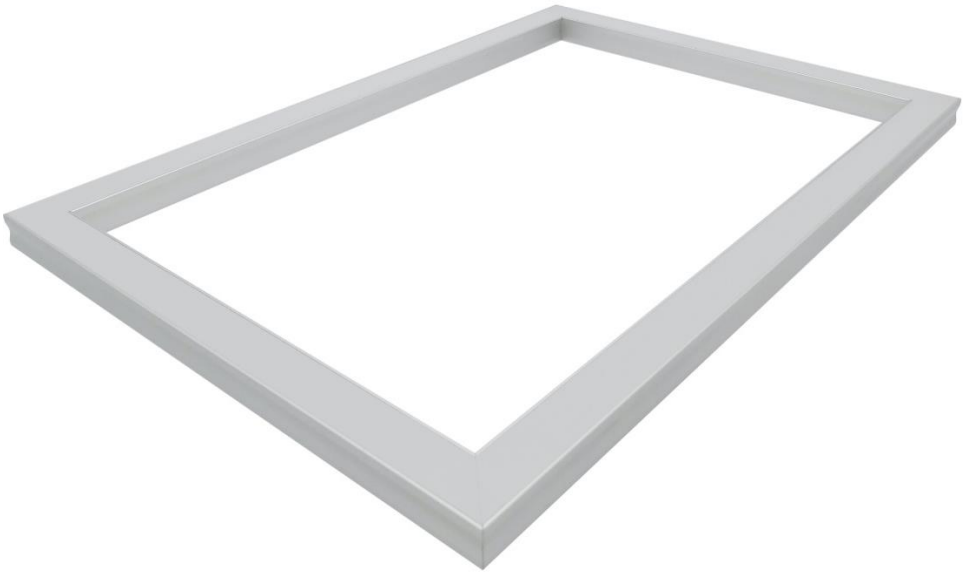
LED Rectangle Frame R14

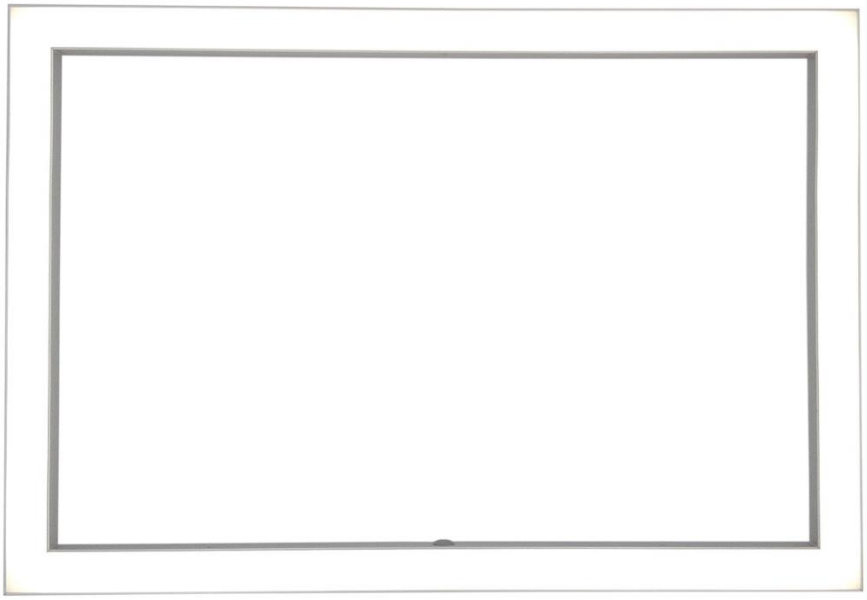
Data sheet

1. Product overview

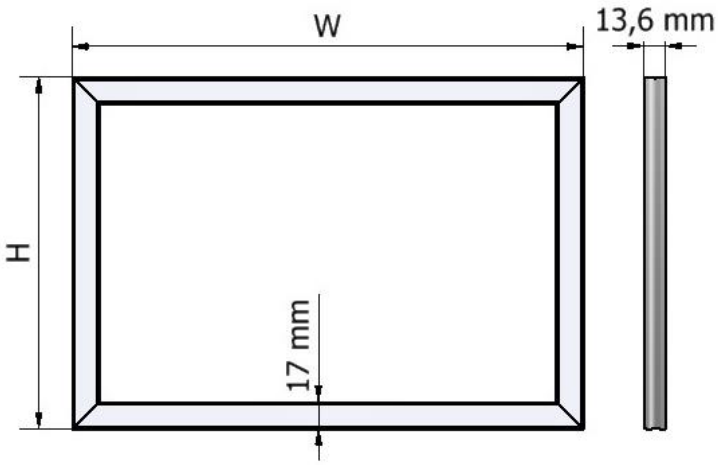
LED lighting frame made of quality anodized aluminium and high efficiency LED diffuser

