



I+D LED introduces an essential device, the GESTURE SENSOR LED CONTROL, designed as a DCDC driver to control linear LED strips in 24/48 V, spotlights or LED modules in constant current, drivers in 0-10V and PWM drivers in luminaires, with the palm of your hand. With a simple gesture we can regulate light, turn on the luminaire and leave it at the desired light intensity value. Ideal for kitchen applications, on furniture and kitchen counter, bathrooms, mirrors, etc. Its diversity of operating modes allows the designer to introduce the sensor to a new stage of lighting development, providing unusual intelligence to the luminaire. Models with IP65 protection box are also available. GESTURE SENSOR LED CONTROL is the perfect fit for domestic or professional applications.



In compliance with:

**EN62384:2007/A1:2010 - EN61547:2013 -
EN61347-1:2009/A1:2013**

APPLICATION



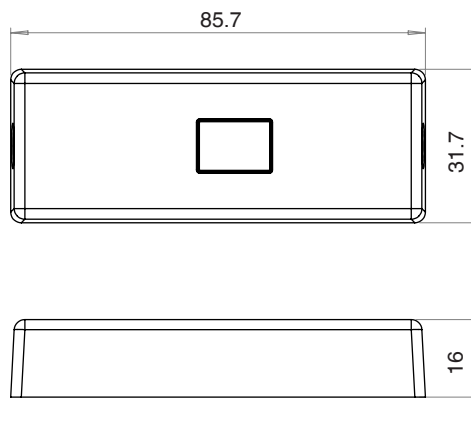
PRODUCT DESCRIPTION

- Dimming in white, ON/OFF
- Total control with a single gesture
- Light control and regulation
- Easy and quick to install
- Quick connectors, Push-In type
- Optional to have IP65 protection
- Low consumption
- Drivers control 0-10V and PWM
- Compact design
- SELV voltage 12-48 Vcc

TECHNICAL DATA

- SELV voltage
- Operating temperature between -5°C and +50°C
- Standard Tc 75°C
- Sensor range 25-30 cm, in straight line
- Weight 20 g – 45 g (box)
- MOQ 50 units
- Controlled and dimmed with your palm hand
- For 0,5-1 mm² wires.
- From IP20 to IP65 protection
- Regulation PWM / 0-10V
- Custom and OEM

DIMENSIONS



(*) Measured in mm

SPECIFIC TECHNICAL DATA

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CODE	INPUT VOLTAGE (V)	MAX OUTPUT POWER (W)	CURR. (A)	ROOM. TEMP (°C)	DIM (mm)	COLOR	PROTOCOL	IP	BOX	DIST (cm)	QTY DRIV.
31.40.GS.PMW	12-48	SIGNAL	N/A	-5 to +50	60x19,8x6,5	RED BOARD	GESTURE	20	NO	30	10-15
31.40.GS.PMW. IP65	12-8	SIGNAL	N/A	-5 to +50	85,7X31,7X16	BLACK BOX	GESTURE	65	YES	25	10-15
31.40.GS.CV	12-48	100	2	-5 to +50	60x19,8x6,5	RED BOARD	GESTURE	20	NO	30	N/A
31.40.GS.CV.IP65	12-48	100	2	-5 to +50	85,7X31,7X16	BLACK BOX	GESTURE	65	YES	25	N/A
31.40.GS.010V	12-48	SIGNAL	N/A	-5 to +50	60x19,8x6,5	RED BOARD	GESTURE	20	NO	30	10-15
31.40.GS.010V. IP65	12-48	SIGNAL	N/A	-5 to +50	85,7X31,7X16	BLACK BOX	GESTURE	65	YES	25	10-15
31.40.GS.CC.200	12-48	48	1A	-5 to +50	60x19,8x6,5	RED BOARD	GESTURE	20	NO	30	N/A
31.40.GS.CC.350	12-48	48	1A	-5 to +50	60x19,8x6,5	RED BOARD	GESTURE	20	NO	30	N/A
31.40.GS.CC.400	12-48	48	1A	-5 to +50	60x19,8x6,5	RED BOARD	GESTURE	20	NO	30	N/A
31.40.GS.CC.500	12-48	48	1A	-5 to +50	60x19,8x6,5	RED BOARD	GESTURE	20	NO	30	N/A
31.40.GS.CC.700	12-48	48	1A	-5 to +50	60x19,8x6,5	RED BOARD	GESTURE	20	NO	30	N/A
31.40.GS.CC.200. IP65	12-48	48	1A	-5 to +50	85,7X31,7X16	BLACK BOX	GESTURE	65	YES	25	N/A
31.40.GS.CC.350. IP65	12-48	48	1A	-5 to +50	85,7X31,7X16	BLACK BOX	GESTURE	65	YES	25	N/A
31.40.GS.CC.400. IP65	12-48	48	1A	-5 to +50	85,7X31,7X16	BLACK BOX	GESTURE	65	YES	25	N/A
31.40.GS.CC.500. IP65	12-48	48	1A	-5 to +50	85,7X31,7X16	BLACK BOX	GESTURE	65	YES	25	N/A
31.40.GS.CC.700. IP65	12-48	48	1A	-5 to +50	85,7X31,7X16	BLACK BOX	GESTURE	65	YES	25	N/A

