

LED - Lighting and connection technology

14 mm LED system - Diffuse cover for use with 14 mm wide linear LED modules

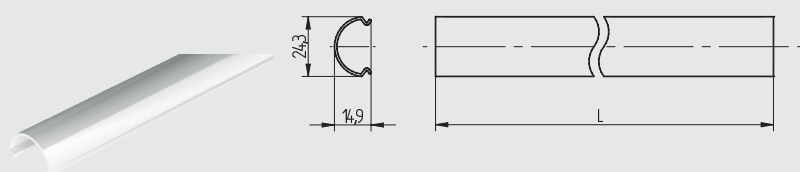


31.930



Diffuse cover

Material: PMMA, diffuse
Snap in fixing into holder 31.930.-321
For LED types 3030 and 5630

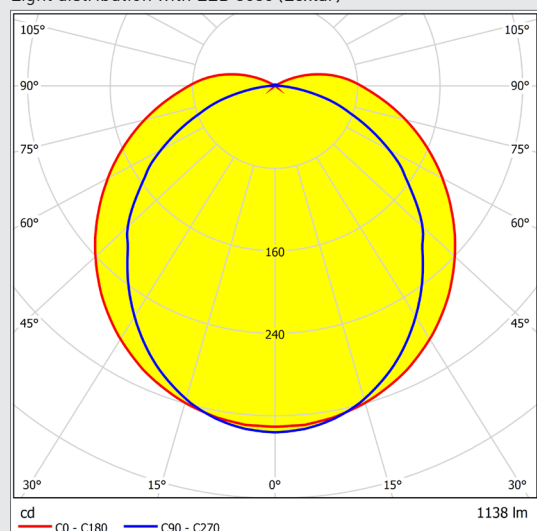


- Extremely slim diffuse cover for use directly above the LED module
- No additional profile for guidance required
- Diffuse cover allows for compensation of thermal changes in length of LED module
- Uniform light distribution
- Easy assembly by snap in fixing into holder
- Unchanged lighting design - Easy upgrade to LED technology
- High freedom in luminaire design
- Universally applicable - no defined hole distance
- Original design with specular louvres can be retained

part no.	31.930.-431.89	31.930.-432.89	31.930.-433.89	31.930.-434.89	31.930.-435.89	31.930.-439.89
Height	14.9 mm					
Width	24.3 mm					
Length	565 mm	1.125 mm	650 mm	1.200 mm	1.500 mm	2.000 mm
Fixing method	Snap in fixing into diffuser holder 31.930.-321					
LED type	3030, 5630					
Material	PMMA					
Colour	diffuse					
Surface outside	plain					
Beam angle (FWHM)	130°					
Optical efficiency	92%					
Operating temperature	max. 80 °C					

The presented information are for reference only. All lighting parameters are typical values.
The light distribution depends on the used LED type, position tolerance, chip size and used colour.

Light distribution with LED 3030 (Lextar)



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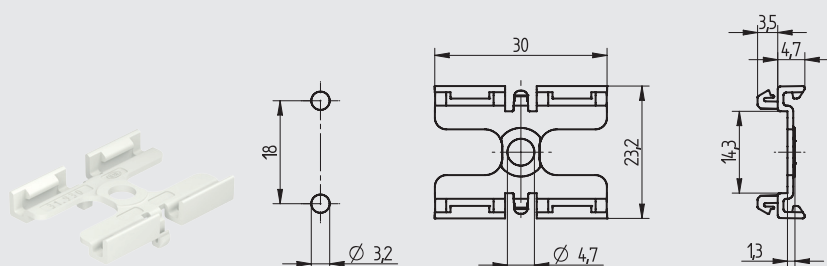
14 mm LED system - Holder for diffuse cover and LED modules / P2F



31.930
28.901



pkg. 700 wt. 2 g part no. **31.930**.-321.50 white



Holder for 14 mm wide LED modules and diffuse cover

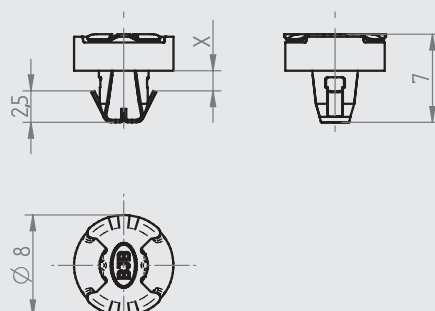
Material: PC

Easy and quick assembly with standard P2F

(Push to Fix) **28.901** or screw fixing with screws M3

- Easy, quick and secure fixing of diffuse cover by snap in fixing
- Universally applicable - hole distance on LED module freely selectable
- Integration of the diffuse cover without influence of the light distribution
- Assembly of holder and cover in just one step

Recommended number of holder: 3 pieces at 560 mm length of LED module



Colour	pkg.	wt.	part no.	Overall thickness
grey	5000	2 g	28.901.U164.10	2.4 - 2.7 mm
white	5000	2 g	28.901.U165.10	2.7 - 3.2 mm
blue	5000	2 g	28.901.U166.10	3.2 - 3.6 mm

