - Beeck

#### Applications:

Interior spaces and outdoor facilities in areas away from the tracks, e.g. technical rooms, switchgear, damp rooms etc.

#### Deutsche Bahn listing:

DB Netze AG  
List sheet number 5J10

#### Design:

Like the standard version, but::

Housing: cover Polycarbonate, frosted

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

Colour rendering: Ra > 90

Protection class: II

Ambient temperature: from -25°C to 45 °C

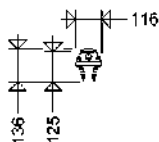
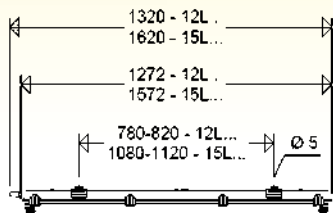
#### Product highlights of this version:

- Deutsche Bahn listing
- extremely robust
- cost-efficient operation
- environmentally friendly and future-proof



16215 0389	<b>162 06L20KE 940 SKII</b>	1	35	4.520	129	45	2 x 36W	3,9
16215 0388	<b>162 12L42KE 940 SKII</b>	1	18	2.190	122	45	2 x 18W	2,3

\* 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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## 161... FF/FC (FastFix/FastConnect)



### with FastFix 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 FastFix/FastConnect version:

- FastFix bracket and quick connector pre-assembled
- installation and electrical connection without opening the light fitting
- saves at least 60 % mounting time

16117 0801	161 12L22 FF/FC	1	15	2.390	159	40	1 x 36W	2,7
16117 0802	161 12L42 FF/FC	1	27	4.240	157	40	2 x 36W	2,7
16117 0803	161 15L34 FF/FC	1	21	3.440	164	40	1 x 58W	3,0
16117 0804	161 15L60 FF/FC	1	39	6.160	158	40	2 x 58W	3,0

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

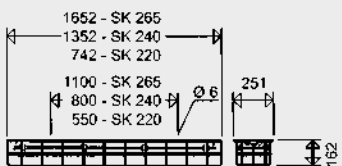
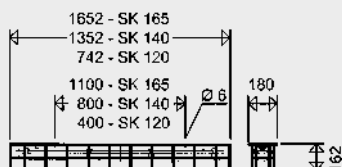
#### Note:

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

FC is not available with the variants AUS (unprotected outdoor area) and LM (food industry) combinable.

## Accessories / Spare Parts

#### Protective guard



Pipe clamp R1 1/2" - Ø 48,3 mm  
R2" - Ø 60,3 mm



#### Ceiling bracket 183 DS



Article no.	Type		Article no	Type	
<b>spare glasses, PMMA frosted</b>			<b>spare glasses, PC frosted</b>		
16111 9035	ABD 161 018 F	for 161 06..	16111 9036	ABD 161 018 F PC	for 161 06..
16111 9031	ABD 161 036 F	for 161 12..	16111 9033	ABD 161 036 F PC	for 161 12..
16111 9032	ABD 161 058 F	for 161 15..	16111 9034	ABD 161 058 F PC	for 161 15..
16211 9035	ABD 162 018 F	for 162 06..	16211 9030	ABD 162 018 F PC	for 162 06..
16211 9031	ABD 162 036 F	for 162 12..	16211 9033	ABD 162 036 F PC	for 162 12..
16211 9032	ABD 162 058 F	for 162 15..	16211 9034	ABD 162 058 F PC	for 162 15..
<b>spare glasses LM-version 161...</b>			<b>spare glasses LM-version 162...</b>		
16111 9017	ABD 161 018 LM	for 161 06..			
16111 9018	ABD 161 036 LM	for 161 12..	16211 9018	ABD 162 036 LM	for 162 12..
16111 9019	ABD 161 058 LM	for 161 15..	16211 9019	ABD 162 058 LM	for 162 15..
<b>Wire guards, powder coated</b>					
90004 0001	SK 120	for 161 06..	90004 0004	SK 220	for 162 06..
90004 0002	SK 140	for 161 12..	90004 0005	SK 240	for 162 12..
90004 0003	SK 165	for 161 15..	90004 0006	SK 265	for 162 15..
<b>Fasteners</b>					
90053 9008	KK/KKS FR VE10	plastic, incl. 2 safety clips (packing unit 10 pcs.)			
90055 9004	KE/KES VE10	stainless steel, incl. 2 safety clips (packing unit 10 pcs.)			
90053 9004	KKS P	1 pair of safety clips (for LED version), plastic			
90055 9005	KES P	1 pair of safety clips (for LED version), stainless steel			
<b>Cable entries/pressure compensation elements</b>					
90063 9000	2511	blanking plug M20			
25610 9000	2561	plastic cable gland M20 x 1,5			
25600 9000	2560	plastic cable gland M25 x 1,5			
90259 9002	DAE20	pressure compensation element M20			
90259 9003	DAE 20/25	adapter gland M20 -> M25 with pressure compensation			
<b>Pipe clamps</b>					
90093 0002	183 RO 112 A P	2 pcs., 1 1/2" stainless steel, with support			
90094 0002	183 RO 2 A P	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>Angle brackets, aluminium</b>					
90045 9001	HW 30 P	pair of angle brackets 30°			
90045 9002	HW 45 P	pair of angle brackets 45°			
90045 9004	HW 60 P	pair of angle brackets 60°			
90045 9003	HW 90 P	pair of angle brackets 90°			
<b>Accessories for ceiling mounting</b>					
90049 0002	183 S	hook for chain suspension			
90095 0001	DS 183	stainless steel bracket with bolt M5			
<b>Infrared remote control for SENS-light fittings</b>					
90295 9000	FB SENSOTEC-MINI	Infrared remote control for 161... SENS			

## Dustproof/Waterproof LED Light Fitting with Diffuser Series 163... G2 VARIO / 164... G2

### Applications:

In humid, wet and dusty indoor areas of industrial and agricultural premises, for workshops and car parks, cold stores, low temperature stores, cooling chambers and walkable low temperature cabins in hotels, hard to reach areas with high downtime and maintenance costs when replacing the lamps. (For damp and cold ambient conditions with low duty cycles and in the case of aggressive atmosphere, please contact us)

### Design:

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

**Diffuser:** PMMA, modified for higher

impact resistance, frosted for glare limitation.

**Closure:** External plastic clips (KK) incl. 2 safety clips (KKS) to ensure protection against contact.

**Reflector:** Painted, removable complete 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 holes for ceiling mounting. Sealing and pressure disks for sealing are supplied inside the fitting.

### 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:

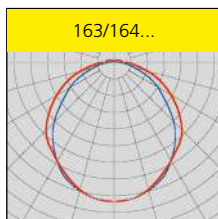
**LED:** Linear modules 4,000 K, CRI > 80, service life  $L_{90}$  > 50,000 h at 25 °C ambient temperature, service life  $L_{80}$  > 70,000 h and  $L_{70}$  > 100,000 h at max. ambient temperature

**ECG:** 220-240 V, 50/60 Hz, 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)
- coloured LEDs, for signal applications
- through-wiring (DV)
- cable looping at 1 small side
- rear cable entry
- cover made of polycarbonate (PC), clear pearled
- stainless steel clips (KE)

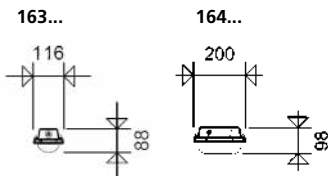
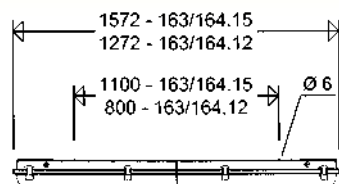


#### Product highlights of the VARIO version:

- 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:

- quality luminaire with above-average mechanical strength
- safety locks to ensure protection against accidental contact
- variable cable entry thanks to additional entries along and at the top of the housing
- homogeneous illumination by using frosted diffusers, comfortable perception of light and brilliant glare limitation
- sustainable, control gear and LED-module replaceable by qualified personnel on-site
- future proof by using standardised 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
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### 163... G2 VARIO / 164... G2



<b>NEW</b>	16302 0010	<b>163 12LG2 VARIO</b>	1	20	3.100	155	40	1 x 36W	2,3
				25	3.870	155	40	1 x 58W	
				29	4.640	160	40	2 x 36W	
				34	5.420	159	35	2 x 58W	
<b>NEW</b>	16302 0011	<b>163 15LG2 VARIO</b>	1	25	3.880	155	40	1 x 58W	2,8
				30	4.800	160	40	2 x 36W	
				36	5.760	160	40	2 x 58W	
				42	6.650	158	35	> 2 x 58W	
	16415 0016	<b>164 12L90G2</b>	1	57	8.990	158	40	2 x 80W	3,1
	16415 0017	<b>164 15L120G2</b>	1	78	12.030	154	40	4 x 58W	3,8

### 163/164... G2 DIMD



**dimmable via DALI interface**

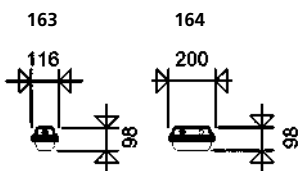
**Design:**

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

16302 0020	<b>163 12L22G2 DIMD</b>	1	15	2.390	159	40	1 x 36W	2,3
16302 0022	<b>163 12L42G2 DIMD</b>	1	27	4.210	156	40	2 x 36W	2,3
16302 0021	<b>163 15L34G2 DIMD</b>	1	21	3.450	164	40	1 x 58W	2,8
16302 0023	<b>163 15L60G2 DIMD</b>	1	39	6.140	157	40	2 x 58W	2,8
16415 0018	<b>164 12L90G2 DIMD</b>	1	57	8.990	158	40	2 x 80W	3,1
16415 0019	<b>164 15L120G2 DIMD</b>	1	78	12.030	154	40	4 x 58W	3,8

#### Notes:

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



### 163... VARIO IFS / 164... 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 163/164 .. L, but:

**Diffuser:** cover Polycarbonate stippled clear.

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

<b>NEW</b>	16319 0010	<b>163 12L VARIO IFS</b>	1	20	3.290	165	40	1 x 36W	2,3
				25	4.100	164	40	1 x 58W	
				29	4.920	170	40	2 x 36W	
				34	5.750	169	35	2 x 58W	
<b>NEW</b>	16319 0011	<b>163 15L VARIO IFS</b>	1	25	4.110	164	40	1 x 58W	2,8
				30	5.090	170	40	2 x 36W	
				36	6.100	169	40	2 x 58W	
				42	7.050	168	35	> 2 x 58W	
	16419 0001	<b>164 12L90 IFS</b>	2	57	9.530	167	40	2 x 80W	3,1
	16419 0002	<b>164 15L120 IFS</b>	2	78	12.750	163	40	4 x 58W	3,8

\* 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



## 163/164... 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
163/164... DIMC	x	x	–	–
163/164... DIMC-Z30	x	x	–	x
163... SENS	x	x	x	-
163... 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.

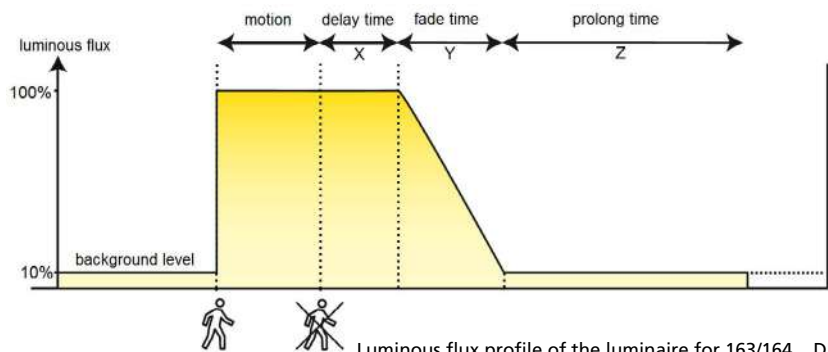
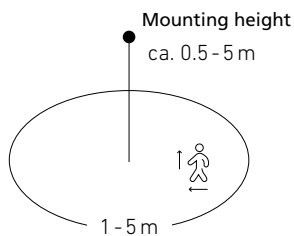
Setting options for SENS luminaires: Via potentiometer on the sensor or optionally via IR remote control (article number 90295 9000):

– 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

Detection range of sensor



Luminous flux profile of the luminaire for 163/164... DIMC

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:**

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.



## 163/164 ... G2 DIMC



**Factory settings DIMC types:**

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

16302 0024	<b>163 12L22G2 DIMC</b>	1	15	2.390	159	40	1 x 36W	2,3
16302 0026	<b>163 12L42G2 DIMC</b>	1	27	4.210	156	40	2 x 36W	2,3
16302 0025	<b>163 15L34G2 DIMC</b>	1	21	3.450	164	40	1 x 58W	2,8
16302 0027	<b>163 15L60G2 DIMC</b>	1	39	6.140	157	40	2 x 58W	2,8
16415 0020	<b>164 12L90G2 DIMC</b>	1	57	8.990	158	40	2 x 80W	3,1
16415 0021	<b>164 15L120G2 DIMC</b>	1	78	12.030	154	40	4 x 58W	3,8

## 163/164 ... G2 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 %).

16302 0120	<b>163 12L22G2 DIMC-Z30</b>	1	15	2.390	159	40	1 x 36W	2,3
16302 0122	<b>163 12L42G2 DIMC-Z30</b>	1	27	4.210	156	40	2 x 36W	2,3
16302 0121	<b>163 15L34G2 DIMC-Z30</b>	1	21	3.450	164	40	1 x 58W	2,8
16302 0123	<b>163 15L60G2 DIMC-Z30</b>	1	39	6.140	157	40	2 x 58W	2,8
16415 0030	<b>164 12L90G2 DIMC-Z30</b>	1	57	8.990	158	40	2 x 80W	3,1
16415 0031	<b>164 15L120G2 DIMC-Z30</b>	1	78	12.030	154	40	4 x 58W	3,8



## 163... 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.

16302 0030	<b>163 12L22G2 SENS</b>	1	15	2.390	159	40	1 x 36W	2,1
16302 0031	<b>163 12L42G2 SENS</b>	1	27	4.210	156	40	2 x 36W	2,1
16302 0028	<b>163 15L34G2 SENS</b>	1	21	3.450	164	40	1 x 58W	2,5
16302 0029	<b>163 15L60G2 SENS</b>	1	39	6.140	157	40	2 x 58W	2,5



## 163... G2 SENS-Z30



**DIMC version with integrated motion sensor**

**Design:**

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

**Default settings different from SENS types:**

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

16302 0124	<b>163 12L22G2 SENS-Z30</b>	1	15	2.390	159	40	1 x 36W	2,1
16302 0126	<b>163 12L42G2 SENS-Z30</b>	1	27	4.210	156	40	2 x 36W	2,1
16302 0125	<b>163 15L34G2 SENS-Z30</b>	1	21	3.450	164	40	1 x 58W	2,5
16302 0127	<b>163 15L60G2 SENS-Z30</b>	1	39	6.140	157	40	2 x 58W	2,5

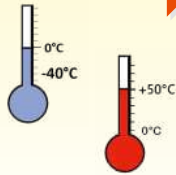
\* The given information is for rough orientation only. In each individual case a lighting calculation is necessary.

