

*by* klir  
lichtwerk

## INSPIRATION

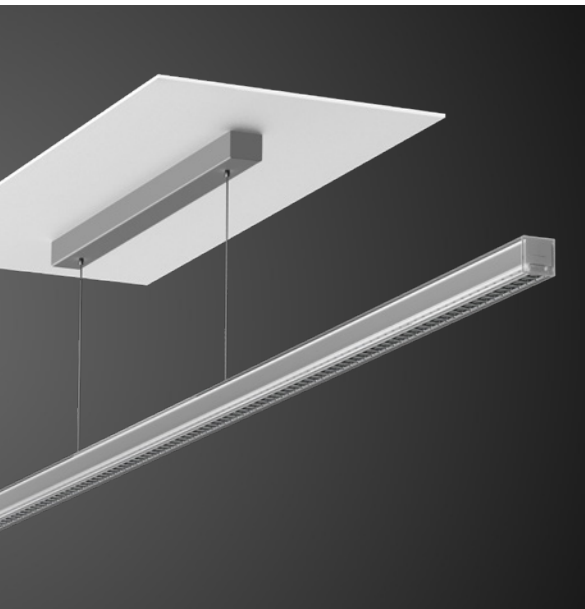


Orginator: iStock, ismagilov | Rendering: lichtwerk GmbH, Königsberg DE



Orginator: Bieffe Render, Sommacampagna | | Rendering: Bieffe Render, Sommacampagna |

## PENDANT LUMINAIRE



## klir-HIOSA

IP20

### Housing

Aluminium profile, naturally anodized, combined with clear face ends and side elements made from acrylic glass. Integrated Fresnel optic for lateral profile illumination.

### Lighting technology -HIOSA

Direct/indirect distribution.

Direct distribution via integrated micro cell grid, high gloss metallized. Indirect ratio extreme wide distribution through continuous linear lens.

Side elements made from acrylic glass with integrated Fresnel optic for lateral profile illumination.

Suitable for VDU workstations  $65^\circ < 1000 \text{ cd/m}^2$ ,  $\text{UGR} \leq 16$  according to DIN-EN 12464-1.

Rated life time: L80 B10 50.000h. CRI  $\geq 90$ .

Light colour: 3000K or 4000K

Other light colours on request.

### Suspension

Canopy made of aluminium profile, naturally anodized with integrated driver. Single wire suspension, translucent, with integrated live wire. Free height adjustment between 150 and 1500 mm.

### Accessory

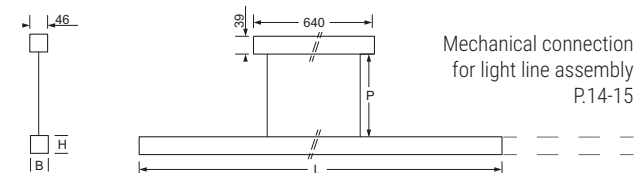
Face ends with cable entry for surface mounted cable routing.

Type	LED Specification	P <sub>sys</sub> (W)	Driver	Item-number	Colour	
klir-HIOSA/1100	LED 3600lm 930	31	ED	569 4154 100		2,6
klir-HIOSA/1100	LED 3600lm 930	31	DALI	569 4156 600		2,6
klir-HIOSA/1700	LED 5400lm 930	47	ED	569 6154 100		3,2
klir-HIOSA/1700	LED 5400lm 930	47	DALI	569 6156 600		3,2
klir-HIOSA/2200	LED 7100lm 930	62	ED	569 8154 100		3,9
klir-HIOSA/2200	LED 7100lm 930	62	DALI	569 8156 600		3,9
klir-HIOSA/2800	LED 8900lm 930	78	ED	569 0154 100		4,5
klir-HIOSA/2800	LED 8900lm 930	78	DALI	569 0156 600		4,5

► Please refer to the current data for LED luminaires at [www.lichtwerk.de](http://www.lichtwerk.de)

## Surface mounted canopy

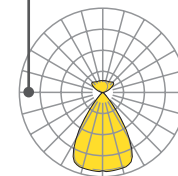
Type	L	B	H	P <sub>min</sub>	P <sub>max</sub>
klir/1100	1127	40	43	150	1500
klir/1700	1687	40	43	150	1500
klir/2200	2247	40	43	150	1500
klir/2800	2807	40	43	150	1500



