Data Sheet

hansen

Luminous Panel (RGB)

The **hansen** **Luminous Panel** is a very flat light source with a large luminous area. It can be used to backlight acrylic glass panes, banner fabric, posters or similar material.

The **Luminous Panel** consists of a 8 mm thick light-transmitting acrylic glass pane illuminated by LEDs shining into the material from one or two sides. A 3 mm white acrylic glass rear panel attached to the light-transmitting pane reflects the light towards the front.
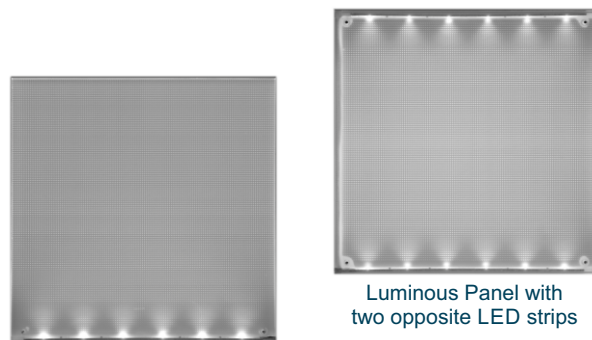
There is no pre-determined height or width, the **Luminous Panel** is made to customer specification.

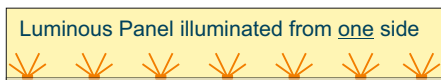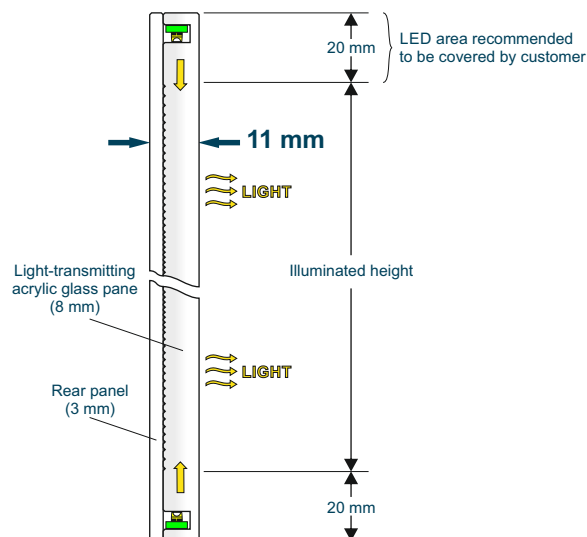| General data:	
Type of connection	Parallel connection
Operating voltage	12 V
Power consumption	15 W/m (one illuminated side)
Light colours	Red / green / blue
	Mixed colours of red / green / blue
LED spacing	15 mm
Circuit board pitch	45 mm
Degree of protection	IP20
Class of protection	III
Ambient temperature range	-25 °C to +65 °C
Residual luminous flux	70% after 50.000 operating hours
Conformity	CE, RoHS
Minimum dimensions	80 x 80 mm
Maximum width	3,000 mm
Max. height (between LED strips)	1,500 mm
Overall depth (thickness)	11 mm (+/- 1.5 mm)
Weight	13 kg/m^2

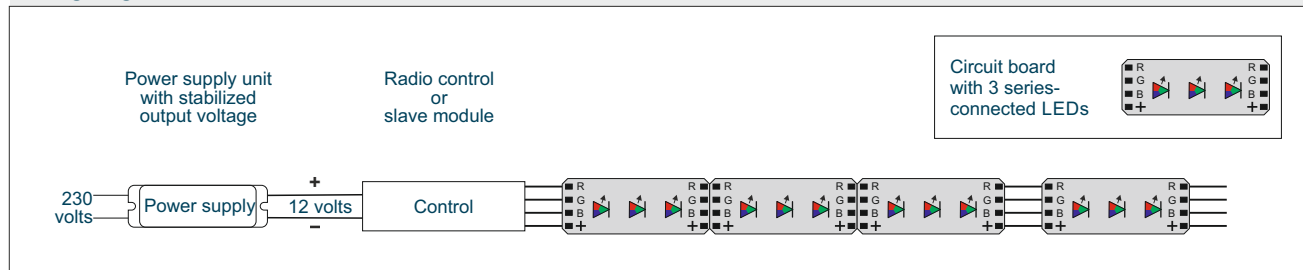| Material properties – PMMA (acrylic):	
Manufacturing process	Casting
Linear expansion	0.07 mm/(m K) (DIN 53752-A)
Reaction to fire	Building material class B2 (DIN 4102)
Flammability	HB (UL 94)

Luminous Panel with
one LED strip

Luminous Panel with
two opposite LED strips

20 mm — LED area recommended to be covered by customer

11 mm

LIGHT

Light-transmitting acrylic glass pane (8 mm)

Illuminated height

Rear panel (3 mm)

LIGHT

20 mm

Luminous Panel illuminated from <u>one</u> side

Luminous Panel illuminated from <u>two</u> sides

Wiring diagram:

Power supply unit
with stabilized
output voltage

Radio control
or
slave module

Circuit board
with 3 series-
connected LEDs

230 volts | Power supply | 12 volts | Control

All values refer to an ambient temperature of +25 °C.

CE

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