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** 163... G2 T40/H50



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



16302 0080	163 12L22G2 T40 H50	1	15	2.390	159	50	1 x 36W	2,4
16302 0082	163 12L42G2 T40 H50	1	27	4.210	156	50	2 x 36W	2,4
16302 0081	163 15L34G2 T40 H50	1	21	3.450	164	50	1 x 58W	2,8
16302 0083	163 15L60G2 T40 H50	1	39	6.140	157	50	2 x 58W	2,8

**NEW** 163... G2 VARIO SBL



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).

**Design:**

Modified for high protection against chlorinated atmospheres.



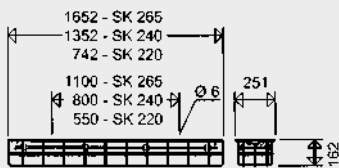
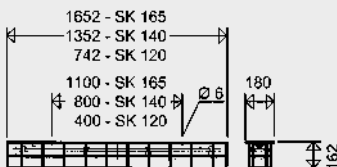
16302 0200	163 12LG2 VARIO SBL	1	19	3.210	169	40	1 x 36W	2,3
			24	3.920	163	40	1 x 58W	
			29	4.620	159	40	2 x 36W	
			35	5.340	153	35	2 x 58W	
16302 0201	163 15LG2 VARIO SBL	1	24	4.010	167	40	1 x 58W	2,8
			31	4.900	158	40	2 x 36W	
			37	5.770	156	40	2 x 58W	
			43	6.680	155	35	> 2 x 58W	

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

**Accessories / Spare Parts**

Article no.	Type		Article no.	Type	
<b>Spare glasses, PMMA, frosted</b>			<b>Spare glasses, PC, stippled clear</b>		
16711 9001	ABD 163 036 F G2	for 163 12L.. G2	16311 9004	ABD 163 036 PC	for 163 12L.. IFS
16711 9002	ABD 163 058 F G2	for 163 15L.. G2	16311 9005	ABD 163 058 PC	for 163 15L.. IFS
16411 9008	ABD 164 036 F G2	for 164 12L.. G2	16411 9004	ABD 164 036 PC	for 164 12L.. IFS
16411 9009	ABD 164 058 F G2	for 164 15L.. G2	16411 9005	ABD 164 058 PC	for 164 15L.. IFS
16311 9006	ABD 163 036 F	for 163 12L...			
16311 9007	ABD 163 058 F	for 163 15L...			
16411 9006	ABD 164 036 F	for 164 12L...			
16411 9007	ABD 164 058 F	for 164 15L...			
<b>Fasteners</b>					
90123 9007	163 KK/KKS V08	plastic, incl. 2 safety clips (packing unit 8 pcs.)			
90123 9006	163 KE/KES V08	stainless steel, incl. 2 safety clips (packing unit 8 pcs.)			
90123 9004	163 KKS P	1 pair of safety clips (for LED version), plastic			
90123 9005	163 KES P	1 pair of safety clips (for LED version), stainless steel			
<b>Cable entries</b>					
90063 9000	2511	blinking plug M20			
25610 9000	2561	plastic cable gland M20 x 1,5			
25600 9000	2560	plastic cable gland M25 x 1,5			
<b>Protective guard, powder coated</b>					
90004 0002	SK 140	for 163 12...			
90004 0003	SK 165	for 163 15...			
90004 0005	SK 240	for 164 12...			
90004 0006	SK 265	for 164 15...			
<b>Pipe clamps</b>					
90245 0003	163 RO 112A P	1 1/2", stainless steel, with support (pair) for 163...			
90245 0004	163 RO 2A P	2", stainless steel, with support (pair) for 163...			
90245 0005	164 RO 112A P	1 1/2", stainless steel, with support (pair) for 164...			
90245 0006	164 RO 2A P	2", stainless steel, with support (pair) for 164...			
<b>Attention: Observe the fixing distance when mounting on boom with pipe clamps (boom length!)</b>					
<b>Accessories for ceiling mounting</b>					
90049 0002	183 S	swing hook for chain suspension			
90095 0001	DS 183	stainless steel bracket, with screw M5			
<b>Infrared remote control for SENS-light fittings</b>					
90295 9000	FB SENSOTEC-MINI	Infrared remote control for 163 .. SENS			

**Protective guard**



Pipe clamp R1 1/2" - Ø 48,3 mm  
R2" - Ø 60,3 mm



**Ceiling bracket 183 DS**



# 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)

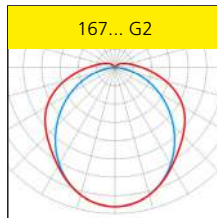
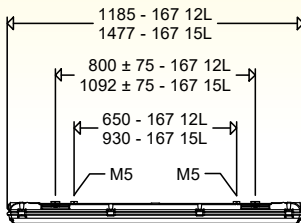
### VARIO versions with variable setting of the luminous flux

#### 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

**ECCG:** 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
- 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).

**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)!

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 VARIO**

★	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	
NEW	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	

★ BestSelect – a selection of tried-and-tested SCHUCH luminaires for your everyday needs. More at: [www.schuch.de/BestSelect](http://www.schuch.de/BestSelect)

**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 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		
NEW	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 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				

#### 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



NEW

## 167... FastConnect (FC)

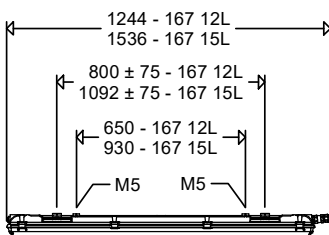


### with quick mounting system

**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 8.3 – 11.5 mm)

#### Advantages of the FastConnect version:

- quick connector with pre-assembled strain relief
- installation and electrical connection without opening the light fitting
- Time saving during luminaire installation ≥ 50 %



16700 0060	<b>167 12LG2 VARIO FC</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 0061	<b>167 15LG2 VARIO FC</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	

- 1) possible setting range  
2) Factory setting

\* 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.



## 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:

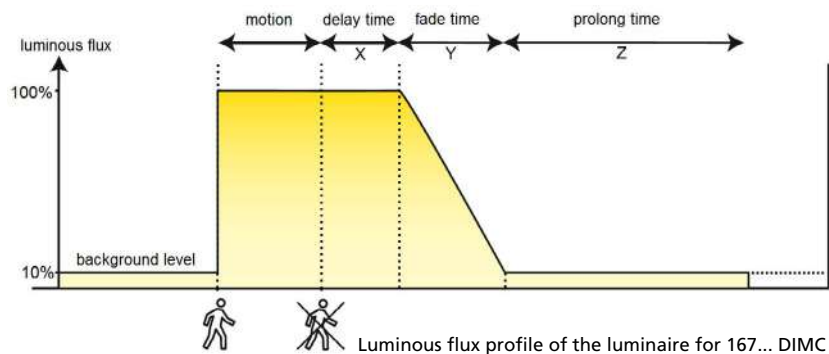
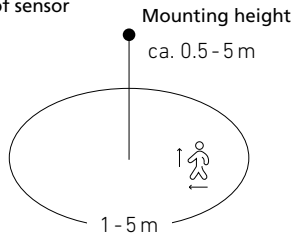
- Standard sensor hold time (X): 5 minutes can be set (see setting options), only for SENS types
- Dimming ramp (Y): 30 seconds, for DIMC and SENS types
- Reduced operation (L' = 0V): 10 % luminous flux if no activity is detected, for SENS and DIMC types
- Automatic switch-off deactivated (Z), luminaire 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

Detection range of sensor



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

## 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.



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 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.

#### Design:

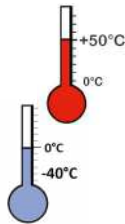
As standard version, but with CASAMBI®-enabled control gear for smart lighting control.

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
- high-efficiency design (HE) for reduced energy consumption
- significant reduction of operating costs and CO<sub>2</sub> reduction

16700 0090	<b>167 12L42G2 HE CS</b>	1	27	4.380	162	40	2 x 36W	1,7
16700 0091	<b>167 15L60G2 HE CS</b>	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	<b>167 12L42G2 T40 H50</b>	1	27	4.380	162	50	2 x 36W	1,7
16700 0082	<b>167 15L34G2 T40 H50</b>	1	24	4.070	170	50	1 x 58W	2,0
16700 0084	<b>167 15L60G2 T40 H50</b>	1	39	6.460	166	50	2 x 58W	2,0



**NEW**

## 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.

#### Design:

As standard version 167...G2, but with corrosion-protected components.

Seal: Silicone

Cable entry: 1 M20 screw connection on one end, 1 M20 screw plug on the other end.

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

#### 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	<b>167 12L42G2 HL</b>	1	23	4.000	174	35	1 x 58W	1,7
16706 0004	<b>167 15L60G2 HL</b>	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	<b>167 12L42G2 LW</b>	1	23	4.000	174	35	1 x 58W	1,7
16702 0014	<b>167 15L60G2 LW</b>	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 (TierSCHNutzTV), 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	<b>167 12L42G2 ER DIMD</b>	1	24	4.170	174	35	2 x 36W	1,7
16702 0024	<b>167 15L60G2 ER DIMD</b>	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
90259 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 SENSOTEC-MINI</b>	Infrared remote control for 167... G2 SENS



# DUEVO

## LED High Bay Fitting

### Series 3301/3302...

#### Applications:

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

#### Design:

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

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

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

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

**Mounting:** 4 eyelets M6 included in delivery.

#### Technical Data:

**LED module:** 4,000 K, CRI > 80, service life  $L_{90} > 50,000$  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

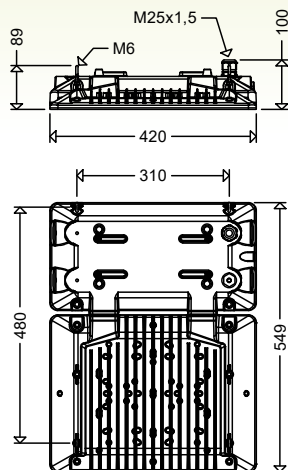
#### Options:

- 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

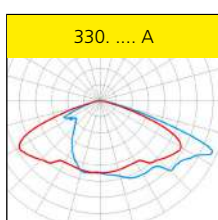
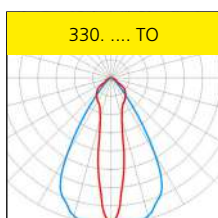
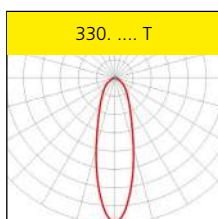
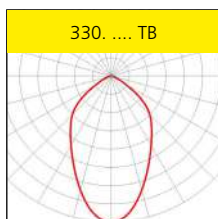
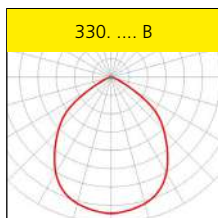
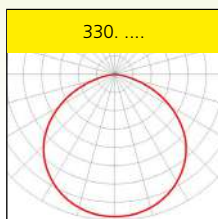
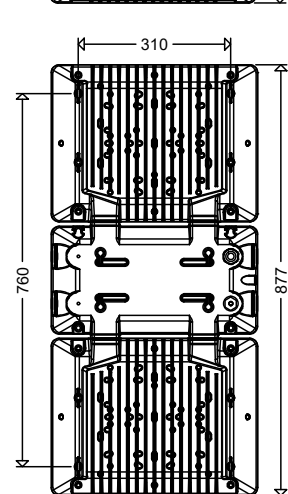
#### Product highlights:

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

3301...



3302...



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

See "Technical Supplement"

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



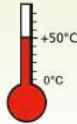
... for ambient temperatures up to +50 °C

1 LED segment

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

135	20.200	150	HIE 400
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3301...



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

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

67	10.800	161	HME 250
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33010 0005	3301 L160 H60		•				8,9
33010 0007	3301 L160B H60		•				9,2
33010 0016	3301 L160TB H60			•			9,2
33010 0009	3301 L160T H60				•		9,2
33010 0204	3301 L160 DIMD H60	•	•				8,9
33010 0206	3301 L160B DIMD H60	•	•				9,2
33010 0215	3301 L160TB DIMD H60	•		•			9,2
33010 0208	3301 L160T DIMD H60	•			•		9,2

96	15.000	156	HIT 250, HME 400
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### 3302...



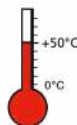
... for ambient temperatures up to +50 °C

2 LED segments

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

270	40.400	150	2 x HIE 400
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3302...



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

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

134	21.600	161	HIE 400
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33020 0005	3302 L320 H60		•				14,5
33020 0007	3302 L320B H60		•				14,6
33020 0016	3302 L320TB H60			•			14,6
33020 0009	3302 L320T H60				•		14,6
33020 0204	3302 L320 DIMD H60	•	•				14,5
33020 0206	3302 L320B DIMD H60	•	•				14,6
33020 0215	3302 L320TB DIMD H60	•		•			14,6
33020 0208	3302 L320T DIMD H60	•			•		14,6

192	30.000	156	HIT 400
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\* This date is a rough guideline. In individual cases a lighting calculation is required.

Article no.	Type	Wide beam	Narrow wide beam	Narrow beam	Weight [kg] (without packing material)	Connected load [W]	Luminous flux [lm] <sup>1)</sup>	Light output [lm/W]	Substitute for *
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## 3301... / 3302... VARIO



### Design:

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

### 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 standardization and most economical warehousing



### 1 LED segment

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

### 2 LED segments

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

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

1) possible setting range

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



### IFS Food/BRC/VDMA/HACCP

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

### for application in food industry areas

#### Applications:

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

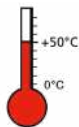
#### Design:

With clear PC cover instead of the flat safety glass.

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

#### 1 LED segment

33010 0010	<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				



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



#### 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				

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

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



### for use in cattle and horse stables

#### Applications:

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

#### Design:

With stainless steel eye bolts.

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

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



## 3301... LW



### for use in pig stalls

#### Applications:

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

#### Design:

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

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

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

#### Gas-tight encapsulated light sensor

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

See catalog chapter Light management Systems/LIMAS Line.



NEW

## 3301... SBL



### for use in Swimming pools

#### Applications:

Swimming pools, indoor pools and chlorinated environments

#### Design:

Modified for high protection against chlorinated atmospheres.

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

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

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

## 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...
90313 0003	<b>KV M25 G BK</b>	plastic cable gland M25 x 1,5
90313 0004	<b>VSR M25 G BK</b>	plastic screw 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**

## AREALO 2

### LED High Bay Fitting

#### Series 7955...



#### Applications:

Production and storage halls in commerce and industry, cold rooms, cold stores, DIY stores, aisles in warehouses, covered areas such as driveways, petrol stations, etc.