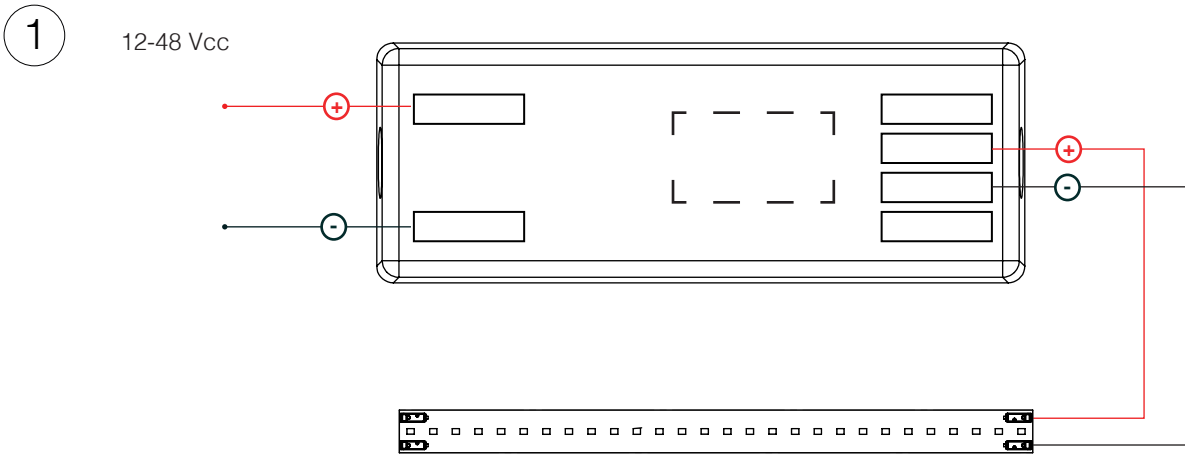
Note: All available data hereby exposed has been taken at 35°C of temperature.

INSTALLATION EXAMPLE AND USAGE

1. Connect device to power $V_{in}=12-48\text{ Vcc}$. Connect the LED to V_{out} as indicated by the drawing 1.
Note: insert IN and OUT wires through the cable grommet at the box sides when choosing for IP65 box.
2. Place the sensor inside its box. The optical sensor parts (cover and base) must coincide perfectly, as indicated by the drawing 2.
3. Sensor is installed. Place/stick the double sided tape over sensor's base or cover, depending on the required design.
4. Remove upper film tape and stick the sensor on the lower side of the furniture or desired place, as indicated by the drawing 4.
5. Operating gestures:
 - 5.1. ON/OFF: Move the palm of your hand on a moderate speed from right to left or vice versa to switch LED on and off.
 - 5.2. Dimming DOWN: Move the palm of your hand towards the sensor in a straight line.
 - 5.3. Dimming UP: Move the palm of your hand away from the sensor in a straight line.