- **Very aesthetic appearance**
- **Silver anodized aluminum**
- **Low height 13.6mm**
- **Opal PC LED diffuser**
- **Uniform light frame LED dots free**
- **Precisely made corner connections**
- **Surface, suspended, plasterboard**
- **Made in Poland**
- LED strip frame module
- Side or bottom power cable
- Various luminous flux and power
- LED strip 120LEDs/m
- Ra 80/90, SMD 2835/2216
- IP20 Indoor use
- Standard and custom sizes
- Various light colours





2. Frame sizes and parameters



Standard H x W dimensions

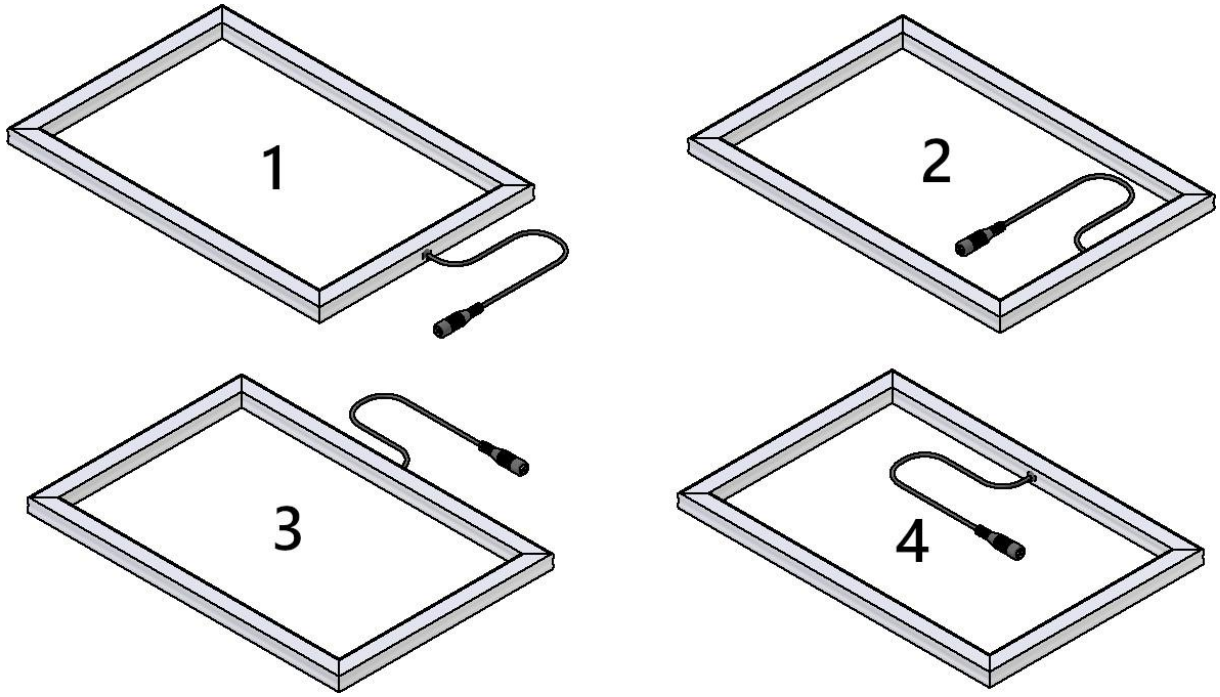
Frame code	H[mm]	W[mm]
R14-2222	221	221
R14-2232	221	321
R14-2242	221	421
R14-2262	221	621