#### Design:

**Housing:** Die-cast aluminum, DB 702 (mica-iron paint, grey), with LED modules and flat safety glass (IK09).

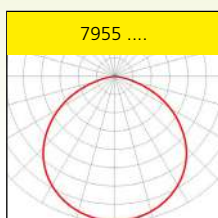
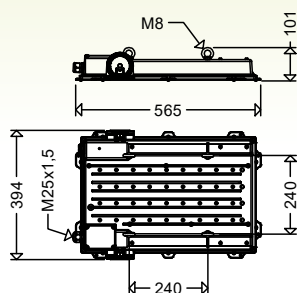
**Light distribution:** Without optics wide

beam, with optics wide beam (B), narrow wide beam (TB) or narrow beam (T), narrow oval beam (TO) for illumination of aisles in rack areas respectively asymmetrical beam (A).

**Entries:** 1 gland M25 x 1.5.

**Connection:** 3-pole (DIMD 5-pole) plug-in terminal in the connection chamber.

**Mounting:** 4 eyelets included in delivery.

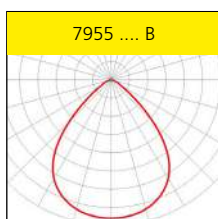


#### Technical Data:

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

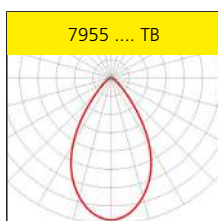
**ECG:** 220-240 V, 50/60 Hz, overload and short circuit protection.

**Ambient temperature:** -25°C up to +40 °C / +45 °C / +55 °C / +65 °C



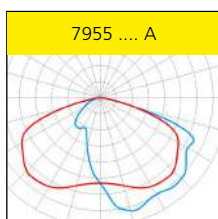
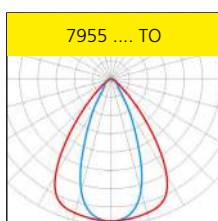
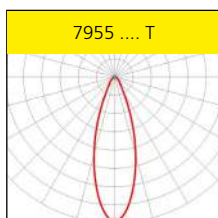
#### Options:

- 5,000 K; light colour (850)
- green LEDs, for lighting potato stores
- cable looping at 1 small side
- for lower ambient temperatures (T40), down to -40 °C
- increased resistance (ER), against corrosive atmospheres
- for connection to central emergency supply systems (ZB)
- power reduction with control phase (LR)
- constant luminous flux function (CL)
- radio-controlled Light Management System for industrial indoor areas (LIMAS Air)
- additional overvoltage protection



#### Product highlights:

- long-lasting, corrosion-resistant die-cast aluminium housing
- optimized thermal management due to direct mounting of the LED modules to the housing, large cooling surface, 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
- 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 standardised 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).



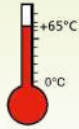
Article no.	Type	Dimmable	Wide beam	Narrow wide beam	Narrow beam	Asymmetrical beam	Tmax [°C]	Weight [kg] (without packing material)	Connected load [W]	Luminous flux [lm]	Light output [lm/W]	Substitute for *
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Dimming function via DALI2 interface, compatible with LIMAS Line wired Light Management System (DIMD).

## 7955...

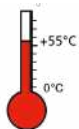
### ... for ambient temperatures up to +65 °C



79550 0001	7955 L190				•							
79550 0002	7955 L190B				•							
79550 0003	7955 L190TB					•						
79550 0004	7955 L190T									•		
79550 0005	7955 L190TO									•		
79550 0006	7955 L190 DIMD	•	•									
79550 0007	7955 L190B DIMD	•	•									
79550 0008	7955 L190TB DIMD	•		•								
79550 0009	7955 L190T DIMD	•			•							
79550 0010	7955 L190TO DIMD	•				•						

65	8,2	103	18.560	180	HIE 400
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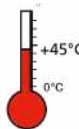
### ... for ambient temperatures up to +55 °C



79550 0011	7955 L250				•							
79550 0012	7955 L250B				•							
79550 0013	7955 L250TB					•						
79550 0014	7955 L250T									•		
79550 0015	7955 L250TO									•		
79550 0016	7955 L250 DIMD	•	•									
79550 0017	7955 L250B DIMD	•	•									
79550 0018	7955 L250TB DIMD	•		•								
79550 0019	7955 L250T DIMD	•			•							
79550 0020	7955 L250TO DIMD	•				•						

55	8,2	146	25.490	175	HIE 400 (HS-VG), HIT400
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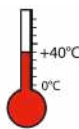
### ... for ambient temperatures up to +45 °C



79550 0021	7955 L360				•							
79550 0022	7955 L360B				•							
79550 0023	7955 L360TB					•						
79550 0024	7955 L360T									•		
79550 0025	7955 L360TO									•		
79550 0026	7955 L360 DIMD	•	•									
79550 0027	7955 L360B DIMD	•	•									
79550 0028	7955 L360TB DIMD	•		•								
79550 0029	7955 L360T DIMD	•			•							
79550 0030	7955 L360TO DIMD	•				•						

45	8,2	212	35.300	167	HIT 400
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### ... for ambient temperatures up to +40 °C



79550 0031	7955 L470				•							
79550 0032	7955 L470B				•							
79550 0033	7955 L470TB					•						
79550 0034	7955 L470T									•		
79550 0035	7955 L470TO									•		
79550 0036	7955 L470 DIMD	•	•									
79550 0037	7955 L470B DIMD	•	•									
79550 0038	7955 L470TB DIMD	•		•								
79550 0039	7955 L470T DIMD	•			•							
79550 0040	7955 L470TO DIMD	•				•						

40	8,5	299	47.930	160	2 x HIT 250, HME 400
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\* This date is a rough guideline. In individual cases a lighting calculation is required.

Article no.	Type	Dimmable	Wide beam	Narrow wide beam	Narrow beam	Asymmetrical beam	Tmax [°C]	Weight [kg] (without packing material)	Connected load [W]	Luminous flux [lm]	Light output [lm/W]	Substitute for *
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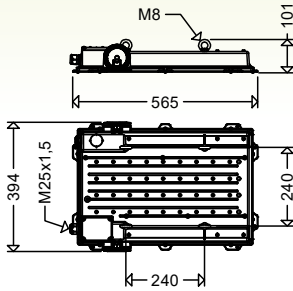
## RFL - Ready for Light Management Systems

### Design:

Same as standard version, but prepared for the subsequent use of a Light Management System. Integrated sockets allows retrofitting of Light Management components without tools.

### Product highlights:

- standardised Zhaga Book 18 compliant sockets with D4i control gear
- subsequent use of a lighting management system possible at any time
- tool-free, quick assembly of the Light Management System accessories



LACA TASTI UP KONT4



LACA TAST AP KONT4



RFL LACA



## 7955... RFL...

with a socket on the top side of the luminaire

79551 0001	7955 L360 RFLSO		•									
79551 0002	7955 L360B RFLSO		•									
79551 0003	7955 L360TB RFLSO			•								
79551 0004	7955 L360T RFLSO				•							
79551 0005	7955 L360TO RFLSO					•						

45	8,2	212	35.300	167	HIT 400
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## System accessories

Type	Art.-No.	
LACA TASTI UP KONT4	90547 9009	Push-button interface for connecting up to 4 analogue pushbutton contacts. Intended for mounting in a flush-mounted box.
LACA TAST AP KONT4	90547 9011	Battery-free 4-fold „EnOcean“ wireless pushbutton. When the button is pressed, energy is generated to supply the button electronics.
RFL LACA	90546 9013	Light management controller (2.4 GHz mesh network) with radio antenna and RFL base.



## 7955... SBL

for use in Swimming pools

### Applications:

Swimming pools, indoor pools and chlorinated environments

### Design:

Modified for high protection against chlorinated atmospheres.

### Attention:

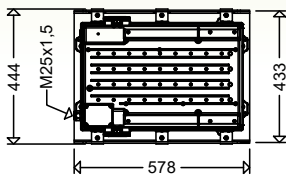
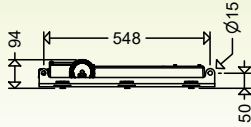
Fastening cables, ceiling and wall mountings must be specially designed. Other versions 7955... are also available as SBL luminaires (on request).



79554 0001	7955 L360 SBL		•									
79554 0002	7955 L360B SBL		•									
79554 0003	7955 L360TB SBL			•								
79554 0004	7955 L360A SBL										•	
79554 0005	7955 L360 DIMD SBL		•	•								
79554 0006	7955 L360B DIMD SBL		•	•								
79554 0007	7955 L360TB DIMD SBL		•		•							
79554 0008	7955 L360A DIMD SBL		•									•

45	8,2	212	35.300	167	HIT 400
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\* This date is a rough guideline. In individual cases a lighting calculation is required.



Article no.	Type	Dimmable	Wide beam	Narrow wide beam	Narrow beam	Asymmetrical beam	Tmax [°C]	Weight [kg] (without packing material)	Connected load [W]	Luminous flux [lm]	Light output [lm/W]	Substitute for *
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## 7955... V



### for use in galvanizing plants

#### Applications:

Specially developed version or use in galvanizing plants.

#### Attention:

Fastening cables must be specially designed. Other versions 7955... are also available as V luminaires (on request).

#### Design:

As standard version 7955..., but: Stable support frame made of galvanised and painted steel.

79553 0001	<b>7955 L360 V</b>				•							
79553 0002	<b>7955 L360B V</b>				•							
79553 0003	<b>7955 L360TB V</b>					•						
79553 0004	<b>7955 L360 V</b>							•				
79553 0006	<b>7955 L360 DIMD V</b>	•	•									
79553 0007	<b>7955 L360B DIMD V</b>	•	•									
79553 0008	<b>7955 L360TB DIMD V</b>	•		•								
79553 0009	<b>7955 L360T DIMD V</b>	•				•						

45	13,9	212	35.300	167	HIT 400
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\* This date is a rough guideline. In individual cases a lighting calculation is required.



## Accessories / Spare Parts

Article no.	Type	
79558 0001	<b>ABD 7955</b>	cover, safety glass pane clear
79559 0001	<b>WDBF 7955 ST</b>	Wall and ceiling mounting, galvanised steel
79559 0003	<b>WDBF 7955 E4</b>	Wall and ceiling mounting, stainless steel V4A, for SBL version
79559 0004	<b>7955 Y P ST</b>	1 pair of Y-ropes

# TRIANO *disc*

## LED High Bay Fitting

### Series 3410/3420/3430...



#### Applications:

Production and storage halls in trade and industry, maintenance halls, assembly plants, cold rooms, cold stores, hardware stores, rack aisles in warehouses, etc.

#### Design:

Robust die-cast aluminum body with cooling fins and integrated ECG housing. 1-3 LED-modules with PC-cover and incorporated optics. All case parts powder coated in DB 702, smooth, matt.

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

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

**Mounting:** 1-point suspension, eyelet included.

**Delivery status:**


1 part, ready for immediate use.

#### Technical Data:

**LED module:** 5,000 K or 4,000 K, CRI > 80, service life  $L_{90} > 50,000$  h at 25 °C ambient temperature, service life  $L_{70} > 100,000$ 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 +45°C/+50 °C

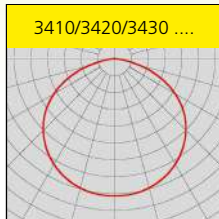
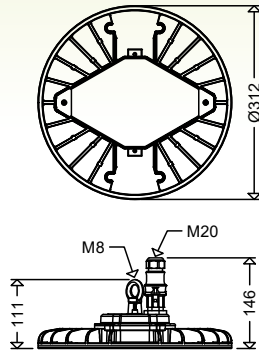
#### Options:

- in accordance with 'International Featured Standard Food' (IFS), with PC cover, without optics
- PMMA cover, with prismatic structure to limit glare
- ball sports proof version (3420 and 3430 series only) 
- for connection to central emergency supply systems (ZB)
- dimming function via DALI2 interface, compatible with LIMAS Line wired Light Management System (DIMD)
- constant luminous flux function (CL)
- radio-controlled Light Management System for industrial indoor areas (LIMAS Air)
- with integrated infrared motion detector and brightness sensor, in combination with LIMAS Air CASA and LIMAS Line BASIC/PRO
- swivel bracket for ceiling or wall mounting
- cover tempered safety glass

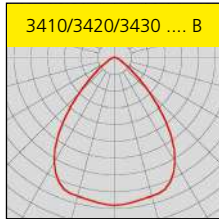
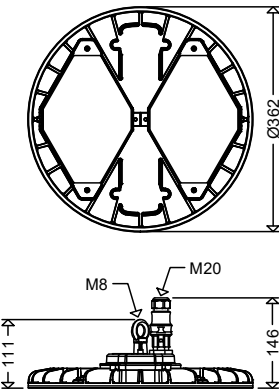
#### Product highlights:

- 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
- sustainable, control gear and LED-module replaceable by qualified personnel on-site

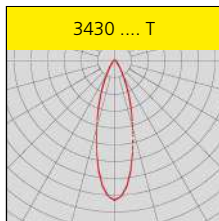
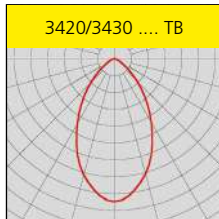
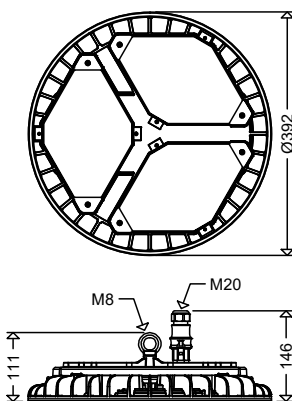
3410 ...



3420 ...



3430 ...



**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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### 3410/3420/3430...

3410...



#### colour temperature 5.000K (light colour 850)

34100 0003	<b>3410 L100B D</b>		•			50	2,1	65	10.000	154	HME 250
34100 0004	<b>3410 L100B D DIMD</b>	•	•			50	2,1				
34200 0003	<b>3420 L200B D</b>		•			45	2,8	123	20.000	163	HIT250, HME 400, HIE 400, (HI-VG)
34200 0005	<b>3420 L200TB D</b>			•		45	2,8				
34200 0004	<b>3420 L200B D DIMD</b>	•	•			45	2,8				
34200 0006	<b>3420 L200TB D DIMD</b>	•		•		45	2,8				
34300 0003	<b>3430 L300B D</b>		•			45	4,0	195	30.000	154	HIE400 (HS-VG), HIT400
34300 0005	<b>3430 L300TB D</b>			•		45	4,0				
34300 0007	<b>3430 L300T D</b>				•	45	4,0				
34300 0004	<b>3430 L300B D DIMD</b>	•	•			45	4,0				
34300 0006	<b>3430 L300TB D DIMD</b>	•		•		45	4,0				
34300 0008	<b>3430 L300T D DIMD</b>	•			•	45	4,0				

3420...



