

# Datasheet & Operating instructions

## Model: D1-PF

RF controller for single-color LED strip, 1 channel  
IP20, flush-mounted installation



2.4G



## Electrical data

<b>Input voltage</b>	12...48 Vdc	
<b>Output voltage</b>	12...48 Vdc	
<b>Output current</b>	6 A max.	12...24 Vdc
	5 A max.	36...48 Vdc
<b>Output power</b>	72 W max.	12 Vdc
	144 W max.	24 Vdc
	180 W max.	36 Vdc
	240 W max.	48 Vdc
<b>Input signal</b>	RF 2.4 GHz, PUSH	
<b>Output signal</b>	PWM	
<b>PWM frequency</b>	500 Hz, 2 KHz, 8 KHz, 16 KHz	
<b>Control distance</b>	30 m (barrier-free)	
<b>Dimming range</b>	0...100 %	
<b>Dimming level</b>	4096	
<b>Dimming curve</b>	Linear / logarithmic	
<b>Life time</b>	5 years	

## Operating condition

<b>Operating temperature range (ta)</b>	-20...+55 °C
<b>Max. surface temperature (tc)</b>	73 °C
<b>Type of protection</b>	IP20

## Protection

<b>Short circuit protection</b>	Yes
<b>Overheating protection</b>	Yes
<b>Reverse protection</b>	Yes

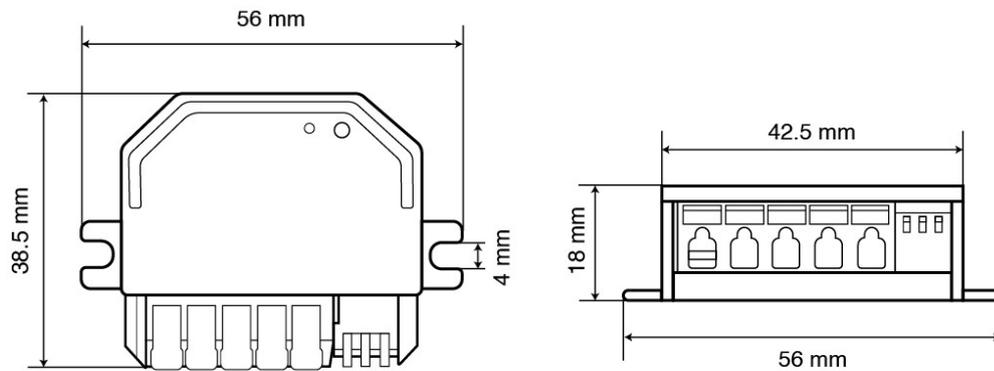
## Standards

<b>Standards</b>	EN 55015, EN 61547
	EN 301489-1, EN 301489-17
	EN 61347-1, EN 61347-2
<b>Radio Equipment</b>	EN 300328, EN 300440
<b>Marking</b>	CE, RoHs

## Wiring connection

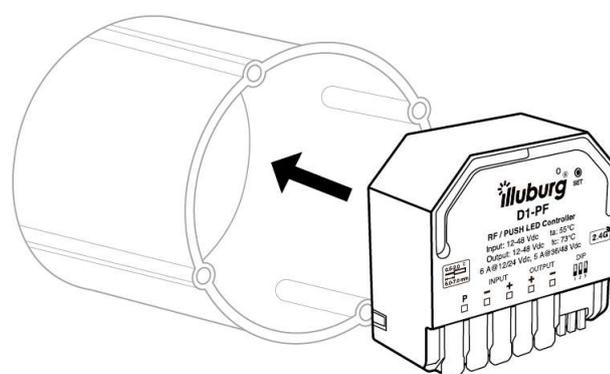
Type of connection	Spring lever terminal
Cable cross-section	0.5...2.0 mm <sup>2</sup>
Cable preparation length	4...5 mm

