Extremely robust Dustproof/Waterproof LED-Light Fitting with Central Locking System Series 144 ...

Applications:

In humid, wet and dusty indoor areas and roofed outdoor areas with high mechanical strains as well as areas where any external clips are not wanted or where such clips could create problems. Hard to reach areas and areas with high downtime and maintenance cost when replacing the lamps, Food industry and food processing industry etc. (Aggressive atmospheres: Please consult us).

Design:

Housing: Glass fibre reinforced polyester resin.
Diffuser: Polycarbonate, clear with internal prisms, hinged.

Gasket: Silicone.
Reflector: Aluminium painted, hinged and removable. Elements for glare limitation mounted to the reflector.
Central locking system: Operated by a hexagonal socket key 13mm.
Connection: 3-pole terminal.
Cable entries: 3 entries
M25 x 1,5 (2 glands and 2 screw plugs). Looping the mains cable at one end of the housing up to 3 x 2,5mm² possible.
Mechanical installation: 2 suspension eyes with bolts (H8V P) or 2 ceiling brackets (15A P), see accessories.

Technical data:

LED: Linear modules 4,000K, CRI > 80, lifetime L_{90} > 50.000h at 25°C ambient temperature, lifetime L_{80} > 70,000h at max. ambient temperature
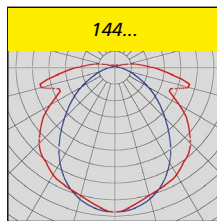ECG: 220-240V, 50/60HZ, overload and short-circuit protection
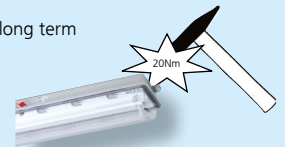Ambient temperature: -20°C up to see product table

144...

Options:

– 6.500K
– with dimming function via DALI2 interface, compatible with LIMAS Line (**DIMD**) Light Management System
– dimmable via „Corridor Mode" (**DIMC**)
– with through wiring 2,5 sqmm

– for low ambient temperatures
– for connection to group or central battery systems (**ZB**) or emergency mains respectively
– emergency light version with self-contained battery

700
1355

Pipe clamp mounting

Ø9 150 175 226

1 1/2" - 2" 248 226

Suspension eyes H8V

M8 196 226

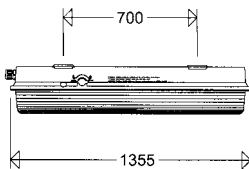### Ceiling brackets 15A

Ø9 150 175 226
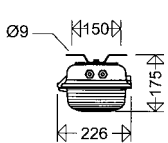
Product highlights:

- extremely sturdy design of high mechanical and chemical resistance for a long term use in rough industrial areas:
  - housing of an impact resistance
  - polycarbonate diffuser of high impact strength
  - robust internal central locking system
  - highly resistant silicone gasket of dimensional stability for permanently safe tightness (IP66)
- **highest efficiency** due to use of top-quality ECGs and LED modules
- **homogeneous illumination by using elements for glare limitation**, no particular light points visible, comfortable perception of light, brilliant glare limitation
- **high colour rendering CRI > 80**, according to the workplace guide lines suitable for nearly all plant locations
- with ▽-sign, suitable for rooms with increased fire risk due to deposits of combustible dust and fibrous materials
- best suitable in the food industry and in the food processing industry especially in risky areas falling under the IFS standards (International Featured Standard Food)
- with adapter gland with pressure compensation prevents condensation water allowing an application in all unprotected outdoor areas (Versions AUS)
- easy to install and maintain:
  - time saving easy mechanical installation by means of eye bolts or ceiling brackets without opening the light fitting
  - time saving central locking system and hinged diffuser
- ECG and reflector with LED-modules can be replaced by qualified personnel on-site (**no single use light fitting**)
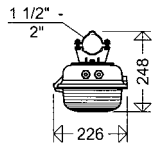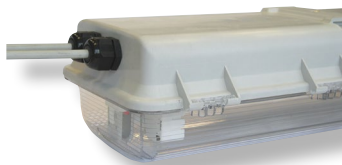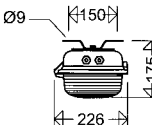- future proof by using standardized LED-modules (Zhaga)