#### colour temperature 4.000K (light colour 840)

34100 0011	<b>3410 L100B D 840</b>		•			50	2,1	65	10.000	154	HME 250
34100 0017	<b>3410 L100B D DIMD 840</b>	•	•			50	2,1				
34200 0011	<b>3420 L200B D 840</b>		•			45	2,8	123	20.000	163	HIT250, HME 400, HIE 400 (HI-VG)
34200 0015	<b>3420 L200TB D 840</b>			•		45	2,8				
34200 0012	<b>3420 L200B D DIMD 840</b>	•	•			45	2,8				
34200 0027	<b>3420 L200TB D DIMD 840</b>	•		•		45	2,8				
34300 0014	<b>3430 L300B D 840</b>		•			45	4,0	195	30.000	154	HIE400 (HS-VG), HIT400
34300 0017	<b>3430 L300TB D 840</b>			•		45	4,0				
34300 0021	<b>3430 L300T D 840</b>				•	45	4,0				
34300 0016	<b>3430 L300B D DIMD 840</b>	•	•			45	4,0				
34300 0024	<b>3430 L300TB D DIMD 840</b>	•		•		45	4,0				
34300 0025	<b>3430 L300T D DIMD 840</b>	•			•	45	4,0				

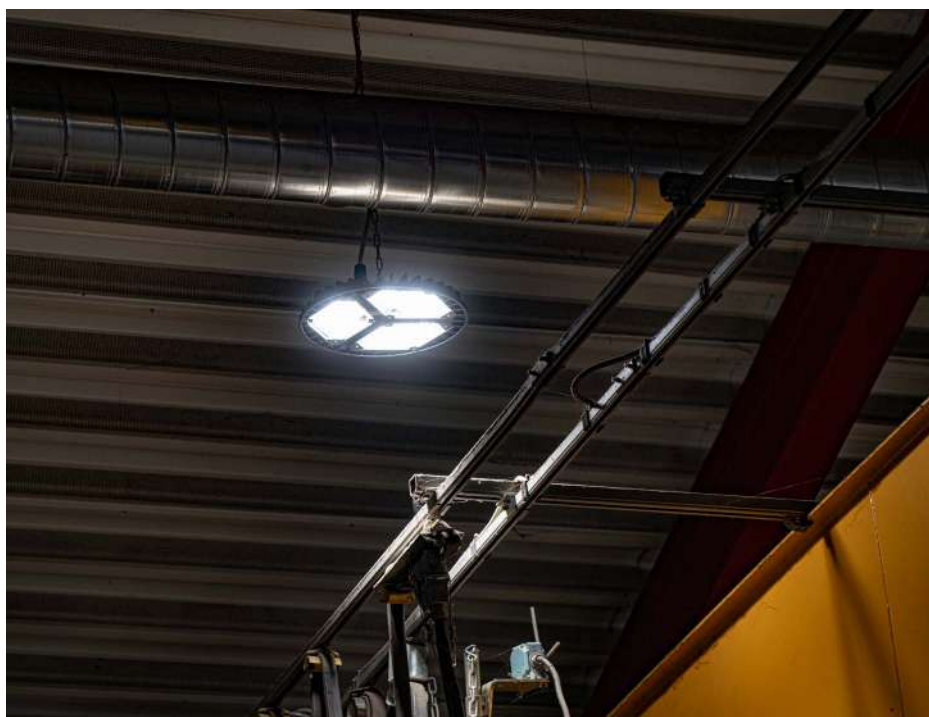
3430...



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

BestSelect – a selection of tried-and-tested SCHUCH luminaires for your everyday needs. More at: [www.schuch.de/BestSelect](http://www.schuch.de/BestSelect)

High Bay Fittings

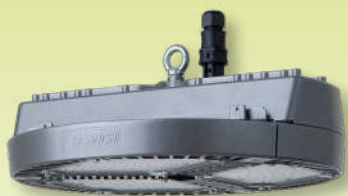


## Accessories / Spare Parts

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



### Applications:

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

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).

### 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.

**Connection:** 3-pole (DIMD 5-pole) quick-connector (**FastConnect**), plug mounted to the housing, socket included.  
**Mounting:** 1-point suspension, eyelet included.

**ECCG-housing:** Cast aluminium

### Technical Data:

**LED module:** 4,000 K or 5,000 K, CRI > 80, service life  $L_{90} > 50,000$  h at 25 °C ambient temperature, service life  $L_{70} > 100,000$ h at max. ambient temperature  
**ECCG:** 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

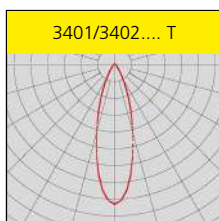
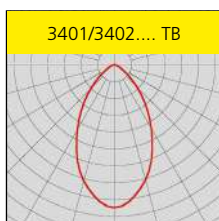
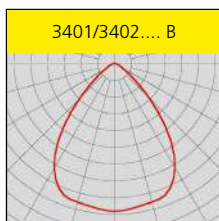
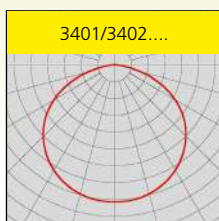
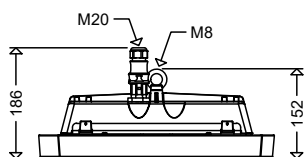
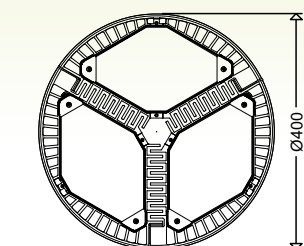
### Options:

- 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)
- dimming function via DALI2 interface, compatible with LIMAS Line wired Light Management System (DIMD)
- constant luminous flux function (CL)
- radio-controlled Light Management System for industrial indoor areas (LIMAS Air)

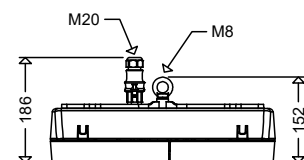
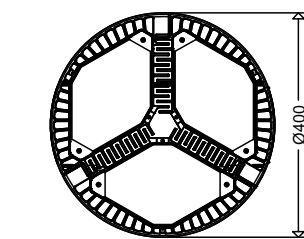
### General product highlights:

- 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
- sustainable, control gear and LED-module replaceable by qualified personnel on-site

3401... G3



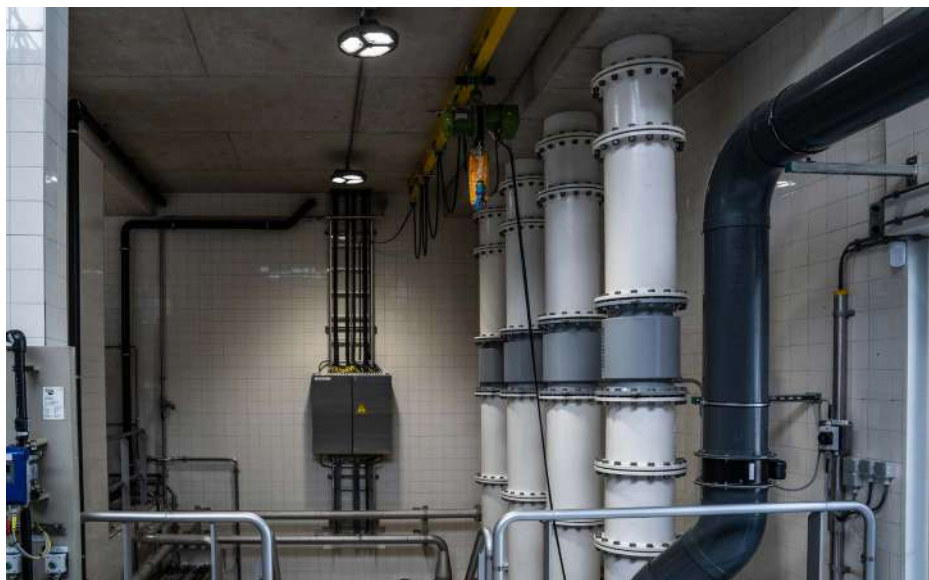
3402... G3



! 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	dimming	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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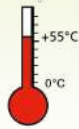
## 3401... G3



### colour temperature 4.000K (light colour 840)

34017 0001	3401 L100 G3	•				55	6,3
34017 0002	3401 L100B G3	•				55	6,3
34017 0003	3401 L100TB G3		•			55	6,3
34017 0004	3401 L100 G3 DIMD	•	•			55	6,3
34017 0005	3401 L100B G3 DIMD	•	•			55	6,3
34017 0006	3401 L100TB G3 DIMD	•	•			55	6,3

61	10.000	164	HME 250
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### colour temperature 5.000K (light colour 850)

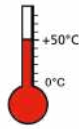
34017 0013	3401 L100 G3 850	•				55	6,3
34017 0014	3401 L100B G3 850	•				55	6,3
34017 0015	3401 L100TB G3 850		•			55	6,3
34017 0016	3401 L100 G3 DIMD 850	•	•			55	6,3
34017 0017	3401 L100B G3 DIMD 850	•	•			55	6,3
34017 0018	3401 L100TB G3 DIMD 850	•	•			55	6,3

61	10.000	164	HME 250
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### colour temperature 4.000K (light colour 840)

34017 0007	3401 L200 G3	•				50	6,3
34017 0008	3401 L200B G3	•				50	6,3
34017 0009	3401 L200TB G3		•			50	6,3
34017 0010	3401 L200 G3 DIMD	•	•			50	6,3
34017 0011	3401 L200B G3 DIMD	•	•			50	6,3
34017 0012	3401 L200TB G3 DIMD	•	•			50	6,3

123	20.000	163	HIT 250, HME 400, HIE 400 (HS-VG)
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### colour temperature 5.000K (light colour 850)

34017 0019	3401 L200 G3 850	•				50	6,3
34017 0020	3401 L200B G3 850	•				50	6,3
34017 0021	3401 L200TB G3 850		•			50	6,3
34017 0022	3401 L200 G3 DIMD 850	•	•			50	6,3
34017 0023	3401 L200B G3 DIMD 850	•	•			50	6,3
34017 0024	3401 L200TB G3 DIMD 850	•	•			50	6,3

123	20.000	163	HIT 250, HME 400, HIE 400 (HS-VG)
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\* The given information is for rough orientation only. In each individual case a lighting calculation is necessary. (VG = ballast)

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

Article no.	Type	dimming	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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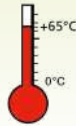


## 3402... G3

### colour temperature 4.000K (light colour 840)

34012 0023	3402 L100 G3		•			65	6,5
34012 0025	3402 L100B G3		•			65	6,5
34012 0027	3402 L100TB G3			•		65	6,5
34012 0024	3402 L100 G3 DIMD	•	•			65	6,5
34012 0026	3402 L100B G3 DIMD	•	•			65	6,5
34012 0028	3402 L100TB G3 DIMD	•		•		65	6,5

61	10.000	164	HME 250
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### colour temperature 5.000K (light colour 850)

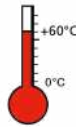
34012 0001	3402 L100 G3 850		•			65	6,5
34012 0003	3402 L100B G3 850		•			65	6,5
34012 0005	3402 L100TB G3 850			•		65	6,5
34012 0002	3402 L100 G3 DIMD 850	•	•			65	6,5
34012 0004	3402 L100B G3 DIMD 850	•	•			65	6,5
34012 0006	3402 L100TB G3 DIMD 850	•		•		65	6,5

61	10.000	164	HME 250
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### colour temperature 4.000K (light colour 840)

34012 0029	3402 L200 G3		•			60	6,5
34012 0031	3402 L200B G3		•			60	6,5
34012 0033	3402 L200TB G3			•		60	6,5
34012 0035	3402 L200T G3				•	60	6,5
34012 0030	3402 L200 G3 DIMD	•	•			60	6,5
34012 0032	3402 L200B G3 DIMD	•	•			60	6,5
34012 0034	3402 L200TB G3 DIMD	•		•		60	6,5
34012 0036	3402 L200T G3 DIMD	•			•	60	6,5

123	20.000	163	HIT 250, HME 400, HIE 400 (HS-VG)
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### colour temperature 5.000K (light colour 850)

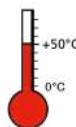
34012 0007	3402 L200 G3 850		•			60	6,5
34012 0009	3402 L200B G3 850		•			60	6,5
34012 0011	3402 L200TB G3 850			•		60	6,5
34012 0013	3402 L200T G3 850				•	60	6,5
34012 0008	3402 L200 G3 DIMD 850	•	•			60	6,5
34012 0010	3402 L200B G3 DIMD 850	•	•			60	6,5
34012 0012	3402 L200TB G3 DIMD 850	•		•		60	6,5
34012 0014	3402 L200T G3 DIMD 850	•			•	60	6,5

123	20.000	163	HIT 250, HME 400, HIE 400 (HS-VG)
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### colour temperature 4.000K (light colour 840)

34012 0037	3402 L300 G3		•			50	6,7
34012 0039	3402 L300B G3		•			50	6,7
34012 0041	3402 L300TB G3			•		50	6,7
34012 0043	3402 L300T G3				•	50	6,7
34012 0038	3402 L300 G3 DIMD	•	•			50	6,7
34012 0040	3402 L300B G3 DIMD	•	•			50	6,7
34012 0042	3402 L300TB G3 DIMD	•		•		50	6,7
34012 0044	3402 L300T G3 DIMD	•			•	50	6,7

190	30.000	158	HIE 400 (HS-VG), HIT 400
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### colour temperature 5.000K (light colour 850)

34012 0015	3402 L300 G3 850		•			50	6,7
34012 0017	3402 L300B G3 850		•			50	6,7
34012 0019	3402 L300TB G3 850			•		50	6,7
34012 0021	3402 L300T G3 850				•	50	6,7
34012 0016	3402 L300 G3 DIMD 850	•	•			50	6,7
34012 0018	3402 L300B G3 DIMD 850	•	•			50	6,7
34012 0020	3402 L300TB G3 DIMD 850	•		•		50	6,7
34012 0022	3402 L300T G3 DIMD 850	•			•	50	6,7

190	30.000	158	HIE 400 (HS-VG), HIT 400
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\* The given information is for rough orientation only. In each individual case a lighting calculation is necessary. (VG = ballast)

Article no.	Type	dimmable	Wide beam	Narrow wide beam	Tmax [°C]	Weight [kg] (without packing material)	Connected load [W]	Luminous flux [lm] <sup>1)</sup>	Light output [lm/W]	Substitute for *
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## 3402... G3 VARIO



### Design:

Same as type 3402... G3 but: With a switch for for variable adjustment of the luminous flux in the luminaire. The connected load will change depending on the setting of the luminous flux.