### klir/1700

5700lm 940

<b>η<sub>LB</sub></b>	<b>100 %</b>
Direct	69 %
Indirect	31 %
UGR lat.	11,1
UGR long.	11,9

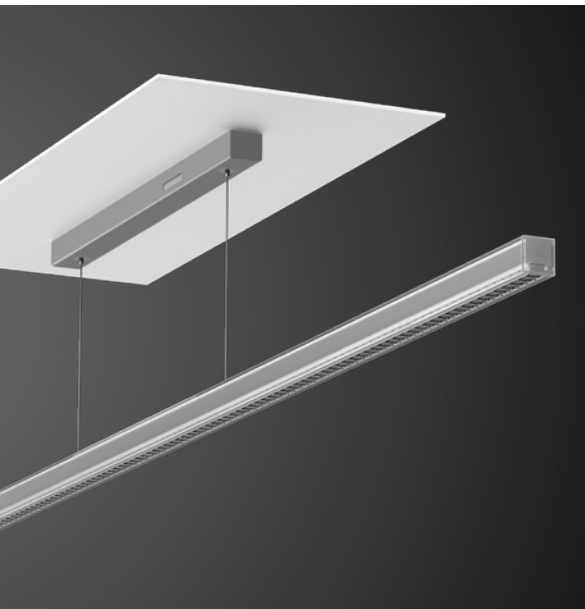


Accessories	Description	Item-number	
klir-SDV	Face ends with cable entry for surface mounted cable routing	569 0000 100	0,03

Type	LED Specification	P <sub>sys</sub> (W)	Driver	Item-number	Colour	
klir-HIOSA/1100	LED 3800lm 940	31	ED	569 4174 100		2,6
klir-HIOSA/1100	LED 3800lm 940	31	DALI	569 4176 600		2,6
klir-HIOSA/1700	LED 5700lm 940	47	ED	569 6174 100		3,2
klir-HIOSA/1700	LED 5700lm 940	47	DALI	569 6176 600		3,2
klir-HIOSA/2200	LED 7600lm 940	62	ED	569 8174 100		3,9
klir-HIOSA/2200	LED 7600lm 940	62	DALI	569 8176 600		3,9
klir-HIOSA/2800	LED 9600lm 940	78	ED	569 0174 100		4,5
klir-HIOSA/2800	LED 9600lm 940	78	DALI	569 0176 600		4,5

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## PENDANT LUMINAIRE



## klir-HIOSA



### Housing

Aluminium profile, naturally anodized, combined with clear face ends and side elements made from acrylic glass. Integrated Fresnel optic for lateral profile illumination.

### Lighting technology -HIOSA

Direct/indirect distribution.

Direct distribution via integrated micro cell grid, high gloss metallized. Indirect ratio extreme wide distribution through continuous linear lens.

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Suitable for VDU workstations  $65^\circ < 1000 \text{ cd/m}^2$ ,

UGR  $\leq 16$  according to DIN-EN 12464-1.

Rated life time: L80 B10 50.000h. CRI  $\geq 90$ .

Light colour: 3000K or 4000K

Other light colours on request.

### Suspension

Canopy made of aluminium profile, naturally anodized with integrated driver. Single wire suspension, translucent, with integrated live wire. Free height adjustment between 150 and 1500 mm.

### Accessory

Face ends with cable entry for surface mounted cable routing.



Luminaire with integrated Casambi light control module.

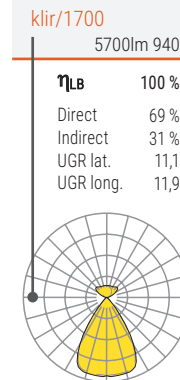
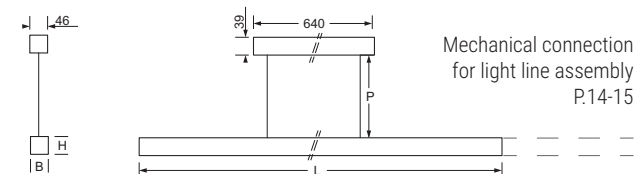
Operation via free app and other system components.