Parameters depending on the LED strip used and its perimeter length

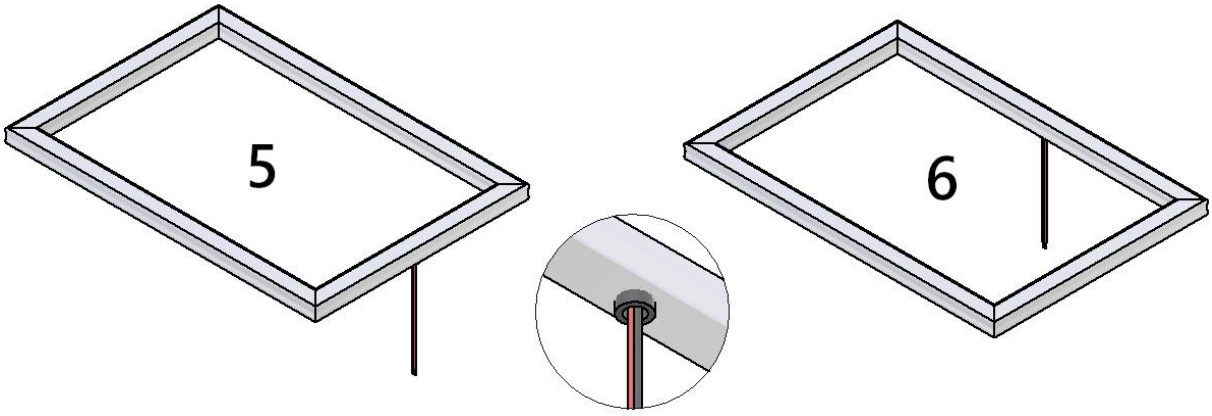
LED module code	Frame Power [W]	Frame output Lum. flux [lm]	Voltage [V]	LEDs/ m	Ra	SMD	Available light Colour
Frame R14-2222 LED strip length 0.8m							
LF9R2020	7.7	530	12	120	80	2835	White, R, G, B, Y
LF6R2020	4.8	370	12	120	80	2835	White
LA8R2020	6.7	480	12	120	90	2216	White, R, G, B, Y
LA8BR2020	6.7	480	24	120	90	2216	White, R, G, B, Y
Frame R14-2232 LED strip length 1m							
LF9R2030	9.6	660	12	120	80	2835	White, R, G, B, Y
LF6R2030	6	460	12	120	80	2835	White
LA8R2030	8.4	600	12	120	90	2216	White, R, G, B, Y
LA8BR2030	8.4	600	24	120	90	2216	White, R, G, B, Y
Frame R14-2242 LED strip length 1.2m							
LF9R2040	11.5	790	12	120	80	2835	White, R, G, B, Y
LF6R2040	7.2	560	12	120	80	2835	White
LA8R2040	10.1	720	12	120	90	2216	White, R, G, B, Y
LA8BR2040	10.1	720	24	120	90	2216	White, R, G, B, Y
Frame R14-2262 LED strip length 1.6m							
LF9R2060	15.4	1060	12	120	80	2835	White, R, G, B, Y
LF6R2060	9.6	750	12	120	80	2835	White
LA8R2060	13.4	960	12	120	90	2216	White, R, G, B, Y
LA8BR2060	13.4	960	24	120	90	2216	White, R, G, B, Y

3. Power cord outlet

The DC 2.1/5.5mm power cable coming out from the side in the middle of the long or short piece of the frame.



The 2-wire power cable coming out from the bottom and in the middle of the long or short piece of the frame.



Outlet code	Drawing nr	Outlet location
SO	1	On the shorter piece towards the outside of the frame
SI	2	On the shorter piece towards the inside of the frame
LO	3	On the longer piece towards the outside of the frame
LI	4	On the longer piece towards the inside of the frame
SB	5	On the shorter piece from the bottom of the frame
LB	6	On the longer piece from the bottom of the frame

4. Mounting of frames with a power cable outlet from the side

4.1. Surface mounting with acrylic double-sided adhesive tape.

Applicable in the assembly of LED frames for furniture, walls.

Specification :