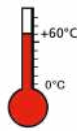
### Product highlights of the VARIO version:

- 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)



### colour temperature 4.000K (light colour 840)

34014 0001	<b>3402 L200 G3 VARIO</b>	•	60	6,5	70 - 123	11.430 - 20.000	163	HME 250 - HIT 250, HME 400, HIE 400 (HI-VG)
34014 0002	<b>3402 L200B G3 VARIO</b>	•	60	6,5				
34014 0003	<b>3402 L200TB G3 VARIO</b>	•	60	6,5				

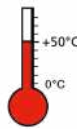


### colour temperature 5.000K (light colour 850)

34014 0007	<b>3402 L200 G3 VARIO 850</b>	•	60	6,5	70 - 123	11.430 - 20.000	163	HME 250 - HIT 250, HME 400, HIE 400 (HI-VG)
34014 0008	<b>3402 L200B G3 VARIO 850</b>	•	60	6,5				
34014 0009	<b>3402 L200TB G3 VARIO 850</b>	•	60	6,5				

### colour temperature 4.000K (light colour 840)

34014 0004	<b>3402 L300 G3 VARIO</b>	•	50	6,7	109 - 190	17.140 - 30.000	158	HIT 250, HME 400, HIE 400 (HI-VG) - HIE 400 (HS-VG), HIT 400
34014 0005	<b>3402 L300B G3 VARIO</b>	•	50	6,7				
34014 0006	<b>3402 L300TB G3 VARIO</b>	•	50	6,7				



### colour temperature 5.000K (light colour 850)

34014 0010	<b>3402 L300 G3 VARIO 850</b>	•	50	6,7	109 - 190	17.140 - 30.000	158	HIT 250, HME 400, HIE 400 (HI-VG) - HIE 400 (HS-VG), HIT 400
34014 0011	<b>3402 L300B G3 VARIO 850</b>	•	50	6,7				
34014 0012	<b>3402 L300TB G3 VARIO 850</b>	•	50	6,7				

Factory setting L200: 123 W; replaces approx. ca. HIT 250  
 Factory setting L300: 190 W; replaces approx. HIT 400

1) possible setting range



Foto: Rosoriginal, Alphen aan den Rijn

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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## NEW RFL - Ready for Light Management Systems

### Design:

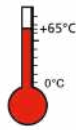
Same as standard version, but prepared for the subsequent use of a Light Management System. Integrated sockets allows retrofitting of Light Management components without tools.

### Product highlights:

- standardised Zhaga Book 18 compliant sockets with D4i control gear
- subsequent use of a lighting management system possible at any time
- tool-free, quick assembly of the Light Management System components



Available on request with ESG cover, T-optics, and in light color 850.



## 3402... G3 RFL0U



with a socket on the top and bottom side of the luminaire

colour temperature 4.000K (light colour 840)

34013 0046	3402 L100B G3 RFLSOU	•	65	6,5	61	10.000	164	HME250
34013 0047	3402 L100TB G3 RFLSOU	•	65	6,5				

colour temperature 5.000K (light colour 850)

34013 0057	3402 L100B G3 850 RFLSOU	•	65	6,5	61	10.000	164	HME250
34013 0058	3402 L100TB G3 850 RFLSOU	•	65	6,5				

colour temperature 4.000K (light colour 840)

34013 0049	3402 L200B G3 RFLSOU	•	60	6,5	123	20.000	163	HIT250, HME400, HIE400 (HS-VG)
34013 0050	3402 L200TB G3 RFLSOU	•	60	6,5				

colour temperature 5.000K (light colour 850)

34013 0060	3402 L200B G3 850 RFLSOU	•	60	6,5	123	20.000	163	HIT250, HME400, HIE400 (HS-VG)
34013 0061	3402 L200TB G3 850 RFLSOU	•	60	6,5				

colour temperature 4.000K (light colour 840)

34013 0053	3402 L300B G3 RFLSOU	•	50	6,7	190	30.000	158	HIE400 (HS-VG), HIT400
34013 0054	3402 L300TB G3 RFLSOU	•	50	6,7				

colour temperature 5.000K (light colour 850)

34013 0064	3402 L300B G3 850 RFLSOU	•	50	6,7	190	30.000	158	HIE400 (HS-VG), HIT400
34013 0065	3402 L300TB G3 850 RFLSOU	•	50	6,7				

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

RFL LIMAS Air HUB TR



LIMAS Air TAST INTER UP max 4 KONT



LIMAS Air TAST UP max 4 KONT



## Control components - for smart lighting control LIMAS Air

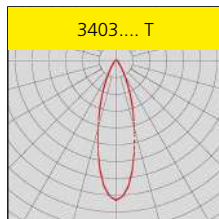
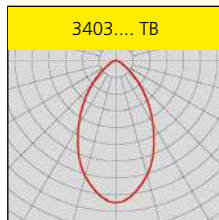
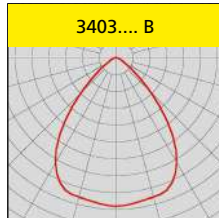
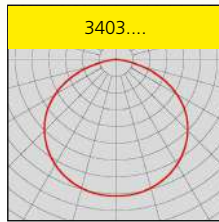
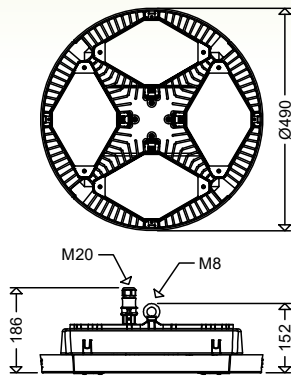
Article No.	Type	
90546 9013	RFL LIMAS Air HUB TRI	Light management controller (2.4 GHz mesh network) with radio antenna and RFL base.
90547 9009	LIMAS Air TAST INTER UP max 4 KONT	Push-button interface for connecting up to 4 analogue push-button contacts, mounting in flush-mounted box/branch box.
90547 9011	LIMAS Air TAST UP max 4 KONT	Battery-free quadruple wireless pushbutton, pressing the pushbutton generates energy to supply the push-button electronics.

## Accessories / Spare Parts

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

**NEW**

## TRIANO L Generation 3 LED High Bay Fitting Series 3403... G3



### 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  $L_{90} > 50,000$  h at 25 °C ambient temperature, service life  $L_{70} > 100,000$ 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)
- radio-controlled Light Management System for industrial indoor areas (LIMAS Air)

### 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
- 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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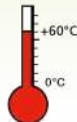
## 3403... G3



### colour temperature 4.000K (light colour 840)

34032 0017	3403 L270 G3		•			60	7,5
34032 0019	3403 L270B G3		•			60	7,5
34032 0021	3403 L270TB G3			•		60	7,5
34032 0023	3403 L270T G3				•	60	7,5
34032 0018	3403 L270 G3 DIMD	•	•			60	7,5
34032 0020	3403 L270B G3 DIMD	•	•			60	7,5
34032 0022	3403 L270TB G3 DIMD	•		•		60	7,5
34032 0024	3403 L270T G3 DIMD	•			•	60	7,5

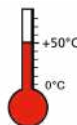
166	27.000	163	HIE 400 (HS-VG), HIT 400
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### colour temperature 5.000K (light colour 850)

34032 0001	3403 L270 G3 850		•			60	7,5
34032 0003	3403 L270B G3 850		•			60	7,5
34032 0005	3403 L270TB G3 850			•		60	7,5
34032 0007	3403 L270T G3 850				•	60	7,5
34032 0002	3403 L270 G3 DIMD 850	•	•			60	7,5
34032 0004	3403 L270B G3 DIMD 850	•	•			60	7,5
34032 0006	3403 L270TB G3 DIMD 850	•		•		60	7,5
34032 0008	3403 L270T G3 DIMD 850	•			•	60	7,5

166	27.000	163	HIE 400 (HS-VG), HIT 400
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### colour temperature 4.000K (light colour 840)

34032 0025	3403 L400 G3		•			50	8,0
34032 0027	3403 L400B G3		•			50	8,0
34032 0029	3403 L400TB G3			•		50	8,0
34032 0031	3403 L400T G3				•	50	8,0
34032 0026	3403 L400 G3 DIMD	•	•			50	8,0
34032 0028	3403 L400B G3 DIMD	•	•			50	8,0
34032 0030	3403 L400TB G3 DIMD	•		•		50	8,0
34032 0032	3403 L400T G3 DIMD	•			•	50	8,0

250	40.000	160	HME 700, HIT 400
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### colour temperature 5.000K (light colour 850)

34032 0009	3403 L400 G3 850		•			50	8,0
34032 0011	3403 L400B G3 850		•			50	8,0
34032 0014	3403 L400TB G3 850			•		50	8,0
34032 0015	3403 L400T G3 850				•	50	8,0
34032 0010	3403 L400 G3 DIMD 850	•	•			50	8,0
34032 0012	3403 L400B G3 DIMD 850	•	•			50	8,0
34032 0013	3403 L400TB G3 DIMD 850	•		•		50	8,0
34032 0016	3403 L400T G3 DIMD 850	•			•	50	8,0

250	40.000	160	HME 700, HIT 400
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\* The given information is for rough orientation only. In each individual case a lighting calculation is necessary. (VG = ballast)



## Accessories / Spare Parts

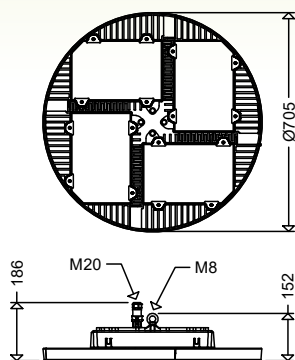
Article no.	Type	
34011 9001	<b>ABD 3401</b>	cover, clear safety glass pane (1 segment), for 3401..., 3402..., 3403..., 3410..., 3420..., 3430...
34011 9003	<b>ABD 3401 PRA</b>	cover, clear PMMA disc with outer prisms (1 segment), for 3401..., 3402..., 3403..., 3410..., 3420..., 3430...
34011 9002	<b>ABD 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...

**NEW**

# TRIANO XL Generation 3

## LED High Bay Fitting

### Series 3405... G3

**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  $L_{90} > 50,000$  h at 25 °C ambient temperature, service life  $L_{70} > 100,000$  h at max. ambient temperature, Zhaga compliant

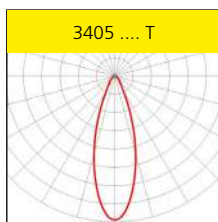
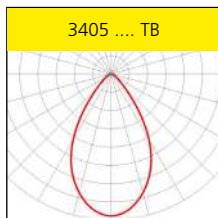
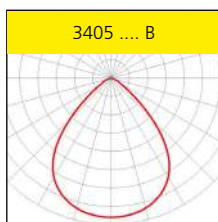
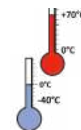
**ECG:** 220-240 V, 50/60 Hz, Surge voltage resistance 4 kV, overload and short circuit protection.

**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)
- radio-controlled Light Management System for industrial indoor areas (LIMAS Air)

**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
- sustainable, control gear and LED-module replaceable by qualified personnel on-site
- GreenLine luminaire, outstanding sustainable design

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	dimming	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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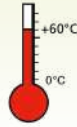
## 3405... G3



### colour temperature 4.000K (light colour 840)

34052 0003	3405 L320B G3		•			60	15,6
34052 0005	3405 L320TB G3			•		60	15,6
34052 0007	3405 L320T G3				•	60	15,6
34052 0004	3405 L320B G3 DIMD	•	•			60	15,6
34052 0006	3405 L320TB G3 DIMD	•		•		60	15,6
34052 0008	3405 L320T G3 DIMD	•			•	60	15,6

190 32.000 168 HIT 400



### colour temperature 5.000K (light colour 850)

34052 0027	3405 L320B G3 850		•			60	15,6
34052 0029	3405 L320TB G3 850			•		60	15,6
34052 0031	3405 L320T G3 850				•	60	15,6
34052 0028	3405 L320B G3 DIMD 850	•	•			60	15,6
34052 0030	3405 L320TB G3 DIMD 850	•		•		60	15,6
34052 0032	3405 L320T G3 DIMD 850	•			•	60	15,6

190 32.000 168 HIT 400

### colour temperature 4.000K (light colour 840)

34052 0011	3405 L450B G3		•			60	15,6
34052 0013	3405 L450TB G3			•		60	15,6
34052 0015	3405 L450T G3				•	60	15,6
34052 0012	3405 L450B G3 DIMD	•	•			60	15,6
34052 0014	3405 L450TB G3 DIMD	•		•		60	15,6
34052 0016	3405 L450T G3 DIMD	•			•	60	15,6

280 45.000 161 HIT 400, HME 700

### colour temperature 5.000K (light colour 850)

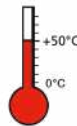
34052 0035	3405 L450B G3 850		•			60	15,6
34052 0037	3405 L450TB G3 850			•		60	15,6
34052 0039	3405 L450T G3 850				•	60	15,6
34052 0036	3405 L450B G3 DIMD 850	•	•			60	15,6
34052 0038	3405 L450TB G3 DIMD 850	•		•		60	15,6
34052 0040	3405 L450T G3 DIMD 850	•			•	60	15,6

280 45.000 161 HIT 400, HME 700

### colour temperature 4.000K (light colour 840)

34052 0019	3405 L600B G3		•			50	15,6
34052 0021	3405 L600TB G3			•		50	15,6
34052 0023	3405 L600T G3				•	50	15,6
34052 0020	3405 L600B G3 DIMD	•	•			50	15,6
34052 0022	3405 L600TB G3 DIMD	•		•		50	15,6
34052 0024	3405 L600T G3 DIMD	•			•	50	15,6

392 60.000 153 2 x HIT 400, HME 1000



### colour temperature 5.000K (light colour 850)

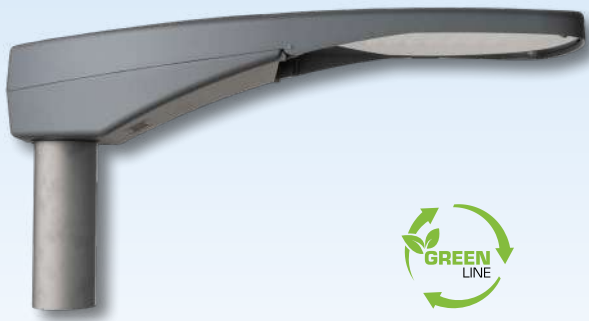
34052 0043	3405 L600B G3 850		•			50	15,6
34052 0045	3405 L600TB G3 850			•		50	15,6
34052 0047	3405 L600T G3 850				•	50	15,6
34052 0044	3405 L600B G3 850 DIMD	•	•			50	15,6
34052 0046	3405 L600TB G3 850 DIMD	•		•		50	15,6
34052 0048	3405 L600T G3 850 DIMD	•			•	50	15,6

392 60.000 153 2 x HIT 400, HME 1000

\* 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 9011	<b>ABD 3405</b>	cover, clear safety glass pane, for 3405...,



## CAMINO LED Outdoor Light Fitting Series 48... / 47...

### Applications:

Residential streets, by-roads, traffic-calmed zones, parks, walkways and cycle tracks, pedestrian zones, parks, green spaces, gateways, main streets, roundabouts, factory streets in industrial plants, car parks etc.