Push-to-Fix (P2F) - Fixing element

Push-in fixing for mounting PCBs and

BJB- Optic holder into a luminaire housing

Material: CrNi with silicon insulating ring

Constant and reliable constant pressure by means of elastical silicone

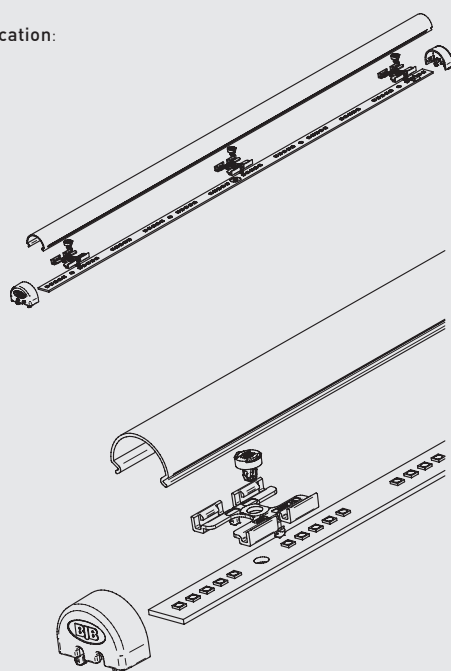
Contact pressure: min. 10 N

Push-in fixing: for hole pattern in light fitting

Ø 4.2 +/- 0.1 mm and Ø 4.7 +/- 0.1 mm in PCBs

- Quick assembly process improves production efficiency and reduces production costs
- Eliminates potential damage from screw fixing due to low insertion force
- CrNi and silicone materials ensure long life reliability
- Reliable heat dissipation due to a constant pressure
- Suitable for Zhaga certified LED modules. BJB recommends to use modules with 4.7 mm fixing hole diameter
- Assembly without any additional tools possible
- Solutions for Automation upon request
- Removable from front

Example of application:



CAD

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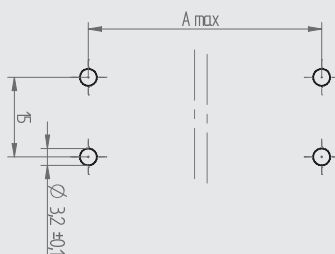
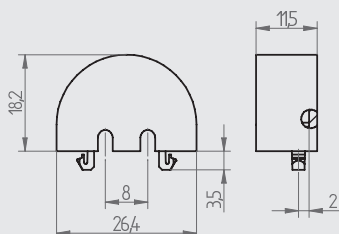
14 mm LED system - End cap and LED modules



31.930
30.000



pkg.	wt.	Part no.	
700	2 g	31.930.- 313.50	white
700	2 g	31.930.- 313.89	transparent

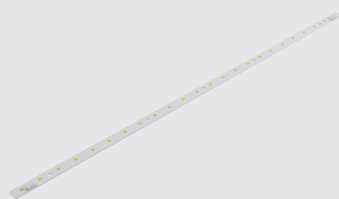


End cap to close 14 mm LED system

Snap in pins
Material: PC

- Smooth surface
- Suitable for wires up to $\varnothing 2,5$ mm
- For panel thickness: 0.8 - 1.2 mm

For use with:
BJB 14 mm wide LED modules



part no.	Module dimensions in mm	Colour temperature	Luminous flux at Tc 50	Module efficiency at Tc 50	Operational current I _f (mA)	Max. Operational current I _f (mA)	Operational voltage U _f (V)	Power consumption (W)	Connection type Series connection	Power consumption kWh/1.000 h	Energy efficiency class
30.000.0186.00 High Efficiency	595.5 x 14 mm	3.000 K	1.160 lm	147 lm/W	700 mA	1.800 mA	11.3 V	7.9 W	max. 4 modules	8.7	A++
30.000.0186.00 High Output	595.5 x 14 mm	3.000 K	2.160 lm	129 lm/W	1.400 mA	1.800 mA	11.9 V	16.7 W	max. 4 modules	18.4	A+
30.000.0221.00 High Efficiency	595.5 x 14 mm	4.000 K	1.250 lm	158 lm/W	700 mA	1.800 mA	11.3 V	7.9 W	max. 4 modules	8.7	A++
30.000.0221.00 High Output	595.5 x 14 mm	4.000 K	2.350 lm	140 lm/W	1.400 mA	1.800 mA	11.9 V	16.7 W	max. 4 modules	18.4	A++
30.000.0223.00 High Efficiency	595.5 x 14 mm	5.700 K	1.310 lm	166 lm/W	700 mA	1.800 mA	11.3 V	7.9 W	max. 4 modules	8.7	A++
30.000.0223.00 High Output	595.5 x 14 mm	5.700 K	2.440 lm	146 lm/W	1.400 mA	1.800 mA	11.9 V	16.7 W	max. 4 modules	18.4	A++
30.000.0418.00 High Efficiency	279.5 x 14 mm	3.000 K	580 lm	147 lm/W	350 mA	900 mA	11.3 V	4.0 W	max. 4 modules	4.4	A++
30.000.0418.00 High Output	279.5 x 14 mm	3.000 K	1.080 lm	129 lm/W	700 mA	900 mA	11.9 V	8.4 W	max. 4 modules	9.2	A+
30.000.0419.00 High Efficiency	279.5 x 14 mm	4.000 K	625 lm	158 lm/W	350 mA	900 mA	11.3 V	4.0 W	max. 4 modules	4.4	A++
30.000.0419.00 High Output	279.5 x 14 mm	4.000 K	1.175 lm	140 lm/W	700 mA	900 mA	11.9 V	8.4 W	max. 4 modules	9.2	A++
30.000.0420.00 High Efficiency	279.5 x 14 mm	5.700 K	655 lm	166 lm/W	350 mA	900 mA	11.3 V	4.0 W	max. 4 modules	4.4	A++
30.000.0420.00 High Output	279.5 x 14 mm	5.700 K	1.220 lm	146 lm/W	700 mA	900 mA	11.9 V	8.4 W	max. 4 modules	9.2	A++