

# ledix

## Proximity switch WDN-04



Surface  
mounting



Indoor  
mounting only

The WDN-04 proximity switch is used to switch on or switch off the light without touching. The switch is activated by placing a hand close to the surface under which the sensor is mounted. This method of control does not require a direct contact with the sensor. For this reason, it can be mounted (for example, in the kitchen countertop) and completely invisible to the user. The aesthetics of WDN-04 control recommends its use in kitchen and bathroom furniture.

The WDN-04 sensor is equipped with a wire 2,5 m long. Because of its dimensions, it is applied to be used in openings with 35 mm diameter. The sensor can be mounted in wood, glass, stone and other materials excluding the ones with metal.

**Regardless of the material, it is recommended that the space above the sensor is not bigger than 10 mm. This allows for the best detection sensitivity. With reference to the recommended sensor mounting, a hand distance is detected from 10 to 40 mm (depending on the material).**

The WDN-04 switch is supplied with 230V AC. It has a voltage output with a maximum load of 300 W. The switch is dedicated to control traditional (conventional light bulbs, halogens) and low-voltage (12 V AC halogens, LED diodes) light sources. In order to control the low-voltage sources, it is necessary to connect an appropriate power supply or transformer system to the switch output.

The switch is designed to be mounted on surfaces with a possibility to be screwed to it. It meets the required safety standards and can also be installed on flammable materials, e.g. wood, furniture boards and plasterboard.

### Features:

- sensor designed to be built-in, invisible for the user,
- hand proximity detection from a distance of 10 to 40 mm,
- sensor's dimensions are adjusted to a standard opening of 35 mm,
- power supply voltage 230 V AC,
- low power consumption during stand-by mode (0,25 W) – adjusted to a continuous operation,
- voltage output 230 V AC,
- the relay contact with a maximum load of 5 A / 250V AC,
- a possibility of switching on / switching off any 230 V AC receiver,
- control aesthetics – recommended to kitchen and bathroom furniture,
- switch used to surface mounting with a possibility to screw.

A detailed mounting description is inside the packaging.

zaMeL cet

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230 V AC / 0,9 W; IP20  
weight: 50 g



The symbol means selective collecting of electrical and electronic equipment.  
It is forbidden to put the used equipment together with other waste.



Declaration of Conformity is at [www.ledix.pl](http://www.ledix.pl)

WDN-04 PL Ver. 01



zaMeL cet

## Proximity switch WDN-04 WDN-04

230 V AC  
ledix

Switch  
sensor

cable length:  
2,5 m

## DESCRIPTION

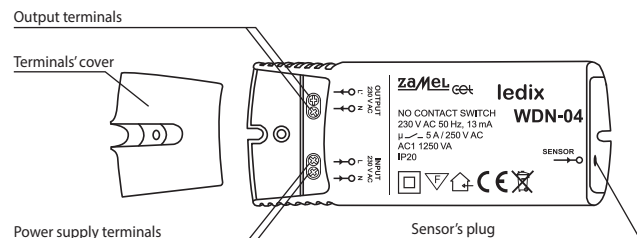
The WDN-04 proximity switch is used to switch on or switch off the light without touching. The switch is activated by placing a hand close to the surface under which the sensor is mounted. This method of control does not require a direct contact with the sensor, which can be built-in or invisible for the user. The aesthetics of WDN-04 control recommends its use in kitchen and bathroom furniture. The WDN-04 sensor is equipped with a wire 2,5 m long. Because of its dimensions, it is applied to be used in openings with 35 mm diameter. The sensor can be mounted in wood, glass, stone and other materials excluding the ones with metal. The WDN-04 switch is supplied with 230V AC. It has a voltage output with a maximum load of 300 W. The switch is dedicated to control traditional (conventional light bulbs, halogens) and low-voltage (12 V AC halogens, LED diodes) light sources. In order to control the low-voltage sources, it is necessary to connect an appropriate power supply or transformer system to the switch output. The switch has small dimensions and is designed for surface mounting with a possibility to be screwed to it. WDN-04 meets the required safety standards and can also be installed on flammable materials, e.g. wood, furniture boards and plasterboard. The switch features:

- sensor designed to be built-in, invisible for the user,
- hand proximity detection from a distance of 10 to 40 mm,
- sensor's dimensions are adjusted to a standard opening of 35 mm,
- power supply voltage 230 V AC,
- relay output voltage 230 V AC,
- relay contact maximum load 5A / 250V AC,
- a possibility to control any light source,
- small dimensions of a sensor and switch,
- surface mounting with a possibility of surface screw.