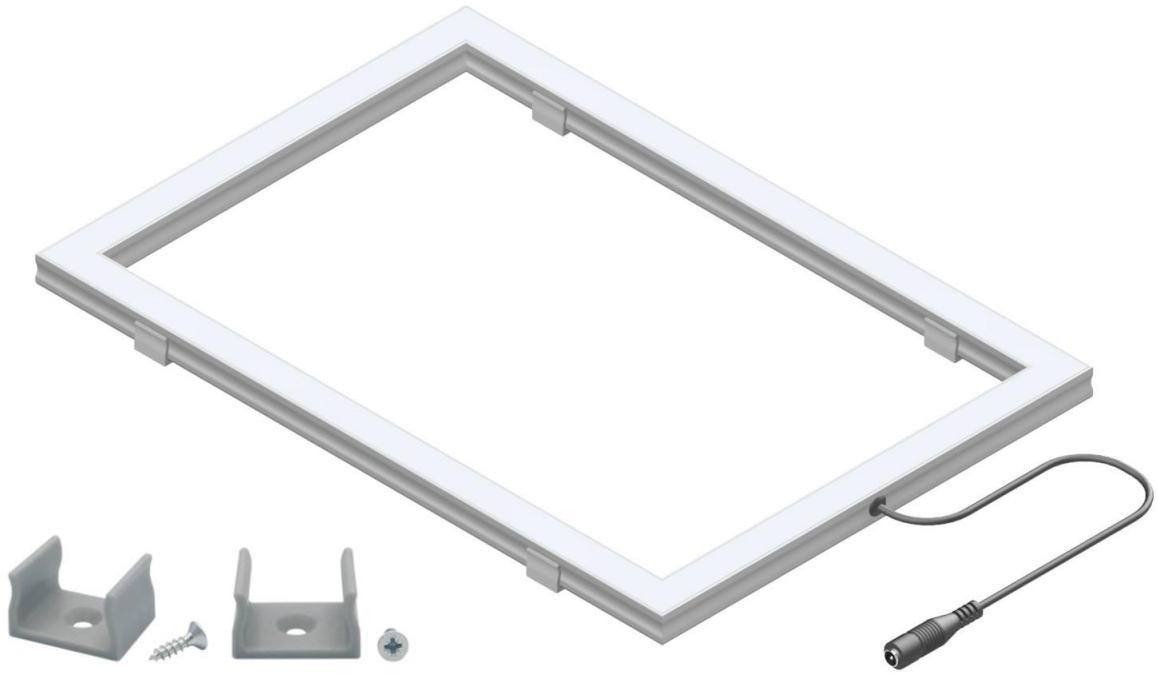
- Double-sided 3M VHB GPH 110GF adhesive tape with thickness of 1mm is attached to the frame
- The frame is without any screw holes for mounting
- The LED module is already installed inside the frame
- The power cable is soldered to the LED strip and is secured with a grommet
- The power cord ends with a DC socket 2.1/5.5mm
- Power supply is not included

Mounting code: *AT*

ATTENTION! LED frames mounted on double-sided adhesive tape cannot be located in places that are above human heads!

4.2. Surface mounting with plastic brackets fibre glass reinforced

Applicable in the assembly of LED frames for furniture, wood surfaces.



Specification :

- Plastic brackets fibre glass reinforced with wood screws 3x12mm are included. The number of handles depends on the dimensions of the frame
- The frame is without any screw holes for mounting
- The LED module is already installed inside the frame
- The power cable is soldered to the LED strip and is secured with a grommet
- The power cord ends with a DC socket 2.1/5.5mm
- Power supply is not included

Not intended for use: overhead, on plasterboard, walls.
The plastic holders are not suitable for mounting with wall plugs.

Mounting code: *BR*

ATTENTION! LED frames mounted with plastic brackets cannot be located in places that are above human heads!

4.3. Plasterboard mounting using holders with a spring

Applicable in the assembly of LED frames for plasterboard surface.

Specification :

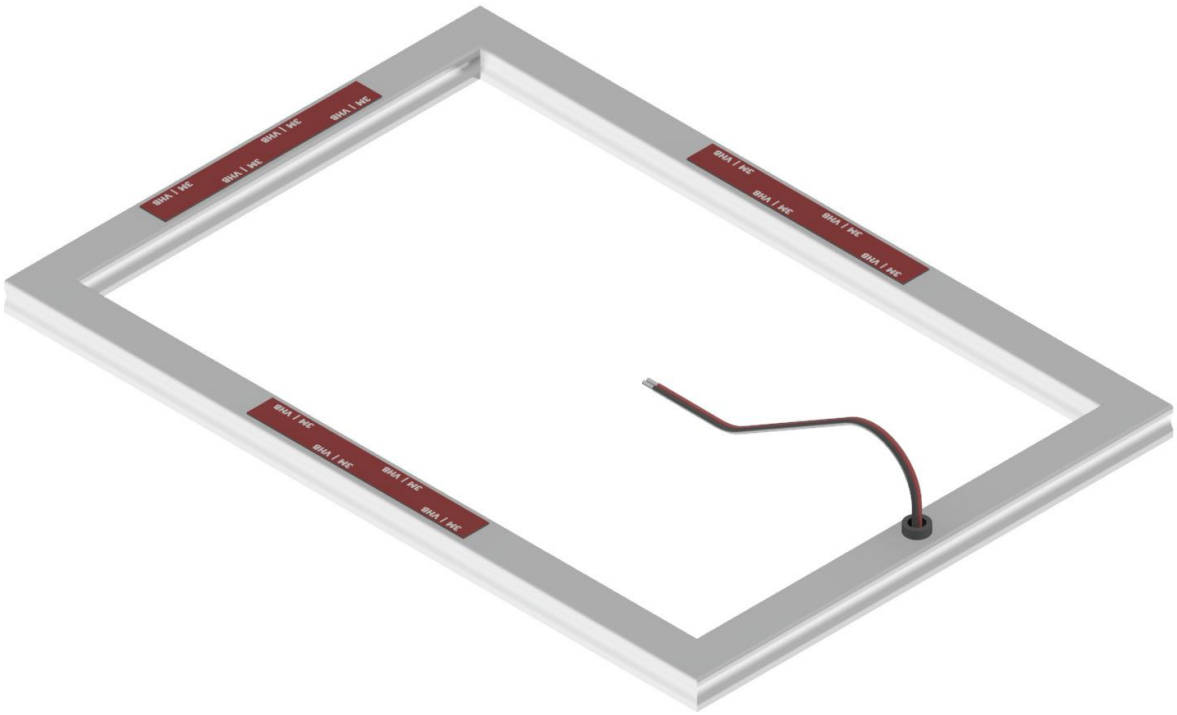
- Aluminum brackets with a spring are included. The number of handles depends on the dimensions of the frame
- The mounting surface requires holes with a diameter of 10 mm for the springs
- The frame is without any screw holes for mounting
- The LED module is already installed inside the frame
- The power cable is soldered to the LED strip and is secured with a grommet
- The power cord ends with a DC socket 2.1/5.5mm
- Power supply is not included