Type	LED Specification	P <sub>sys</sub> (W)	Driver	Item-number	Colour	kg
klir-HIOSA/1100	LED 3600lm 930	31	FLEX10L	569 4151 600	cl	2,6
klir-HIOSA/1700	LED 5400lm 930	47	FLEX10L	569 6151 600	cl	3,2
klir-HIOSA/2200	LED 7100lm 930	62	FLEX10L	569 8151 600	cl	3,9
klir-HIOSA/2800	LED 8900lm 930	78	FLEX10L	569 0151 600	cl	4,5

► Please refer to the current data for LED luminaires at [www.lichtwerk.de](http://www.lichtwerk.de)

## Surface mounted canopy

Type	L	B	H	P <sub>min</sub>	P <sub>max</sub>
klir/1100	1127	40	43	150	1500
klir/1700	1687	40	43	150	1500
klir/2200	2247	40	43	150	1500
klir/2800	2807	40	43	150	1500



Accessories	Description	Item-number	kg
klir-SDV	Face ends with cable entry for surface mounted cable routing	569 0000 100	0,03

► Light control components see page 16-17.

Type	LED Specification	P <sub>sys</sub> (W)	Driver	Item-number	Colour	kg
klir-HIOSA/1100	LED 3800lm 940	31	FLEX10L	569 4171 600	cl	2,6
klir-HIOSA/1700	LED 5700lm 940	47	FLEX10L	569 6171 600	cl	3,2
klir-HIOSA/2200	LED 7600lm 940	62	FLEX10L	569 8171 600	cl	3,9
klir-HIOSA/2800	LED 9600lm 940	78	FLEX10L	569 0171 600	cl	4,5

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IP20      


















Aluminium profile, naturally anodized, combined with clear face ends and side elements made from acrylic glass. Integrated Fresnel optic for lateral profile illumination.

Direct/indirect distribution.

Direct distribution via integrated micro cell grid, high gloss metallized. Indirect ratio extreme wide distribution through continuous linear lens.  
Side elements made from acrylic glass with integrated Fresnel optic for lateral profile illumination.  
Suitable for VDU workstations  $65^{\circ} < 1000 \text{ cd/m}^2$ ,  $\text{UGR} \leq 16$  according to DIN-EN 12464-1.  
Rated life time: L80 B10 50.000h. CRI  $\geq 90$ .  
Light colour: 3000K or 4000K  
Other light colours on request.

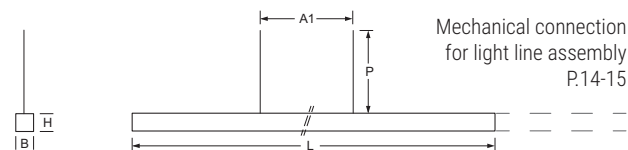
Single wire suspension, translucent, with integrated live wire. Free height adjustment between 150 and 1500 mm. Driver for false ceiling placement included. No visible connection cords.

for different false ceiling systems. To be ordered separately.

Type	LED Specification	P <sub>Sys</sub> (W)	Driver	Item-number	Colour	
klir-HIOSE/1100	LED 3600lm 930	31	ED	569 4154 110	 	2,2
klir-HIOSE/1100	LED 3600lm 930	31	DALI	569 4156 610	 	2,2
klir-HIOSE/1700	LED 5400lm 930	47	ED	569 6154 110	 	2,8
klir-HIOSE/1700	LED 5400lm 930	47	DALI	569 6156 610	 	2,8
klir-HIOSE/2200	LED 7100lm 930	62	ED	569 8154 110	 	3,5
klir-HIOSE/2200	LED 7100lm 930	62	DALI	569 8156 610	 	3,5
klir-HIOSE/2800	LED 8900lm 930	78	ED	569 0154 110	 	4,1
klir-HIOSE/2800	LED 8900lm 930	78	DALI	569 0156 610	 	4,1










► Please refer to the current data for LED luminaires at [www.lichtwerk.de](http://www.lichtwerk.de)

Type	L	B	H	A1	P <sub>min</sub>	P <sub>max</sub>
klir/1100	1127	40	43	520	150	1500
klir/1700	1687	40	43	520	150	1500
klir/2200	2247	40	43	520	150	1500
klir/2800	2807	40	43	520	150	1500

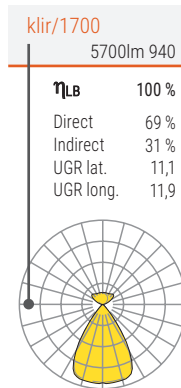


LC-LW Controller Box FLEX10L to be orders separately.