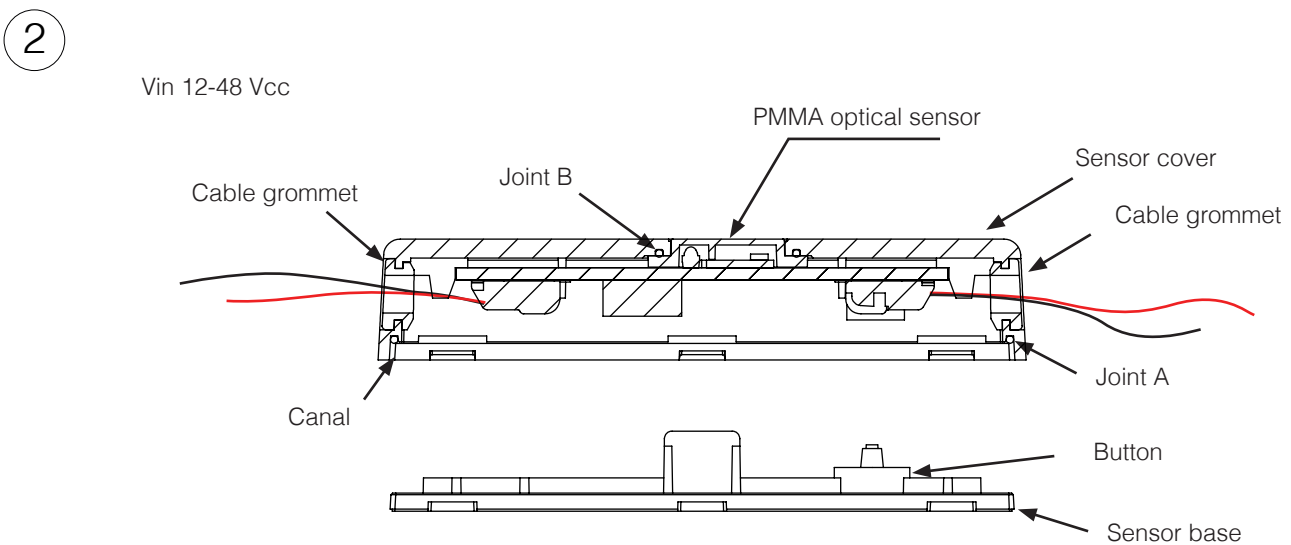
IMPORTANT REMARKS

1. Moderate speed movements for the sensor refer to a hand wave gesture of 0,5-1 seconds long in front of the sensor.
2. For UP or DOWN dimming options, once the light intensity value has been selected, the user should remove the hand to the right or left with a fast hand wave movement to keep the selected dimming intensity.
3. At 3 cm from the sensor, light intensity will be at 10%.
4. At 30 cm from the sensor, light intensity will be at 100%. At 24,6 cm from the sensor, light intensity will be at 80%.



Connect to power supply, and led charge.

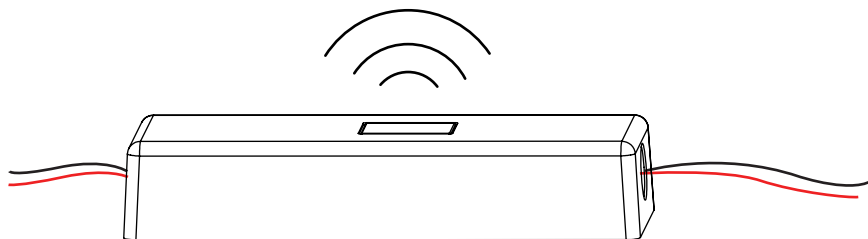
Note: Insert IN and OUT wires through cable grommet at the box sides.



Place the sensor in its box, make sure the optical sensor adjust in and the cover by pressing on the base.

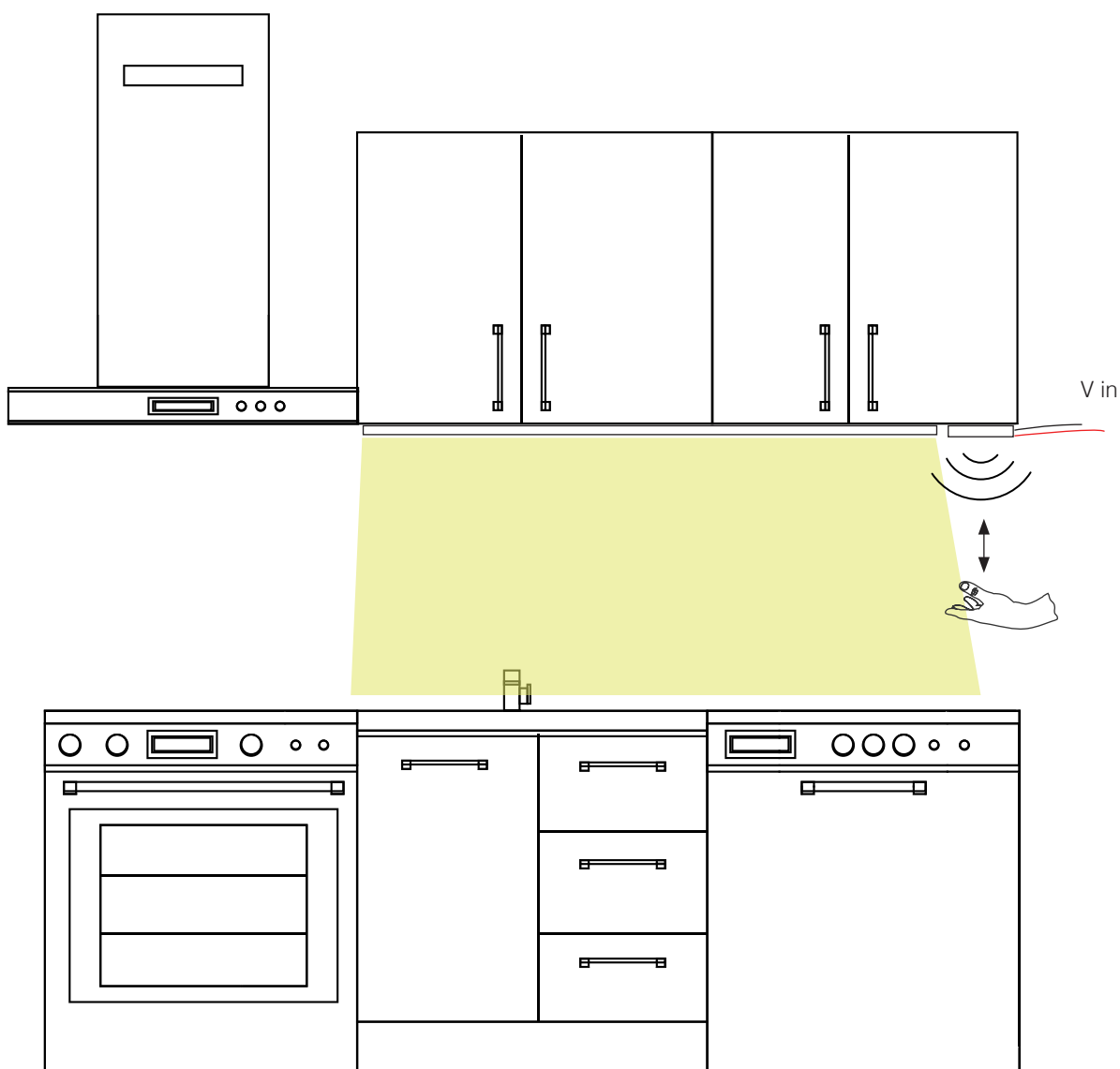
Note: Before pressing the base, make sure that the joint A is properly placed in the channel of the sensor cover and the button placed in the sensor base.