### Design:

**Housing:** Die-cast aluminium, 2-parts, powder coated in DB 702 (mica-iron paint, grey). **Upper section** with LED-Module, optics, glass cover and ECG, hinged and detachable. **Lower section** with pole mounting system, adjustment of inclination, cable retainer, cable entry with pressure compensation system.

**Glass cover:** Flat safety glass, impact resistance IK09.

**Light distribution:** Asymmetrical wide beam

**Connection:** With isolating plug connection with cable relief.

**Universal pole mounting device:** Die-cast aluminium, for post top mounting Ø 60/76 mm and side entry mounting Ø 60 mm. For side entry mounting Ø 42 mm, separate reducing accessories are required (see accessories / spare parts).

**Inclination:** Post top mounting 0°, 5° and 10° (factory setting 0°). Side entry mounting 0°, -5°, -10° and -15° depending on inclination of the cantilever.

### Electrical design:

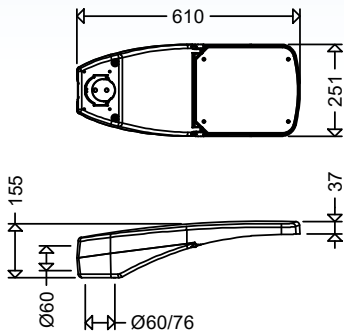
**LED module:** 4,000 K or 3,000 K,  $R_a > 70$ , service life  $L_{90} > 100,000$  h, Zhaga compliant

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

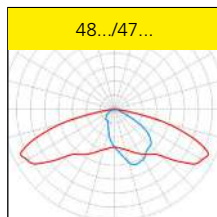
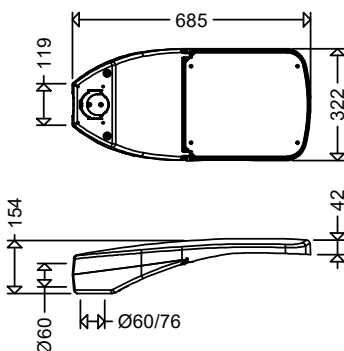
### Options:

- 2,200 K; light colour (722)
- 1,800 K; light colour (518)
- asymmetrical beam (A), plane surface floodlight-optics
- asymmetrical extremely wide beam (RVWX), for illuminating cycle paths
- asymmetrical wide beam (ABL)
- special painting in RAL colours
- protection class I (SKI)
- seawater-resistant version
- bird deterrence
- for connection to a central power supply system (ZB)
- variable adjustable luminous flux via app (NFC)
- 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)
- adaptive Light EcoTune
- additional overvoltage protection
- with backside light shielding (HA)
- inrush current limiter

48...



47...



### Product highlights:

- durable, corrosion-resistant die-cast aluminium housing with flat surface without cooling fins
- excellent thermal management, long service life
- integrated pressure compensation system prevents condensation in the interior
- universal pole mounting system, foldable without tools, for post top or side entry mounting
- removable upper part of the housing allows a comfortable, time- and cost-saving mounting in 2 steps:  
**1st step:** Mount bottom part on the pole and connect the mains  
**2nd step:** Hinge upper part, connect isolating plug and shut the housing. **READY**
- adjustable inclination of the light fitting, no tools required
- homogeneous illumination due to the Multi-Layer-Technology
- eco-friendly, no light emission into the upper half-space, **ULOR=0**
- versions dimmable to 10% and with color temperature up to 3,000 K comply with **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 (see accessories in the data sheet).

Article no.	Type	Connected load [W]	Luminous flux [lm]	Luminous efficacy [lm/W]	Weight [kg] (without packing material)
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## 48... / 47...



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

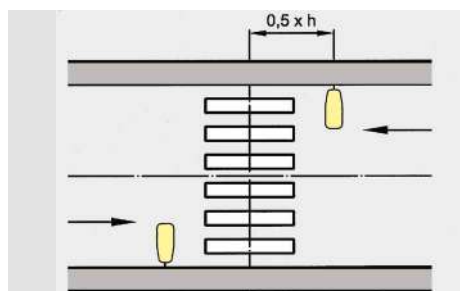
48001 0030	48 0801	9	1.510	168	7,0
48001 0045	48 0802	13	2.100	162	7,0
48001 0046	48 0803	18	2.840	158	7,0
48001 0005	48 1601	17	2.900	171	7,0
48001 0006	48 1602	25	4.050	162	7,0
48001 0007	48 1603	35	5.480	157	7,0
48001 0047	48 2401	26	4.470	172	7,1
48001 0048	48 2402	37	6.210	168	7,1
48001 0049	48 2403	53	8.340	157	7,4
48001 0015	48 3201	34	5.940	175	7,5
48001 0016	48 3202	50	8.280	166	7,5
48001 0017	48 3203	70	11.140	159	7,5
47000 0003	47 3201	34	6.020	177	10,2
47000 0009	47 3202	50	8.400	168	10,2
47000 0004	47 3203	70	11.360	162	10,2
47000 0005	47 4801	52	8.980	173	10,2
47000 0010	47 4802	75	12.500	167	10,2
47000 0047	47 4803	106	16.850	159	10,2
47000 0007	47 6401	69	11.850	172	10,3
47000 0011	47 6402	99	16.440	166	10,3
47000 0048	47 6403	140	22.030	157	10,3

### Outstanding mounting advantage



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

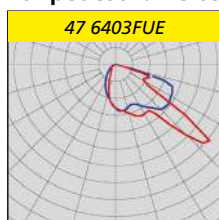
48001 0936	48 0801 730	9	1.430	159	7,0
48001 0391	48 0802 730	13	2.000	154	7,0
48001 0322	48 0803 730	18	2.700	150	7,0
48001 0099	48 1601 730	17	2.760	162	7,0
48001 0096	48 1602 730	25	3.850	154	7,0
48001 0097	48 1603 730	35	5.210	149	7,0
48001 0937	48 2401 730	26	4.250	163	7,1
48001 0143	48 2402 730	37	5.900	159	7,1
48001 0939	48 2403 730	53	7.920	149	7,4
48001 0120	48 3201 730	34	5.640	166	7,5
48001 0028	48 3202 730	50	7.870	157	7,5
48001 0018	48 3203 730	70	10.580	151	7,5
47000 0905	47 3201 730	34	5.720	168	10,2
47000 0100	47 3202 730	50	7.980	160	10,2
47000 0090	47 3203 730	70	10.790	154	10,2
47000 0383	47 4801 730	52	8.530	164	10,2
47000 0075	47 4802 730	75	11.880	158	10,2
47000 0076	47 4803 730	106	16.010	151	10,2
47000 0362	47 6401 730	69	11.260	163	10,3
47000 0270	47 6402 730	99	15.620	158	10,3
47000 0088	47 6403 730	140	20.930	150	10,3



## 47... FUE



### For pedestrian crossings or for object protection



#### Applications:

Pedestrian crossings, object protection, fence, apron, area illumination ...

#### Design:

Asymmetrical light distribution. Major light beam crosswise to longitudinal axis of the luminaire with limited backward light beam.

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

47000 0448	47 6403FUE	140	22.030	157	10,3
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### colour temperature 3.000K (light colour 730)

47000 0467	47 6403FUE 730	140	20.930	150	10,3
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All light fittings also available with connected cable (see accessories in the data sheet).

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



### Design:

Same as type 48... / 47... but: With a switch for for variable adjustment of the luminous flux in the luminaire. The connected load will change depending on the setting of the luminous flux.

### 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)

48001 0703	<b>48 L50 VARIO</b>	9 - 35	1.330 - 5.480	172	HST 35 - 2 x HST 70	7,5
48001 0750	<b>48 L100 VARIO</b>	16 - 70	2.730 - 11.140	177	HST 50 - HSE 150	7,6
47000 0366	<b>47 L100 VARIO</b>	16 - 70	2.760 - 11.360	180	HST 50 - HSE 150	10,2
47000 0364	<b>47 L150 VARIO</b>	24 - 106	4.130 - 16.850	173	2 x HME 80 - 2 x HME 250	10,2
47000 0365	<b>47 L210 VARIO</b>	32 - 140	5.460 - 22.030	171	2 x HST 70 - HME 400	10,3

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

48001 0701	<b>48 L50 VARIO 730</b>	9 - 35	1.260 - 5.210	163	HST 35 - 2 x HST 70	7,5
48001 0761	<b>48 L100 VARIO 730</b>	16 - 70	2.590 - 10.580	168	HST 50 - HSE 150	7,6
47000 0468	<b>47 L100 VARIO 730</b>	16 - 70	2.620 - 10.790	171	HST 50 - HSE 150	10,2
47000 0469	<b>47 L150 VARIO 730</b>	24 - 106	3.920 - 16.010	164	2 x HME 80 - 2 x HME 250	10,2
47000 0470	<b>47 L210 VARIO 730</b>	32 - 140	5.190 - 20.930	162	2 x HST 70 - HME 400	10,3

Factory setting L50: 18 W; replaces approx. HME 125, HST 70

Factory setting L100: 54 W; replaces approx. HME 250

1) possible setting range

Factory setting L150: 106 W; replaces approx. 2 x HME 250

Factory setting L210: 140 W; replaces approx. HME 400

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

BestSelect – a selection of tried-and-tested SCHUCH luminaires for your everyday needs. More at: [www.schuch.de/BestSelect](http://www.schuch.de/BestSelect)



All light fittings also available with connected cable (see accessories in the data sheet).

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

### Design:

Same as standard version, but prepared for the subsequent use of a Light Management System. Integrated sockets allows retrofitting of Light Management components without tools.

### Product highlights:

- standardised Zhaga Book 18 compliant sockets with D4i control gear
- subsequent use of a lighting management system possible at any time
- tool-free, quick assembly of the Light Management System components



## 48... / 47... RFLOU



### with a socket on the top and bottom side of the luminaire

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

48004 0009	48 0803 RFLOU	18	2.840	158	7,0
48004 0010	48 1603 RFLOU	35	5.480	157	7,0
48004 0011	48 2403 RFLOU	53	8.340	157	7,4
48004 0012	48 3203 RFLOU	70	11.140	159	7,2
47002 0007	47 3203 RFLOU	70	11.360	162	10,2
47002 0008	47 4803 RFLOU	106	16.850	159	10,2
47002 0009	47 6403 RFLOU	140	22.030	157	10,3

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

48004 0066	48 0803 730 RFLOU	18	2.700	150	7,0
48004 0047	48 1603 730 RFLOU	35	5.210	149	7,0
48004 0067	48 2403 730 RFLOU	53	7.920	149	7,4
48004 0068	48 3203 730 RFLOU	70	10.580	151	7,2
47002 0042	47 3203 730 RFLOU	70	10.790	154	10,2
47002 0043	47 4803 730 RFLOU	106	16.010	151	10,2
47002 0044	47 6403 730 RFLOU	140	20.930	150	10,3

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



### RFL LIMAS BM RAD HUB LPH max. 8m



### RFL LIMAS BM RAD MA LPH max. 10m



### RFL DS20 HUB 20lux ON/OFF



### RFL BM/DS IR HUB LPH max. 8m



### RFL BM/DS IR HUB LPH max. 12m



### LIMAS USB-Dongle



## System components

Article No.	Type	
90546 9010	RFL LIMAS HUB3 G2 GPS SIM	radio control with GPS antenna and photocell (twilight control) with integrated SIM card
90546 9014	RFL LIMAS HUB3 G2	radio control with photocell (twilight control)
90546 9011	RFL LIMAS BM RAD HUB LPH max. 8m	radio control with integrated radar motion sensors
90546 9012	RFL LIMAS BM RAD MA LPH max. 10m	radio control with integrated radar motion sensors for pole mounting
90546 9000	RFL DS20 HUB 20lux ON/OFF	twilight switch for autonomous control of RFLO luminaires
90546 9004	RFL BM/DS IR HUB LPH max. 8m	infrared motion sensor - can only be used in conjunction with RFL LIMAS HUB3 G2 and RFL LIMAS HUB3 G2 GPS SIM
90546 9018	RFL BM/DS IR HUB LPH max. 12m	infrared motion sensor / twilight switch - also for standalone operation

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

## Control components

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

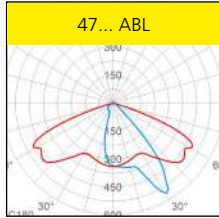
All light fittings also available with connected cable (see accessories in the data sheet).

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

**Applications:**  
Railway stations and platforms.

**Deutsche Bahn listing:**  
DB Station & Service AG  
List sheet number B 04.10.042



**Product highlights:**

- Deutsche Bahn listing
- easy installation, quick and convenient thanks to removable upper housing section
- economical operation, high light output
- future-proof by using standardized LED-modules (Zhaga)

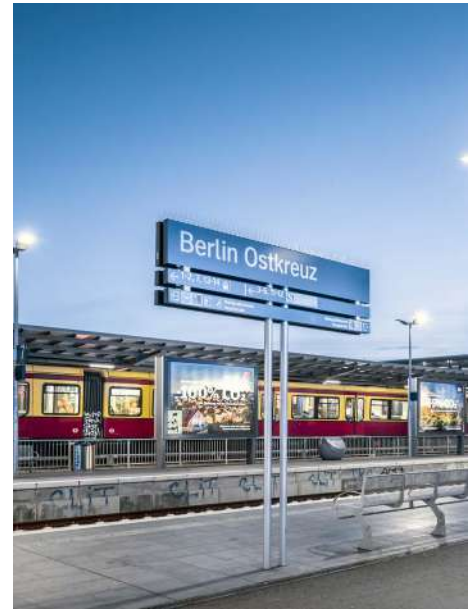


**colour temperature 4.000 K (light colour 740)**

47000 3000	<b>47 L29ABL CL DB</b>	14	2.300	164	10,1
47000 3002	<b>47 L34ABL CL DB</b>	15	2.700	180	10,1

**colour temperature 1.800 K (light colour 518)**

47000 3012	<b>47 L29ABL CL 518 DB</b>	25	2.300	92	10,1
47000 3014	<b>47 L34ABL CL 518 DB</b>	30	2.700	90	10,1



## Lighting of escape routes and outdoor assembly points

### ZB versions for connection to central emergency supply systems.

ZB versions of SCHUCH LED outdoor luminaires meet the requirements for emergency for emergency luminaires in accordance with EN 60598 Part 2-22 and can be used in safety lighting systems in accordance with DIN EN 50172 VDE 0108-100:2024-10 for the illumination of escape routes and outdoor assembly points in accordance with DIN EN 1838 and ASR A2.3.



The luminous flux in emergency mode can be selected between 10-100 %. Programming is carried out at the factory.

## Adaptive light in outdoor areas EcoTune luminaires from SCHUCH

Adaptive systems that allow outdoor lighting to be flexibly adjusted to changing situations offer many forward-looking solutions that take into account not only the safety of road users and the requirements of residents, but also the ecological aspects of night-time lighting.

### Changing the light color

Here, two different light colors are combined in one luminaire (e.g. 4,000 K and 2,200 K).