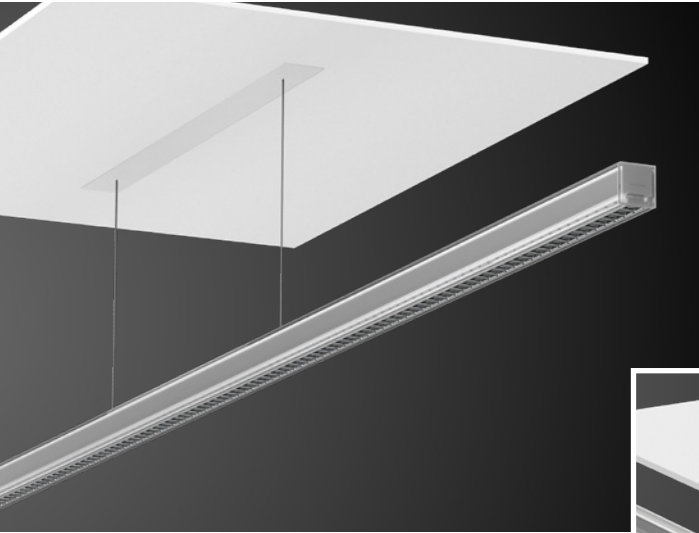
▶ Controller box and other light control system components see page 16-17.

Type	LED Specification	P <sub>Sys</sub> (W)	Driver	Item-number	Colour	
klir-HIOSE/1100	LED 3800lm 940	31	ED	569 4174 110		2,2
klir-HIOSE/1100	LED 3800lm 940	31	DALI	569 4176 610		2,2
klir-HIOSE/1700	LED 5700lm 940	47	ED	569 6174 110		2,8
klir-HIOSE/1700	LED 5700lm 940	47	DALI	569 6176 610		2,8
klir-HIOSE/2200	LED 7600lm 940	62	ED	569 8174 110		3,5
klir-HIOSE/2200	LED 7600lm 940	62	DALI	569 8176 610		3,5
klir-HIOSE/2800	LED 9600lm 940	78	ED	569 0174 110		4,1
klir-HIOSE/2800	LED 9600lm 940	78	DALI	569 0176 610		4,1

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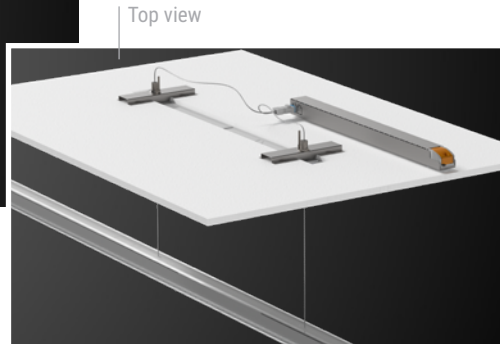


## Set for false ceiling installation

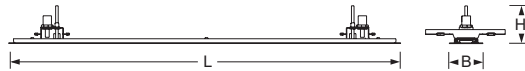


### klir-EAD

**Mounting set for cut out ceilings**  
Incl. mounting rail and cover, traffic white,  
similar RAL 9016.  
Ceiling thickness 12,5 to 25mm.