3



Connected product.

4



Move your hand as indicated in the drawing.

Dimming down 10% intensity at 3 cm distance from sensor.

Dimming up 80% intensity at 24,6 cm distance from sensor.

SECURITY AND INSTALLATION INFORMATION



ELECTRICAL POWER

LENKER GESTURE SENSOR CONTROL must be feed at constant current; the energy source power must be in accordance with the quantity of connected modules for proper functioning of the module (or group of modules). Family LENKER GESTURE SENSOR CONTROL has polarity, for this reason rated current, nominal power and polarity must be taken into account. If that is not the case, the module might be irreversibly damaged. Family LENKER GESTURE SENSOR CONTROL require specific driver protection against short-circuit currents, temperature raise and overloads.



ISOLATION

LENKER GESTURE SENSOR CONTROL functions with SELV voltage, it does not require active isolation of the component as long as maximum reference SELV voltage is not exceeded. In other case, it will be mandatory earth connection on all conductive components of the fixture or light engine when the number of modules in the series exceeds SELV voltage. The driver must be in compliance with CE, UL or valid analogous regulation.



ESD – STATIC ELECTRICITY INFORMATION

LENKER GESTURE SENSOR CONTROL contains electronic components which are very sensible to static electricity. In this respect is it highly recommendable to always manipulate the items with appropriate ESD protection, and take adequate measures for safety matters. If you need further information please refer to our webpage www.idled.eu.



MOUNTING AND INSTALLATION

I+D LED S.L. is not responsible for the installation of the product. LENKER GESTURE SENSOR CONTROL must be perfectly placed (and/or stick) on the lighting device, profile or base for a proper connection between modules and power source, respecting its nominal values and connection types according to the different LED modules as described in this data sheet.

If any type of chemical substance is used during the assembly of the luminaire or light engine, it must not have any type of curing by means of gas condensation; as these chemical substances may damage the LEDs and electronic components.

LENKER GESTURE SENSOR CONTROL modules must be introduced carefully inside the system or luminary. The lower side of the module (optics) is the most fragile part of it. It is required to work with care in order to not damage the device. The installation must be done with ESD protection.

Always avoid mechanical stress, compression stress or superficial voltage stress over the electronic components and/or driver holder. Ideal wire for this connection type is strand or solid wire, unipolar or multipolar wire of 0,5-1mm².



TEMPERATURE

LENKER GESTURE SENSOR CONTROL life-time depends to a great extent on operating temperature. Under no circumstance temperature should exceed the maximum permissible room temperature (Tc=50°C) limit here indicated. Exposure to higher temperatures might affect its long term proper functioning. Room temperature must be measured under worst-case conditions to ensure life-time and keep product's guarantee. Store modules between -20°C and +70°C, and at a maximum humidity level of 65%.