By changing the mixing ratio of the two light colors, the light emitted in the quieter evening and night hours can be changed from neutral white light to a warmer, more pleasant light. In the morning hours, the proportion of neutral light color is increased again, resulting in a brighter and higher-contrast light. The light can also be controlled in conjunction with motion sensors.

### Changing the light distribution

Two different optics with different light distributions are used here, which is intended to reduce glare on wet roads. Whether such a solution makes sense in individual cases can only be **discussed in a detailed consultation**.

**You can find more detailed information on the subject of adaptive light in our outdoor lighting catalog.**

### RZ 60/42 CAMINO



Pipe brackets for wall, pole and corner mounting, and post top brackets please see accessories in the data sheet.

## Accessories / Spare Parts

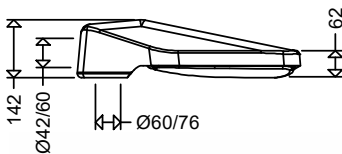
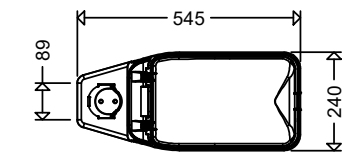
Article No.	Type	
48002 9000	<b>ABD 48</b>	cover, pane safety glass clear, for 48...
47001 9002	<b>ABD 47</b>	cover, pane safety glass clear, for 47...
90306 0004	<b>RZ 60/42 CAMINO</b>	adapter for mast top Ø 42 mm, black



Polyester housing



Die-cast aluminum housing!



## FILOS LED Outdoor Light Fitting with variable setting of the luminous flux Series 42... VARIO / 42AL... VARIO

### Applications:

Residential-, through traffic streets, footpaths and cycle tracks, traffic-calmed areas, factory streets, car parks, gateways etc.

### Design :

**Housing:** Glass fibre reinforced polyester resin, unpainted, or painting DB 702 (mica-iron).

**Housing for AL version:** Die-cast aluminium, DB 702.

**Diffuser:** UV-stabilized PC, clear, hingeable and detachable.

**Gear tray:** Aluminium, with LED modul, optics and all electrical components in compact unit protected against accidental

contact, isolating plug connection and cable retainer.

**Switch** for setting the luminous flux of the luminaire.

**Central closing:** Stainless steel.

**Light distribution:** Asymmetrical wide beam.

**Universal pole mounting device:** Die-cast aluminium, for post top mounting Ø 60/76 mm and side entry mounting Ø 42/60 mm x 100 mm.

**Inclination:** Side entry mounting 0°, -5°, -10° and -15° depending on inclination of the cantilever.

### 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)

- asymmetrical beam (A), plane surface floodlight-optics

- asymmetrical extremely wide beam (RWX), for illuminating cycle paths

- special painting in RAL colours

- protection class I (SKI)

- seawater-resistant version

- 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)

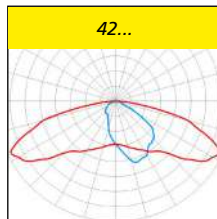
- power reduction without control phase (LA)

- constant luminous flux function (CL)

- additional overvoltage protection

- with backside light shielding (HA)

- inrush current limiter



### Product highlights:

- 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
- economical storage due to standardisation
- long-life, robust housing made of glass fibre reinforced polyester (version 42... VARIO)
- long-life, corrosion-resistant die-cast aluminium housing with smooth surface without cooling fins (version 42AL... VARIO)
- integrated pressure compensation system prevents condensation in the interior
- protection of the LEDs against mechanical and electrostatic discharge due to sandwich-design of gear tray and cover
- quick mounting due to
  - tool-free opening of the luminaire by means of a central toggle clamp made of stainless steel
  - gear tray hingeable and detachable
  - removable multi-function cable entry enables pre-assembly of the connection cable
  - integrated universal pole mounting system (side entry mounting Ø 60 mm or post top mounting Ø 60/76 mm)
- homogeneous illumination due to the Multi-Layer-Technology
- eco-friendly, ULOR=0 %
- 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 (Version 42AL...)

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 (see accessories in the data sheet).



All luminaires also available with luminous flux adjustment via smartphone app (NFC version).



unpainted



Painted DB 702 (mica-iron)

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



### Polyester housing

The luminous flux is variably adjustable. The Connected load will change depending on the setting of the luminous flux.

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

42008 0001	<b>42 L50 VARIO</b>	9 - 35	1.400 - 5.670	181	HST 35 - 2 x HST 70	4,0
42008 0003	<b>42 L80 VARIO</b>	16 - 50	2.840 - 8.370	185	HST 50 - HME 250	4,1
42008 0501	<b>42 L50 VARIO DB702</b>	9 - 35	1.400 - 5.670	181	HST 35 - 2 x HST 70	4,0
42008 0503	<b>42 L80 VARIO DB702</b>	16 - 50	2.840 - 8.370	185	HST 50 - HME 250	4,1

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

42008 0002	<b>42 L50 VARIO 730</b>	9 - 35	1.330 - 5.390	172	HST 35 - 2 x HST 70	4,0
42008 0004	<b>42 L80 VARIO 730</b>	16 - 50	2.700 - 7.950	176	HST 50 - HME 250	4,1
42008 0502	<b>42 L50 VARIO 730 DB702</b>	9 - 35	1.330 - 5.390	172	HST 35 - 2 x HST 70	4,0
42008 0504	<b>42 L80 VARIO 730 DB702</b>	16 - 50	2.700 - 7.950	176	HST 50 - HME 250	4,1

BestSelect – a selection of tried-and-tested SCHUCH luminaires for your everyday needs. More at: [www.schuch.de/BestSelect](http://www.schuch.de/BestSelect)



## 42AL... VARIO



### Die-cast aluminium housing

The luminous flux is variably adjustable. The Connected load will change depending on the setting of the luminous flux.

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

42003 0001	<b>42AL L50 VARIO</b>	9 - 35	1.400 - 5.670	181	HST 35 - 2 x HST 70	4,9
42003 0026	<b>42AL L80 VARIO</b>	16 - 50	2.840 - 8.370	185	HST 50 - HME 250	4,9

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

42003 0008	<b>42AL L50 VARIO 730</b>	9 - 35	1.330 - 5.390	172	HST 35 - 2 x HST 70	4,9
42003 0020	<b>42AL L80 VARIO 730</b>	16 - 50	2.700 - 7.950	176	HST 50 - HME 250	4,9

Factory setting L50: 18 W; replaces approx. ca. HME 125, HST 70

1) possible setting range

Factory setting L80: 50 W; replaces approx. HME 250

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

## Welded Aluminium Standard Pole Arm Carrier Series 4871

### Applications:

For mounting outdoor light fittings on flat walls and corners of buildings.

### Design:

Aluminium plate 4 mm thick, powder coated grey

(RAL 7035) or mica-iron (DB 702), with eight fixing holes Ø 9mm and pole arm Ø 60 mm (100 mm long).

### Options:

Special painting in RAL colours (SL)

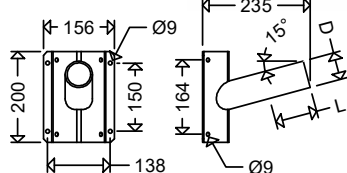
Outdoor Light Fittings



4871 RAL 7035



4871 DB 702



## 4871

Article no.	Type	D	L	Weight ca. [kg]
48700 0002	<b>4871 RAL7035</b>	60	100	0,7
48700 0506	<b>4871 DB702</b>	60	100	0,7

BestSelect – a selection of tried-and-tested SCHUCH articles for your everyday needs. More at: [www.schuch.de/BestSelect](http://www.schuch.de/BestSelect)

## Accessories / Spare Parts

Article no.	Type	
42001 9003	<b>ABD 42 PC</b>	cover, diffuser PC clear, UV stabilized, clear, for 42...

Pipe brackets for wall, pole and corner mounting, and post top brackets please see end of this chapter.

**NEW**

## LED Outdoor Light Fitting for low track gauges Series 131... nGgB



### Applications:

Deutsche Bahn railway tracks and industrial railway tracks with DB requirements.

### Deutsche Bahn listing:

DB Station & Service AG  
List sheet number B 04.10.042

### Design:

Housing: Stainless steel, powder-coated in DB 702

Diffuser: Frosted single-pane safety glass

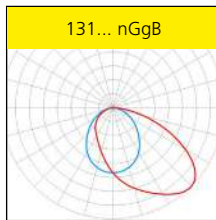
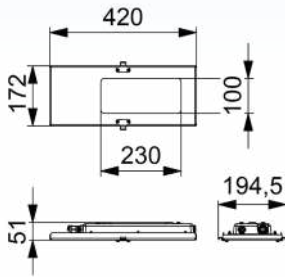
Light distribution: Asymmetrical beam

Connection: FastConnect quick connection plug

### Electrical design:

LED module: 4,000 K,  $R_a > 80$ , service life  $L_{90} > 100,000$  h

ECG: 24V DC constant voltage



Article no.	Type	Connected load [W]	Luminous flux [lm]	Luminous efficacy [lm/W]	Weight [kg] (without packing material)
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### 131 L09 nGgB DB



### Product highlights:

- Deutsche Bahn listing
- FastConnect quick connection plug
- prepared for mounting with clamp fasteners
- ECG accessible at ground level in the pole
- no light emission into the upper half-space (Dark Sky)
- sustainable, components replaceable
- future proof by using Zhaga-compliant LED-modules



### colour temperature 4.000 K (light colour 840)

13102 0001	131 L09 nGgB DB	7,8	877	112	2,4
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### ECG unit

90283 0020	EVG 2 131 L09 nGgB DB	EVG unit for connecting 2 luminaires 131 L09 nGgB DB
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Outdoor  
Light 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).

**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.

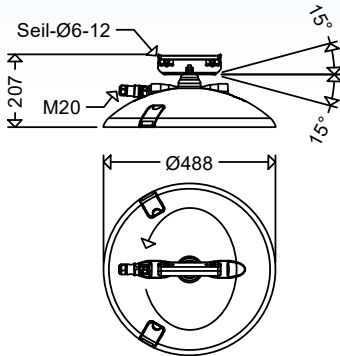
**Electrical components:** Wired ready for installation, disconnect plug-in connector

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

**Light distribution:** Symmetrical wide beam.

**Connection:** Quick connection plug (**FastConnect**), 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

– variable adjustable luminous flux via

app (NFC)

– dimming function via DALI2 interface,

compatible with LIMAS Line wired Light Management System (DIMD)

– power reduction with control phase (LR)

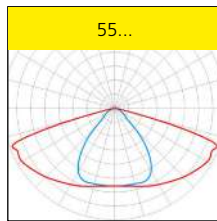
– power reduction without control phase (LA)

– constant luminous flux function (CL)

– additional overvoltage protection

– 3-point supporting bracket

– inrush current limiter



### 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 connection plug
- 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,  $ULOR=0$
- versions dimmable to 10% and with color temperature up to 3,000 K comply with 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 (see accessories in the data sheet).

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



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

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

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

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



All light fittings also available with connected cable (see accessories in the data sheet).

Article No.	Type	Connected load [W]	Luminous flux [lm <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 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

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 (see accessories in the data sheet).

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

### Design:

Same as standard version, but prepared for the subsequent use of a Light Management System. Integrated sockets allows retrofitting of Light Management components without tools.

### Product highlights:

- standardised Zhaga Book 18 compliant sockets with D4i control gear
- 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	55 1603 FC RFLO	35	6.070	173	7,1
55001 0003	55 3203 FC RFLO	70	12.080	173	7,2
55001 0005	55 4803 FC RFLO	106	16.730	158	7,4

colour temperature 3.000K (light colour 730)

55001 0002	55 1603 730 FC RFLO	35	5.770	165	7,1
55001 0004	55 3203 730 FC RFLO	70	11.480	164	7,2
55001 0006	55 4803 730 FC RFLO	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	RFL LIMAS HUB3 G2 GPS SIM	radio control with GPS antenna and photocell (twilight control) with integrated SIM card
90546 9014	RFL LIMAS HUB3 G2	radio control with photocell (twilight control)
90546 9000	RFL DS20 HUB 20lux ON/OFF	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

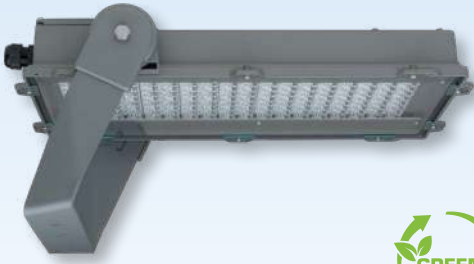
Article No.	Type	
90545 0001	LIMAS Dongle USB	enables programming/setup of LIMAS components on site using software and Windows operating system
90546 9010	RFL LIMAS HUB3 G2 GPS SIM	control element with photocell/ twilight switch, GPS antenna and SIM card

## Accessories / Spare Parts

Article no.	Type	
55010 0001	ABD 55	cover, pane safety glass clear, for 55...

**NEW**

## AREALO 2 LED Large-Area Spotlight Series 7950...



### 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 x M25 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:

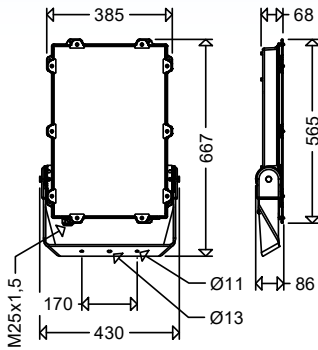
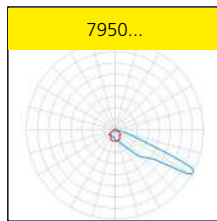
**LED module:** 4,000 K or 3,000 K, R<sub>a</sub> > 70, service life L<sub>90</sub> > 100,000 h, Zhaga compliant

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

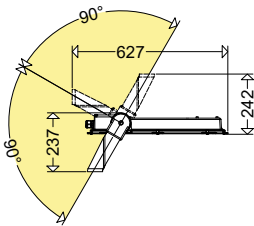
### Options:

- 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

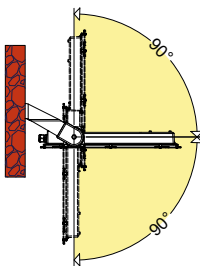
- dimming function via DALI2 interface (DIMD)
- power reduction with control phase (LR)
- constant luminous flux function (CL)
- compatible with LIMAS Line and LIMAS Air Light Management System



Swivel range



Standard Mounting



### 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 outlying electrical connection box
- homogeneous illumination due to the Multi-Layer-Technology
- eco-friendly, no light emission into the upper half-space, ULOR=0
- versions dimmable to 10% and with color temperature up to 3,000 K comply with 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 (see accessories in the data sheet).

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



### Version OP:

Additional overvoltage protection in the luminaire.

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

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

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

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

## RFL - Ready for Light Management Systems

### Design:

Same as standard version, but prepared for the subsequent use of a Light Management System. Integrated sockets allows retrofitting of Light Management components without tools.