Mounting code: *BS*

5. Mounting of frames with a power cable outlet from the bottom

5.1. Surface mounting with acrylic double-sided adhesive tape.

Applicable in the assembly of LED frames for furniture, walls.



Specification :

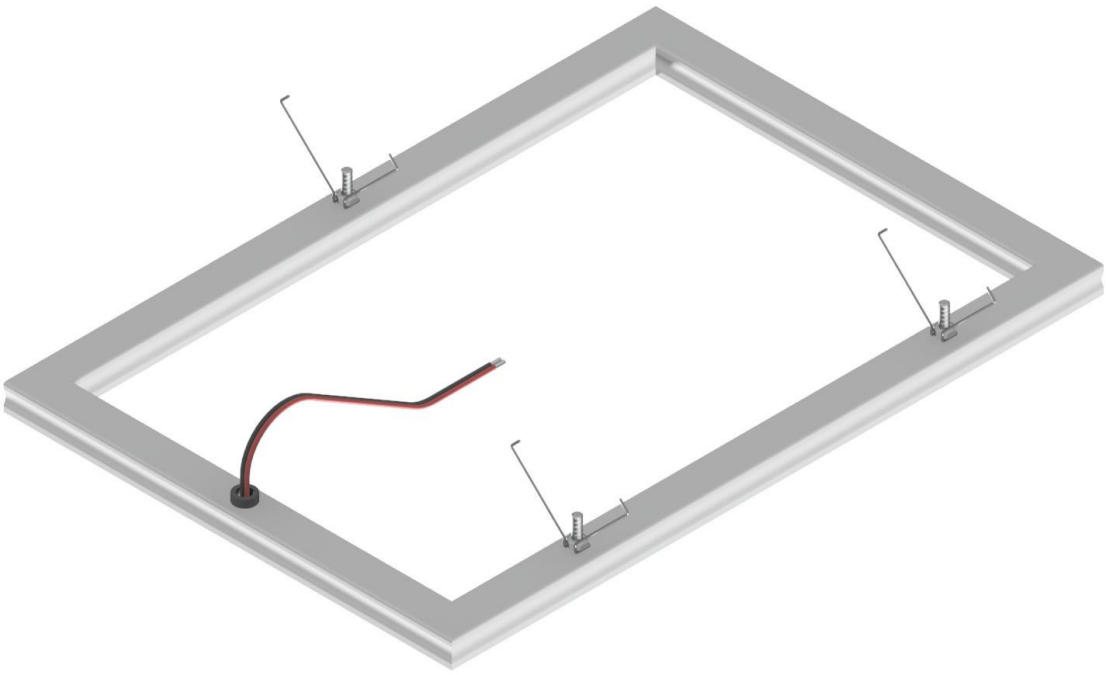
- After the assembly the power cord is not visible
- Double-sided 3M VHB GPH 110GF adhesive tape with thickness of 1mm is attached to the frame
- The frame is without any screw holes for mounting
- Minimum 10 mm diameter hole is required in the surface for the power cable entry
- The led module is not installed and needs to be attached by the user
- The LED module has double-sided tape
- Two-wire power cable is soldered to the LED strip and secured with a bushing
- The frame has a service hole covered with a cap
- Power supply is not included

Mounting code: *MT*

ATTENTION! LED frames mounted on double-sided adhesive tape cannot be located in places that are above human heads!

