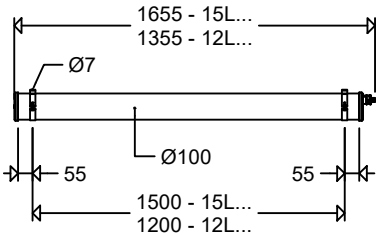


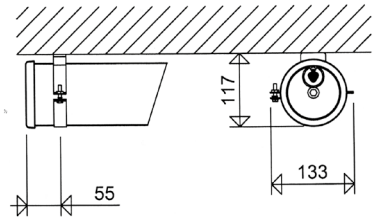
TUBEO Tubular LED Light Fitting Series 110...

Applications:
Public, commercial and industrial areas which are endangered by water jets, water spray, dusty atmospheres or high mechanical stress (vandalism). Car washs, inspections pits, docks, ships
(For damp and cold ambient conditions with low duty cycles and in the case of aggressive atmosphere, please contact us)

Design:
Housing: Impact and shatter resistant clear PMMA tube, Ø 100 mm.
Fastener: Tubular locking cap made of stainless steel with foamed gasket, special element for compensation of lenght expansion.
Reflector: Sheet steel with electric components and frosted cover for glare limitation.
Connecting: 3-pole (DIMD 5-pole) quick connection plug IP69K (**FastConnect**). Plug integrated and internally pre-wired, receptacle included for mains assembly.
Mounting: Supplied with 2 stainless steel pipe clamps.

Note:
When installing in a saline atmosphere, please request the special version.

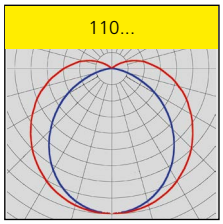




For vertical installation, please note:
Plug part must face downwards. Through wiring not possible. For Cable looping please use accessory 110 SVDA 3.

Technical data:

LED: Linear modules 4,000 K, CRI > 80, service life L_{90} > 50,000 h and L_{80} > 100,000 h at max. ambient temperature
ECG: 220-240 V, 50/60 Hz, overload and short-circuit protection
Ambient temperature: -20 °C up to see article tables



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-conscious lighting in outdoor areas etc.
– high colour rendering index Ra > 90
– coloured LEDs, for signal applications
– narrow wide beam (**TB**)
– through-wiring (**DV**), 3 x 2.5 mm² or 5 x 2.5 mm² for DIMD types
– cover made of polycarbonate (**PC**), protective tube (4 x IK10/80 Joule)
– for wide temperature ranges (**T40 H..**)
– protection class II (**SKII**)
– for connection to a central power supply system (**ZB**)

Options Luminous flux adjustment / Lighting control / Lighting management:

– Corridor Mode (**DIMC**)

Product highlights:

- **sturdy and extremely rugged tubular light fitting for application in rough environments**
- impact-resistant PMMA tube **with high mechanical strength**
- optional high-impact resistant polycarbonate tube 4 x IK10 (80 joule min.) for applications in the food industry, areas with a risk of vandalsim etc.
- dust- and pressure water tight, (IP68, 3 m/ 30 min).
- IPX9K-tested (high pressure / steam jet cleaning)
- **homogeneous illumination by using frosted covers**, comfortable perception of light, brilliant glare limitation
- **FastConnect quick connection plug** - electrical connection without opening the luminaire
- **fast mounting with variable mounting distances** by means of movable stainless steel pipe clamps
- 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

Article No.	Type	Connected load [W]	Luminous flux [lm]	Luminous efficacy [lm/W]	Amb. temp. max. [°C]	Substitute for ca. *	(without packing material)
110...						IP68 IPX9K IK07	
11000 0003	**110 12L22**	15	2.390	159	45	1 x 36W	4,4
11000 0005	**110 12L42**	27	4.240	157	35	2 x 36W	4,4
11000 0004	**110 15L34**	21	3.440	164	45	1 x 58W	5,0
11000 0006	**110 15L60**	39	6.160	158	35	2 x 58W	5,0
11000 0007	**110 15L100**	67	10.360	155	35	3 x 58W	5,1

* 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.

Article No.	Type	Connected load [W]	Luminous flux [lm]	Luminous efficacy [lm/W]	Amb. temp. max. [°C]	Substitute for ca. *	(without packing material)

110... DIMD

IP68 IPX9K IK07

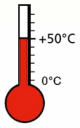
11000 0013	**110 12L22 DIMD**	15	2.390	159	45	1 x 36W	4,4
11000 0015	**110 12L42 DIMD**	27	4.240	157	35	2 x 36W	4,4
11000 0014	**110 15L34 DIMD**	21	3.440	164	45	1 x 58W	5,0
11000 0016	**110 15L60 DIMD**	39	6.160	158	35	2 x 58W	5,0
11000 0017	**110 15L100 DIMD**	67	10.360	155	35	3 x 58W	5,1

DIMD versions are compatible with LIMAS Line Light Management System.

110... H50

IP68 IPX9K IK07

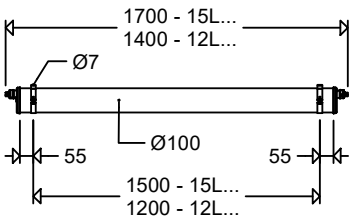
for high ambient temperatures up to +50 °C



11000 0055	**110 12L42 H50**	27	4.240	157	50	2 x 36W	4,4
11000 0056	**110 15L60 H50**	38	6.160	162	50	2 x 58W	5,1

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





Through wiring
The light fittings are available with through wiring installed at the factory only. The dimensions of the light fitting change due to the quick plug connection integrated into the connection cap on both sides (see dimension drawing). For the last luminaire in the light band, the socket part on the luminaire must be covered with a locking piece (part of the delivery).

Accessories / Spare Parts

Article No.	Type	
90272 9001	**110 RO V P**	1 pair of pipe clamps, stainless steel
90273 9001	**ABD 110 036**	cover, tube PMMA clear, for 110 12 ...
90273 9002	**ABD 110 058**	cover, tube PMMA clear, for 110 15 ...
90273 9003	**ABD 110 036 PC**	cover, tube PC clear, for 110 12 ...
90273 9004	**ABD 110 058 PC**	cover, tube PC clear, for 110 15 ...
90049 0002	**183 S**	hook for chain suspension, stainless steel
90278 9001	**110 SVDA-3**	splitter connector for in-out wiring on one end
90278 9002	**110 SVDA-5**	splitter connector for in-out wiring on one end, 5-pole version for DIMD