### Product highlights:

- standardised Zhaga Book 18 compliant sockets with D4i control gear
- 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	7950 14404SP OP RFLSO	432	66.500	154	11,0
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### colour temperature 3.000K (light colour 730)

79501 0002	7950 14404SP 730 OP RFLSO	432	63.200	146	11,0
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RFL LIMAS Air HUB TR



LIMAS Air TAST INTER UP max 4 KONT



LIMAS Air TAST UP max 4 KONT

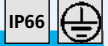


## Control components

Article No.	Type	
90546 9013	RFL LIMAS Air HUB TRI	Light management controller (2.4 GHz mesh network) with radio antenna and RFL base.
90547 9009	LIMAS Air TAST INTER UP max 4 KONT	Push-button interface for connecting up to 4 analogue push-button contacts, mounting in flush-mounted box/branch box.
90547 9011	LIMAS Air TAST UP max 4 KONT	Battery-free quadruple wireless pushbutton, pressing the pushbutton generates energy to supply the push-button electronics.

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



### Version:

Like 7950... SP OP but without ballasts (OV), separate ECG unit 7950 required.

Please order in combination.

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

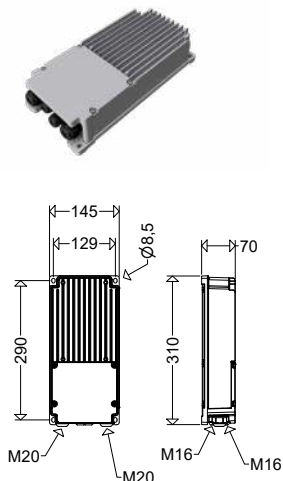
79502 0200	7950 14401SP OV	144	26.500	184	10,3
79502 0201	7950 14402SP OV	209	36.800	176	10,3
79502 0202	7950 14403SP OV	298	49.300	165	10,3
79502 0203	7950 14404SP OV	432	66.500	154	10,3

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

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

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

Typ 1 / Typ 2



## Internal pole mounting unit 7850 ME 1000

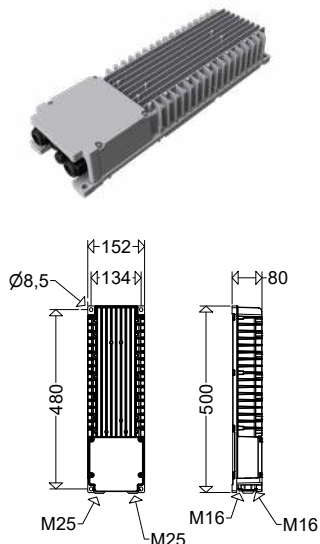


### Design:

ECG for direct mounting with 4 screws

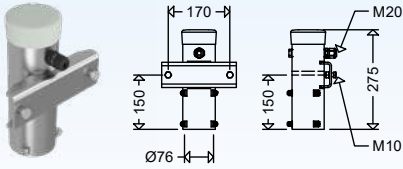
Connection: Direct connection of the cables in the connection compartment of the ECG; access to the connection compartment by loosening 4 screws.

Typ 4

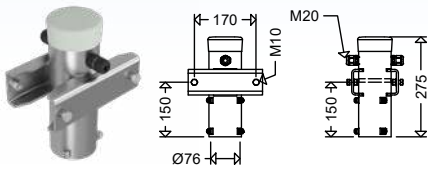


Article no.	Type		EVG	Weight [ca. kg] (without packaging)
79512 0001	EVG 7950 1 14401 OV	ECG unit for one luminaire 7950 14401 OV	Typ 1	3,1
79512 0002	EVG 7950 2 14401 OV	ECG unit for two luminaires 7950 14401 OV	Typ 1	3,1
79512 0003	EVG 7950 3 14401 OV	ECG unit for three luminaires 7950 14401 OV	Typ 1	3,1
79512 0004	EVG 7950 1 14402 OV	ECG unit for one luminaire 7950 14401 OV	Typ 1	3,1
79512 0005	EVG 7950 2 14402 OV	ECG unit for two luminaires 7950 14401 OV	Typ 1	3,1
79512 0006	EVG 7950 3 14402 OV	ECG unit for three luminaires 7950 14401 OV	Typ 2	3,4
79512 0007	EVG 7950 1 14403 OV	ECG unit for one luminaire 7950 14401 OV	Typ 1	3,1
79512 0008	EVG 7950 2 14403 OV	ECG unit for two luminaires 7950 14401 OV	Typ 1	3,1
79512 0009	EVG 7950 3 14403 OV	ECG unit for three luminaires 7950 14401 OV	Typ 2	3,4
79512 0010	EVG 7950 1 14404 OV	ECG unit for one luminaire 7950 14401 OV	Typ 1	3,1
79512 0011	EVG 7950 2 14404 OV	ECG unit for two luminaires 7950 14401 OV	Typ 2	3,4
79512 0012	EVG 7950 3 14404 OV	ECG unit for three luminaires 7950 14401 OV	Typ 4	6,4
79512 0013	EVG 7950 4 14404 OV	ECG unit for four luminaires 7950 14401 OV	2 x Typ 2	6,8

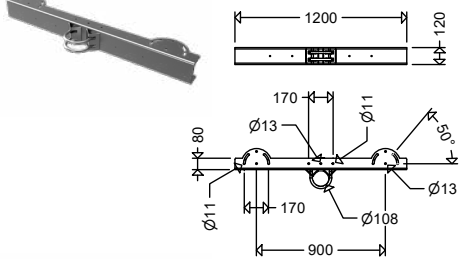
**Single mounting: MAU 1 76/170 M10**



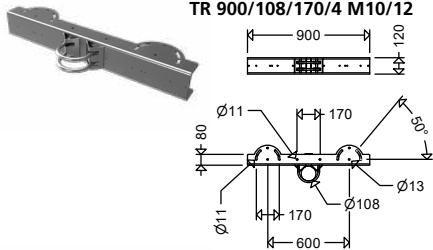
**Double mounting: MAU 2 76/170 M10**



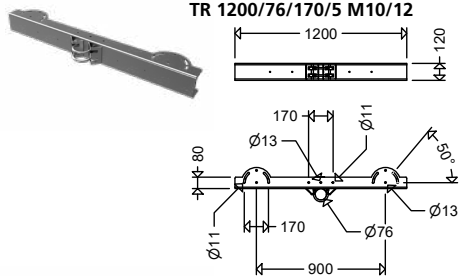
**TR 1200/108/170/5 M10/12**



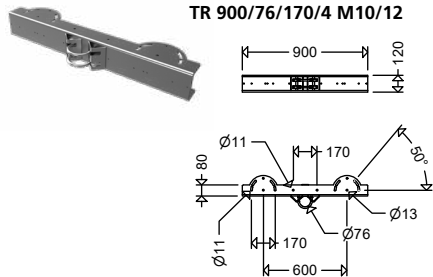
**TR 900/108/170/4 M10/12**



**TR 1200/76/170/5 M10/12**



**TR 900/76/170/4 M10/12**



**Accessories / Spare Parts**

Article no.	Type	
79510 0001	<b>ABD 7950</b>	cover, pane safety glas 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
90313 0003	<b>KV25 G BK</b>	plastic cable gland M25 x 1,5 black
79511 0003	<b>SD 7950 ST</b>	vibration absorbing suspension device for series 7950, galvanised steel
79511 0001	<b>TR 1200/108/170/5 M10/12</b>	Crossbar with 5 fastening options for floodlights on a pole
79511 0004	<b>TR 900/108/170/4 M10/12</b>	Crossbar with 4 fastening options for floodlights on a pole
79511 0006	<b>TR 1200/76/170/5 M10/12</b>	Crossbar with 5 fastening options for floodlights on a pole
79511 0007	<b>TR 900/76/170/4 M10/12</b>	Crossbar with 4 fastening options for floodlights on a pole
79511 0002	<b>VBOX 5 TR</b>	Distribution box for combining the connection cables of several AREALO 2 units. 6 loose cable glands, support plate and screws for direct attachment to the crossbar included in the scope of delivery.
79511 0005	<b>MABD 108</b>	Pole cover Ø 108 mm with strain relief and 4 cable entries
79511 0010	<b>BFSET M10/M12</b>	Fastening set for traverse mounting with 2 M10 screw connections 1 M12 screw connection
79511 0008	<b>BD 7950</b>	Vogelabwehr Edelstahl für 7950

All pole fastenings made of galvanized steel. Painting in any RAL colour for additional charge.



## 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	≥ 500 lx	≥ 0.7
II	≥ 200 lx	≥ 0.6
III	≥ 75 lx	≥ 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.





## Dustproof/Waterproof LED Emergency Light Fitting with Diffuser Series 163... G2 / 163... G2 VARIO

### Applications:

In humid, wet and dusty rooms as replacement lighting in the event of a power failure, or as safety lighting to illuminate escape and rescue routes.

### Mechanical Design:

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

**Diffuser:** Acrylic glass for high mechanical strength, frosted, additional clear cover over the LED-modules to ensure protection against contact (Types ... MA).

**Closure:** Single-part plastic clips (KK), incl. 2 safety clips (KKS)

**Reflector:** Aluminium, painted, detachable carrying the electrical components.

**Connection:** 3/4-pole terminal.

**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 holes for ceiling mounting. Sealing and pressure disks for sealing are supplied inside the fitting.

### 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  $L_{90}$  > 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

**Incorporated NiMH battery,** electronic charger, short circuit protected battery and reverse battery protection

**Electronic deep discharge protection** acc. to EN 61347-2-7

**Re-charging time:** 24 h, acc. to EN 60598-2-22

**Automatic monitoring** the emergency light fitting according to EN 62034. Indication of the test results by 2-coloured LED (luminescence diode) at the luminaire.

#### Mode of operation:

**maintained operation** = switching over to battery operation in case of mains failure, line modules will be operated with reduced luminous flux as emergency lighting.

**Connection voltage:** 220-240 V 50/60 Hz

Ambient temperature: 0 °C up to +30 °C

#### Options:

– 3,000 K, 5,000 K, 6,500 K; light colours (830, 850, 865)

– cable looping at 1 small side

– cover made of polycarbonate (PC), frosted

– stainless steel clips (KE)

– according to „International Featured Standard Food“ (IFS)

– dimming function via DALI2 interface, compatible with LIMAS Line wired Light Management System (DIMD)

#### For self-contained emergency luminaires:

– through-wiring (DV), (see note) 4-conductor: L1, L1', N, PE or 6-conductor: L1, L1', L2', L3', N, PE

– DALI interface for centralised monitoring, compatible with LIMAS Line PRO or Line ESC wired Light Management Systems

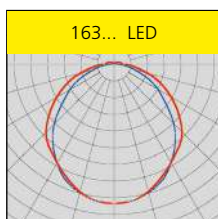
– Radio module for centralised monitoring, compatible with LIMAS Air GUARD Light Management System

#### For a central power supply system:

– percentage reduction in luminous flux in DC operation (ZB15, ZB30, ZB50)

– for connection to a central power supply system with integrated monitoring module

– for connection to a central power supply system with integrated changeover switch



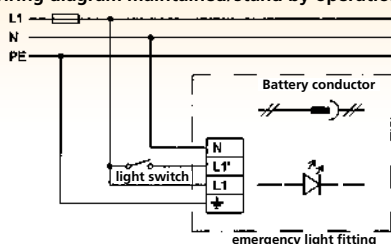
#### Advantages of the emergency light version:

- always ready for operation due to permanent trickle charging of the battery (MA-versions)
- safety in an emergency, immediate light with maximum luminous flux, even at low temperatures (MA-versions)
- Central battery versions with 100 % luminous flux in case of emergency (ZB-versions)
- reliable protection against contact due to additional clear cover (MA-versions)

#### General product highlights:

- quality luminaire with above-average mechanical strength
- safety locks to ensure protection against accidental contact
- variable cable entry thanks to additional entries along and at the top of the housing
- homogeneous illumination by using frosted diffusers, comfortable perception of light and brilliant glare limitation
- sustainable, control gear and LED-module replaceable by qualified personnel on-site
- future proof by using standardised LED-modules (Zhaga) and long-term availability of spare parts

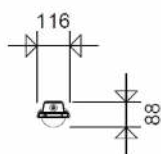
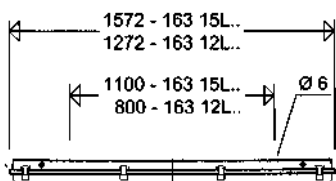
#### Wiring diagram maintained/stand by operation



**Installation:** connect battery conductor

**Decommission:** disconnect battery conductor

**Stand-by operation:** do not connect L1'



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	Connected load [W] (incl. battery charge)	Luminous flux [lm]	Luminous flux [lm] (emergency operation)	Luminous efficacy [lm/W]	Operating time 1 h	Operating time 3 h	Substitute for *	Weight [kg] (without packing material)
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## 163 ..G2/. MA



### self-contained emergency luminaire with automatic monitoring

16307 0031	<b>163 12L22G2/1 MA</b>	17	2.390	810	141	•		1 x 36W	2,6
16307 0033	<b>163 12L42G2/1 MA</b>	29	4.210	810	145	•		2 x 36W	2,6
16307 0052	<b>163 15L34G2/1 MA</b>	23	3.450	830	150	•		1 x 58W	3,0
16307 0054	<b>163 15L60G2/1 MA</b>	41	6.140	830	150	•		2 x 58W	3,0
16307 0055	<b>163 15L34G2/3 MA</b>	24	3.450	830	144		•	1 x 58W	3,4
16307 0056	<b>163 15L60G2/3 MA</b>	42	6.140	830	146		•	2 x 58W	3,4

**NEW**

## 163 ..G2 VARIO ZB



### for central power supply systems

#### Applications:

For connection to central power supply systems for illuminating escape routes.

#### Technical Data:

Light fitting with incorporated fuse for cut-off in case of failure according to DIN EN 60598-2-22, section 22.7.3.

Connection voltage: 220-240 V, 50/60 Hz and 220V DC

Ambient temperature: from -20 °C to +40 °C

#### 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

16307 0060	<b>163 12LG2 VARIO ZB</b>	20	3.100	3.100	155			1 x 36W	2,3
		25	3.870	3.870	155			1 x 58W	
		29	4.640	4.640	160			2 x 36W	
		34	5.420	5.420	159			2 x 58W	
16307 0061	<b>163 15LG2 VARIO ZB</b>	25	3.880	3.880	155			1 x 58W	2,8
		30	4.800	4.800	160			2 x 36W	
		36	5.760	5.760	160			2 x 58W	
		42	6.650	6.650	158			> 2 x 58W	

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

Accessories and spare parts please see section „Dustproof/Waterproof LED Light Fitting with Diffuser Series **163... G2 VARIO / 164.. G2 LED** in our catalogue. When ordering electronic parts or battery sets please always mention the article no. of the respective fitting.

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



**Adolf Schuch GmbH**

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