20Nm

Auf Open Ouvrir | Zu Close Fermer

Looping the cable on one side:

All light fittings of series 144... have got 2 cable entries on one small side of the housing for cable looping instead of the through wiring system. This allowing a more economical cable looping at one end instead of the classical through wiring system (surcharge for 5-pole version).
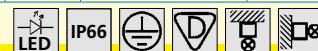
! Properties, limitations and details for controlling LED-light fittings:

See "Technical Supplement"

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

SCHUCH

Dustproof/Waterproof Light Fittings

Article No.	Type	Power consumption [W]	Luminous flux [lm]	Luminous efficacy [lm/W]	Amb. temp. max. [°C]	Substitute for ca. *	(without packing material)
144 ..						LED IP66	
14402 0001	**144 12L22**	14	2.300	164	50	1 x 36W	6,6
14402 0002	**144 12L34**	22	3.410	155	45	1 x 58W	6,6
14402 0003	**144 12L42**	29	4.280	148	40	2 x 36W	6,6
14402 0004	**144 12L60**	44	6.590	150	35	2 x 58W	6,6
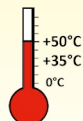
144 .. AUS

LED IP66

for application in unprotected outdoor areas

Applications:
Unprotected outdoor areas, especially in exposed areas with high mechanical stress (wind), catwalks, stairs, steel constructions, pipe brackets, on buildings, storage tank etc.

Design:
As standard type but with adapter gland with pressure compensation prevents condensation water.

Mounting:
Ceiling and horizontal wall mount or mounting to outrea-ches, poles, steel structures, catwalks, etc. by means of pipe clamps. When mounting the light fittings on bracket po-les or tubular beams/pipes always use original SCHUCH pipe clamps with support.

14402 0011	**144 12L22 AUS**	14	2.300	164	50	1 x 36W	6,6
14402 0012	**144 12L34 AUS**	22	3.410	155	45	1 x 58W	6,6
14402 0013	**144 12L42 AUS**	29	4.280	148	40	2 x 36W	6,6
14402 0014	**144 12L60 AUS**	44	6.590	150	35	2 x 58W	6,6

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

Accessories / Spare Parts

Article no.	Type	
Spare diffusers for series 144…		
84001 9004	**8404 SIL**	spare cover PC for 144 12L..
Cable glands/pressure compensation elements		
25600 9000	**2560**	ex-proof plastic cable gland M25 x 1,5
90118 9000	**2538**	ex-proof plastic plug M25 x 1,5
90259 9003	**DAE20/25**	adapter gland M20 -> M25 with pressure compensation
Mounting material		
90001 0002	**H8V P**	2 suspension eyes with bolts, stainless steel
90000 0002	**15A P**	2 ceiling brackets, hot galvanized steel
90032 0002	**15AV P**	2 ceiling brackets, stainless steel
90037 0004	**RO84 112 A P**	2 pipe clamps 1$\frac{1}{2}$", stainless steel, with support
90038 0004	**RO84 2 A P**	2 pipe clamps 2", stainless steel, with support
26000 0008	**W 26/L P**	2 wall mounting angles, sendzimized
26000 0002	**W 26/30 P**	2 wall mounting angles 30°, sendzimized
26000 0003	**W 26/45 P**	2 wall mounting angles 45°, sendzimized

Note:

This light fitting is not suitable for rare or occasional operation (e.g. maintenance and inspection lighting).

We recommend our series for use **107 ... G2 (PRIMO XR)**.

+50°C
+35°C
0°C

Mounting material

Suspension eyes with bolts H8V P

Ceiling brackets 15A P

Pipe clamps RO84...A P

Wall bracket W26/45 P

Further accessories such as carrier rail systems please see EX-installation material in this catalogue.