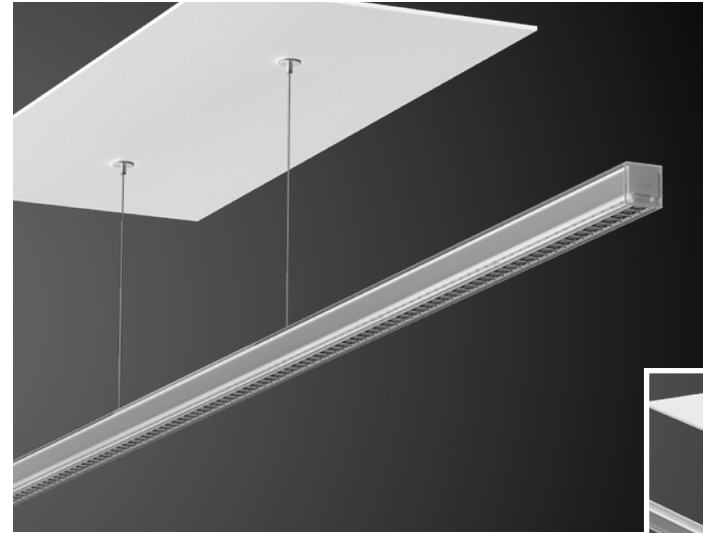


Type	L	B	H	SL	SB	e <sub>min</sub>
klir-EAD	640	50	58	630	40	100



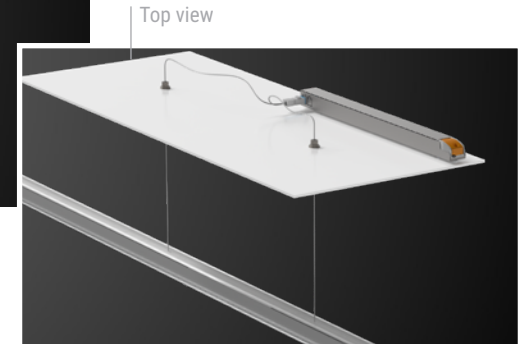
Type	Description	Item-number	kg
klir-EAD	Mounting for cut out ceilings	569 5000 140	0,63


## Set for false ceiling installation

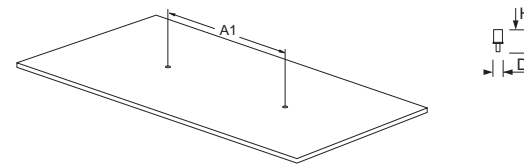


### klir-EMD

**Mounting set for load-bearing  
system panels.**  
Panel thickness 1-5mm.



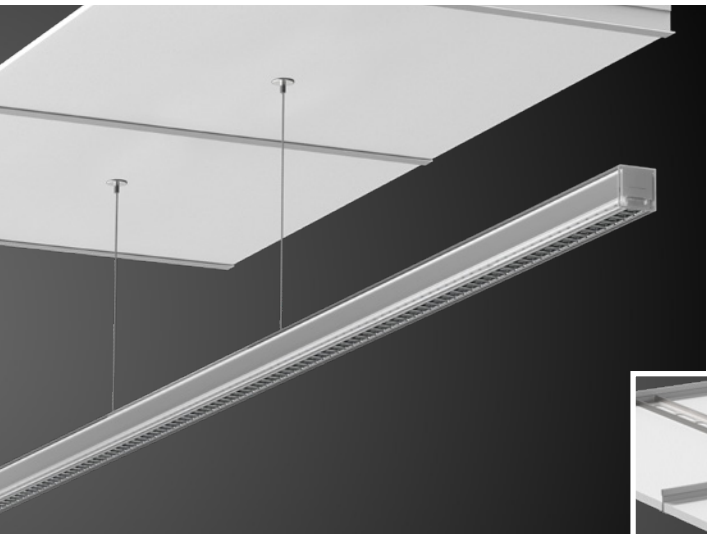
Type	D	H	A1	
klir-EMD	26	32	520	13



Type	Description	Item-number	kg
klir-EMD	Mounting for load-bearing system panels	569 5000 130	0,07



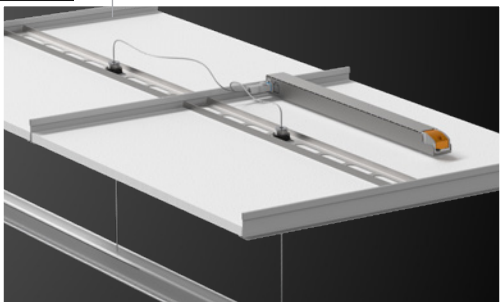
Set for false ceiling installation



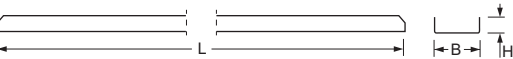
klir-ETS


Mounting set for modular ceilings 625 with visible T-rails 24mm  
incl. hidden mounting rails for transferring the weight to the ceiling supporting structure via one or two modular units.  
Suitable for panel thickness 1 - 25 mm.  
Other panel thickness on request.