5.2. Plasterboard mounting with a set of spring

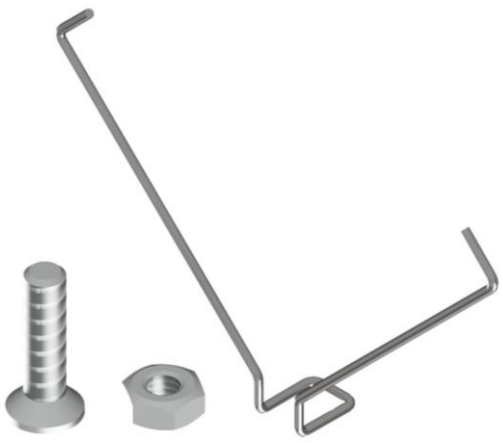
Applicable in the assembly of LED frames for plasterboard surface.



Specification :

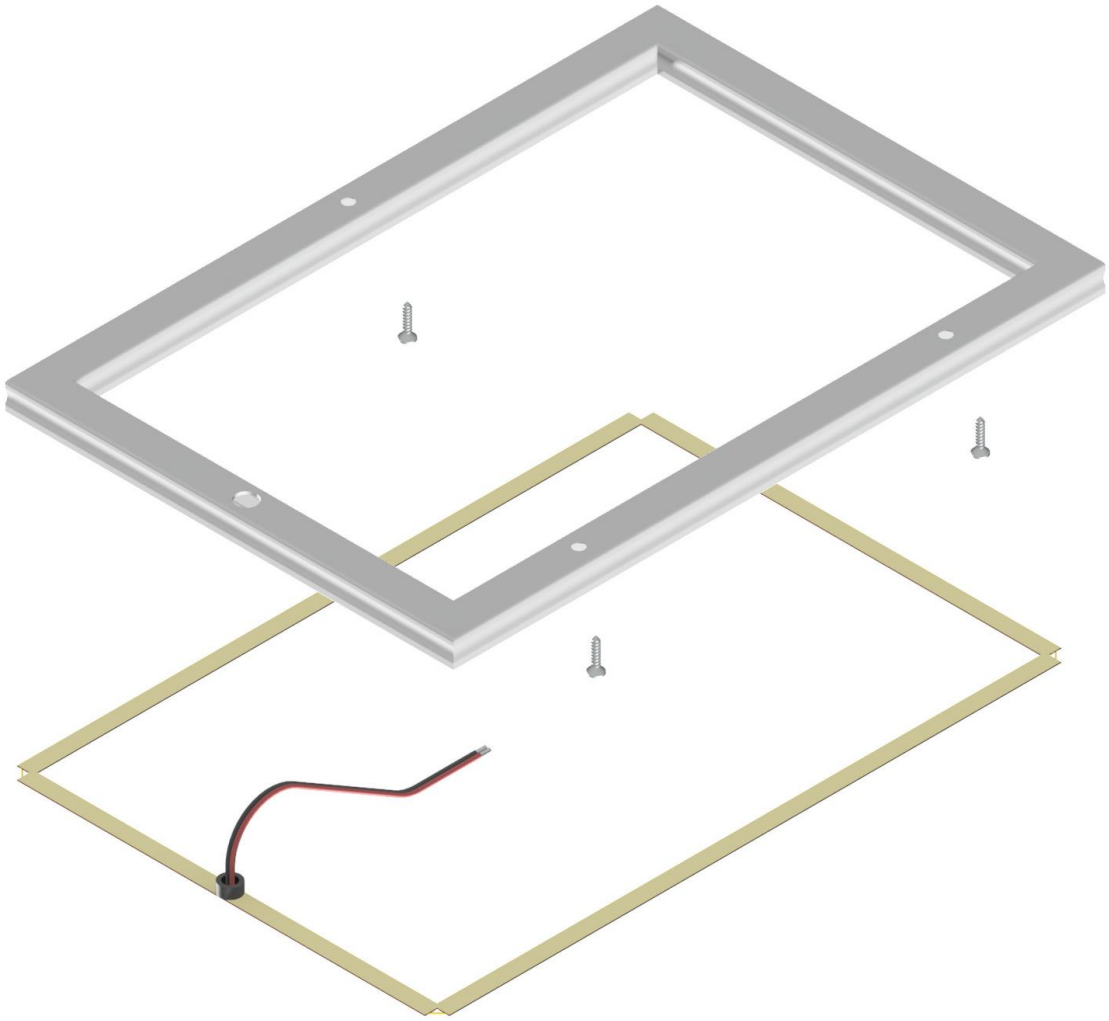
- After the assembly the power cord is not visible
- Stainless steel springs with M4 screws and nuts are included. The number of handles depends on the dimensions of the frame
- The frame comes with tapered holes for screwing the springs directly to the frame
- The mounting surface requires holes with a diameter of 10 mm for the springs
- Minimum 10 mm diameter hole is required in the surface for the power cable entry
- The led module is not installed and needs to be attached by the user
- The LED module has double-sided tape.
- Two-wire power cable is soldered to the LED strip and secured with a bushing
- The frame has a service hole covered with a cap
- Power supply is not included