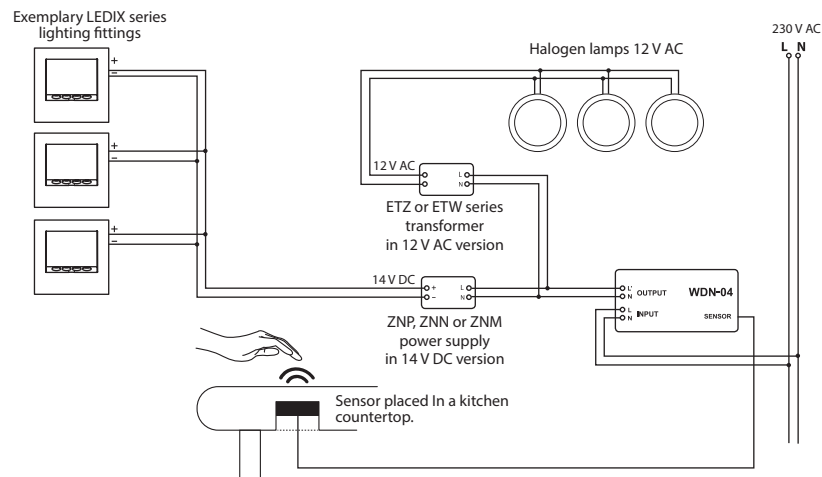
## TECHNICAL DATA

Nominal supply voltage:	230 V AC
Nominal power consumption:	0,25 W – stand-by; 0,9 W – with operating output
Number of channels:	1 x voltage output 230 V AC
Relay contact parameters:	5 A for 250 V AC (1250 VA)
Output circuit nominal load:	300 W
Sensor's cable length and diameter:	2,5 m / 4 mm
Sensor's dimensions:	Diameter 35 mm, Thickness 11,5 mm
Sensor's connection:	Jack plug 3,5 mm
Number of terminal clamps:	4
Section of connecting cables:	Up to 2,5 mm <sup>2</sup>
Ambient temperature range:	-10 ÷ +55 °C
Operating position:	free
Switch mounting:	Surface – a possibility to screw to the mounting surface
Casing protection degree:	IP20
Protection level:	II
Dimensions:	41,5 x 95 x 27,5 mm
Weight:	50 g
Reference standard:	EN 60669; EN 61000

## APPEARANCE



## DIAGRAM:



## FUNCTIONING

**Switching on the light:** placing a hand close to the surface where the sensor is mounted.

**Switching off the light:** placing again a hand close to the surface where the sensor is mounted.

The switch has some functions implemented that protect it against accidental release during fast hand movement over the surface under which the sensor is mounted. This allows, for example, to clean the countertop without the effects of accidental switching on / switching off the light.

## SWITCH MOUNTING

**CAUTION! The connection of WDN-04 switch to a single-phase installation and must be done in accordance with standards valid in a particular country. Installation, connection and control should be carried out by a qualified electrician staff, who act in accordance with the service manual and the device functions.**

1. Disconnect power supply by the phase fuse, the circuit-breaker or the switch-disconnector combined to the proper circuit.
2. Check if there is no voltage on connection cables by means of a special measure equipment.
3. Connect the wdn-04 device to 230V AC voltage.
4. Connect other wires (of the receiver and the sensor) to proper terminal clamps of WDN-04 switch in accordance with the connection diagram.
5. Mount the switch and the sensor in their final place.
6. Switch on the power supply from the mains, wait around 10 seconds and check the proper functioning of the device.

## SENSOR MOUNTING

- The sensor is designed to be mounted in openings with 35 mm diameter.
- Regardless of the material, it is recommended that the space above the sensor is not bigger than 10 mm. This allows for the best detection sensitivity. With reference to the recommended sensor mounting, a hand distance is detected from 10 to 40 mm (depending on the material). If necessary (e.g. kitchen countertops 28 or 38 mm thick), it is recommended to make an opening > 18 mm or > 28 mm with a diameter of 35 mm in order to place a sensor in it.
- Detection sensitivity depends on the material the sensor is mounted in and the depth of its placement.
- Typically, a hand is detected from a distance of 10 to 40 mm.