Top view modular ceiling

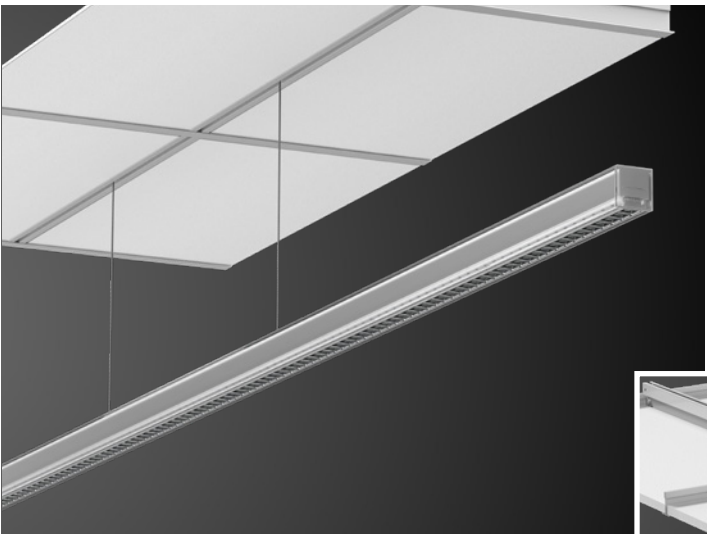


Type	L	B	H	e <sub>min</sub>
klir-ETS	622	47	11	100



Type	Description	Item-number	
klir-ETS	Hidden mounting set for modular ceilings with visible T-rails	569 5000 120	0,62

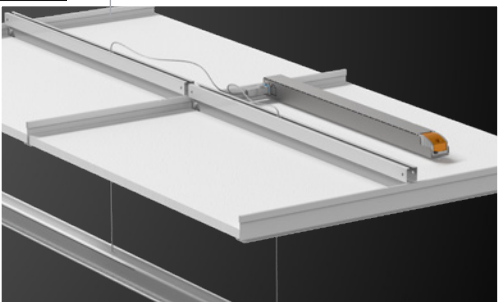
Set for false ceiling installation



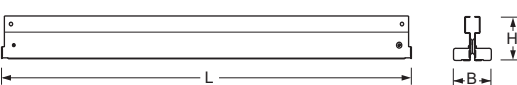
klir-EVTS


Mounting set for modular ceilings 625 with visible T-rails 24mm  
incl. visible mounting rails, traffic white, for transferring the weight to the ceiling supporting structure. Single wire suspension freely moveable via one or two modular units.  
Suitable for panel thickness 12 - 30 mm.  
Other panel thickness on request.