Mounting code: *MS*



5.3. Surface mounting with screws

Applicable in the assembly of LED frames using screws to a wooden or other surface.



Specification :

- After the assembly the power cord is not visible
- The frame comes with conical holes for screwing to the surface
- Wood screws 3.5mm or M4 screws can be used for installation
- Wood screws 3.5 x 16mm are included.
- Minimum 10 mm diameter hole is required in the surface for the power cable entry
- The led module is not installed and needs to be attached by the user
- The LED module has double-sided tape.
- Two-wire power cable is soldered to the LED strip and secured with a bushing
- The frame has a service hole covered with a cap
- Power supply is not included

Do not install the frame with wall plugs. Due to inaccurate drilling, the bolts will not match the spacing of the holes made in the frame.

Mounting code: *SC*

5.4. Frame suspension

Specification :

- Includes aluminium suspension brackets with wire slider, steel wire, ceiling nipple with M6 thread
- Lock for power cable
- Threaded hole in the frame to screw the lock of power cable
- Two-wire power cable with transparent insulation
- The frame is without any screw holes for mounting
- The led module is not installed and needs to be attached by the user
- The LED module has double-sided tape.
- Two-wire power cable is soldered to the LED strip
- The frame has a service hole covered with a cap
- Power supply is not included

Mounting code: *SN*

6. Ordering info

6.1. Side power cable outlet

Model		Cable outlet		Mounting		LED module		Light colour
	-		-		-		-	
R14-2222		**SO**		**AT**		**LF9R. . . .**		**3000K**
R14-2232		**SI**		**BR**		**LF6R. . . .**		**4000K**
R14-2242		**LO**		**BS**		**LA8R. . . .**		**6000K**
R14-2262		**LI**				**LA8BR. . . .**		**R** – red
								G - green
								B – blue
								Y - yellow

SO - on the shorter piece towards the outside of the frame
SI - on the shorter piece towards the inside of the frame
LO – on the longer piece towards the outside of the frame
LI – on the longer piece towards the inside of the frame
AT - surface mounting with acrylic double-sided adhesive tape.
BR - surface mounting with plastic brackets
BS - plasterboard mounting using holders with a spring