Top view modular ceiling

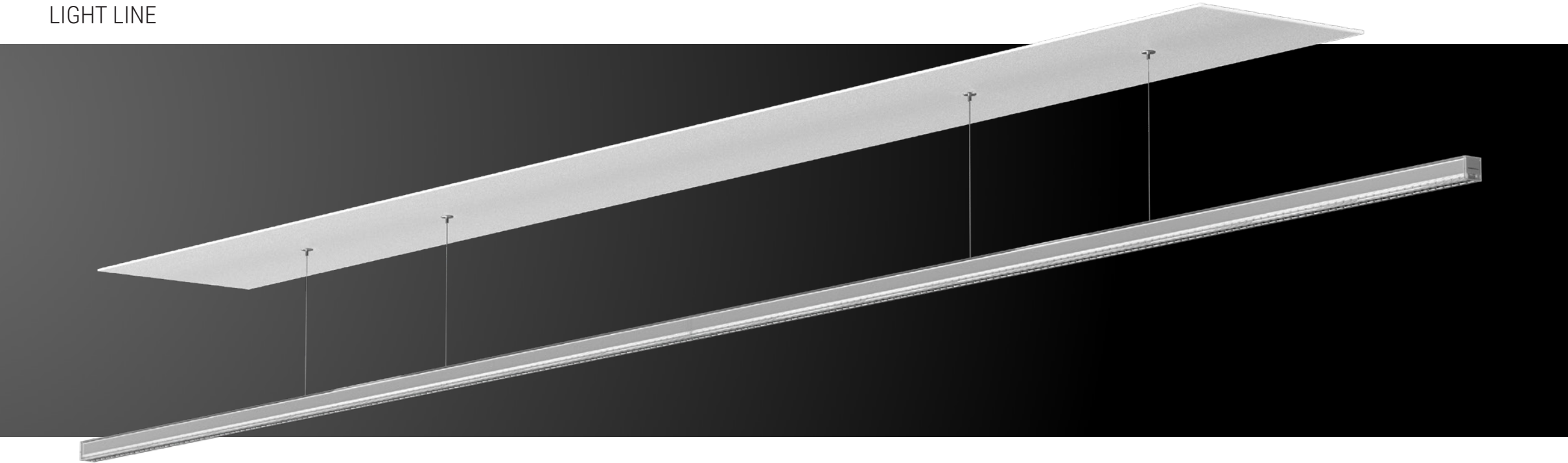


Type	L	B	H	e <sub>min</sub>	SB
klir-EVTS	621	50	58	100	8



Type	Description	Item-number	
klir-EVTS	Variable visible mounting set for modular ceilings with visible T-rails	569 5000 110	1,18

LIGHT LINE



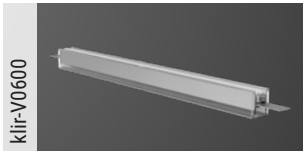
klir-V0


Mechanical connection for continuous light line assembly.



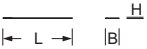
klir-V0600

Mechanical connection for light line assembly with a luminaire spacing of 560mm. Other dimensions on request.

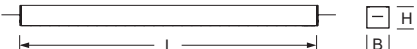


Type	Description	Item-number	
klir-V0	Mechanical connection	569 1000 100	0,02
klir-V0600	Mechanical connection with 560mm spacing	569 1056 100	0,62

Type	L	B	H
klir-V0	100	26	1



Type	L	B	H
klir-V0600	560	40	43





## LC-Controller box for klir-HIOSE

### Controller box

to be placed in false ceiling, with integrated Casambi light control module. Electrical connection via three-pole feed-in and connection terminal with plug-in technology, with integrated protective earth connection and unlocking button, suitable for rigid and flexible cables up to 2,5mm². Five-pole connection cord to be connected to the DALI controlled luminaire.

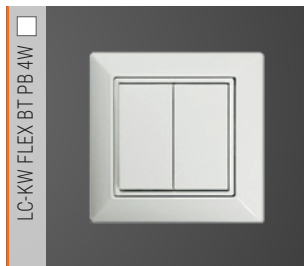


Type	Details	Item-number	
Controller box	LC-LW Controller box FLEX10L	Controller box for false-ceiling mounting with Casambi-module	840 0000 522 0,17

## LC-Wall push button


### Single push button LC-KW FLEX BT PB 2W

Bluetooth wireless push button, with two switching points, white. One rocker, battery-free, with frame, wall mounting possible, compatible with all Casambi modules.



### Double push button LC-KW FLEX BT PB 4W

Bluetooth wireless button, with four switching points, white. Two rockers, battery-free, with frame, wall mounting possible, compatible with all Casambi modules.


Type	Details	Item-number	Colour	
Wall push button	LC-KW FLEX BT PB 2W	Bluetooth, 2-channel, 1 rocker, battery-free, with frame	<input type="checkbox"/>	0,05
	LC-KW FLEX BT PB 4W	Bluetooth, 4-channel, 2 rockers, battery-free, with frame	<input type="checkbox"/>	0,05

## LC-Push button coupler

### Bluetooth push button coupler

Four button inputs, for switch box installation, for connecting separate push buttons, 230V 50Hz mains supply required, compatible with all Casambi modules.



Type	Details	Item-number	
Push button coupler	LC-LW FLEX10 PBU 4	Bluetooth push button coupler, switch box installation, 4-channel 230V 50Hz	850 1020 120 0,05


## LC-Sensor

### LC-sensor LC-LW FLEX10 5DP 38rc

Recessed motion and daylight sensor, white. Including bezels to optimize sensor detection area. Setting via APP, 230V 50Hz power supply required, compatible with all Casambi modules.

Optional housing  
LC-LW FLEX10 5DP 38rc Box  
for surface mounting.



Type	Details	Item-number	Colour	
Sensor	LC-LW FLEX10 5DP 38rc	Bluetooth recessed sensor including bezels	<input type="checkbox"/>	0,09
Surface mounted housing	LC-LW FLEX10 5DP 38rc Box	Housing for surface mounting (without sensor)	<input type="checkbox"/>	0,09

## INSPIRATION



Originator: shutterstock, Who is Danny | Rendering: lichtwerk GmbH, Königsberg DE



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<https://www.lichtwerk.de>