Example code: R14-2242-SO-AT-LF9R2040-4000K

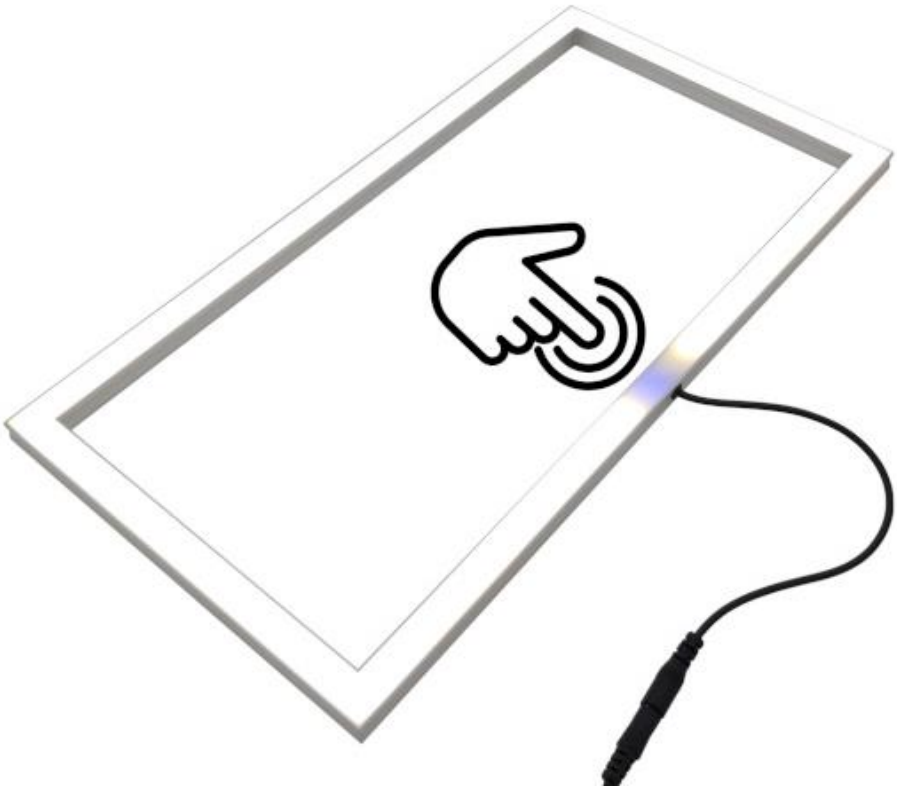
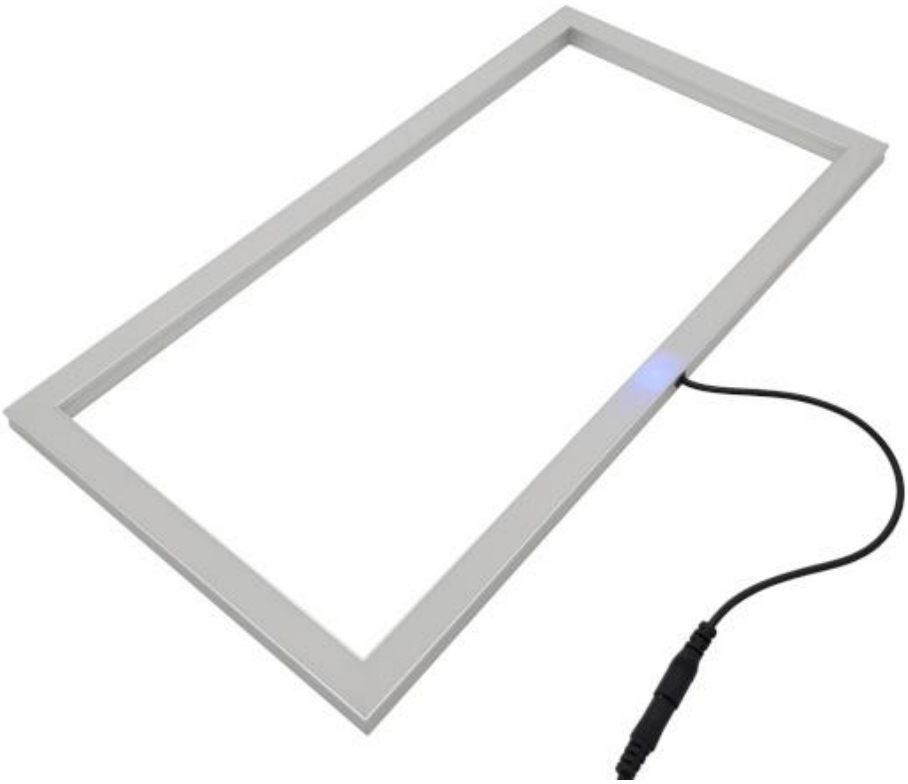
6.2. Bottom power cable outlet

Model		Cable outlet		Mounting		LED module		Light colour
	-		-		-		-	
R14-2222		**SB**		**MT**		**LF9R. . . .**		**3000K**
R14-2232		**LB**		**MS**		**LF6R. . . .**		**4000K**
R14-2242				**SC**		**LA8R. . . .**		**6000K**
R14-2262				**SN**		**LA8BR. . . .**		**R** – red
								G - green
								B – blue
								Y - yellow

SB - on the shorter piece from the bottom of the frame
LB - on the longer piece from the bottom of the frame
MT - surface mounting with acrylic double-sided adhesive tape
MS - plasterboard mounting with a set of spring
SC - surface mounting with screws
SN - frame suspension

Example code: *R14-2232-SB-MT-LF9R2030-4000K*

Custom size aluminum frame and LED module on request.

7. Built in touch switch/ dimmer

The frames can be equipped with a built-in touch switch for switching and dimming the light.