## Dimension



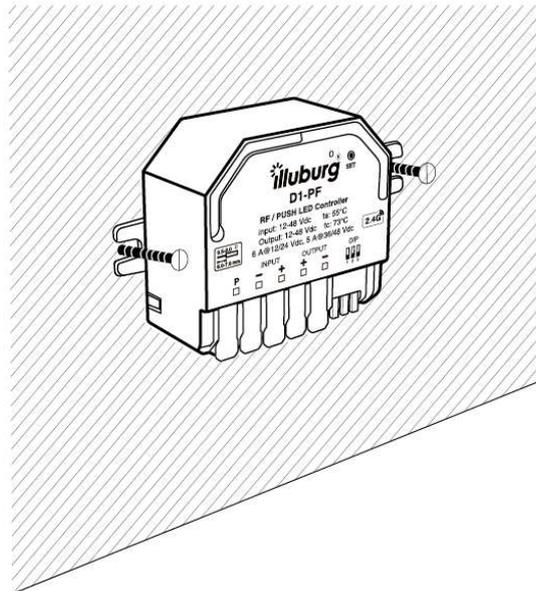
## Installation

Flush-mounted installation

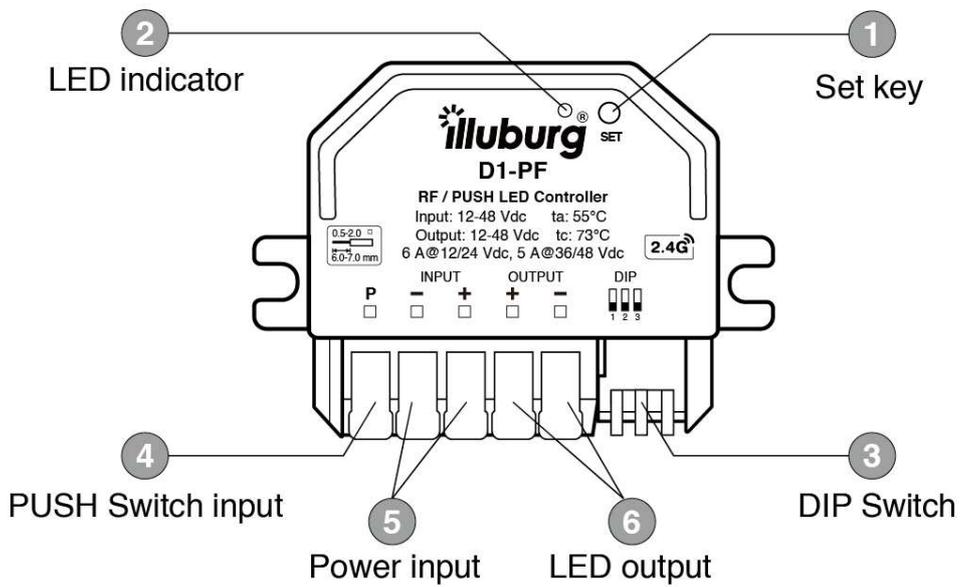


$\text{Ø} \geq 55 \text{ mm}$

DIN-rail installation



Settings



1	<b>Set key</b>	<ul style="list-style-type: none"> <li>- Match / delete remote control</li> <li>- Set the fade time for light on/off</li> </ul>
3	<b>DIP switch</b>	<ul style="list-style-type: none"> <li>- Set the PWM frequency</li> <li>- Set the dimming curve</li> </ul>



## Match/delete remote control

**Match:** Short press the set key, then immediately short press the on/off button on the remote control.

**Delete:** Press and hold the set key for 10 seconds, the indicator light blinks fast and all matches are then deleted.

## Fade time for light on/off

Long press the set key for 10 seconds, and the light on/off fade time is set to 0.5 seconds (default). Long press the set key for 15 seconds, and the light on/off fade time is set to 3 seconds.

## PWM frequency

The PWM frequency can be set to 500Hz, 2KHz, 8KHz or 16KHz.

Higher PWM frequency results in lower output current, higher power supply noise and better video shooting quality (without flicker).

## Dimming curve

The dimming curve can be set to linear or logarithmic.

## PUSH dimming

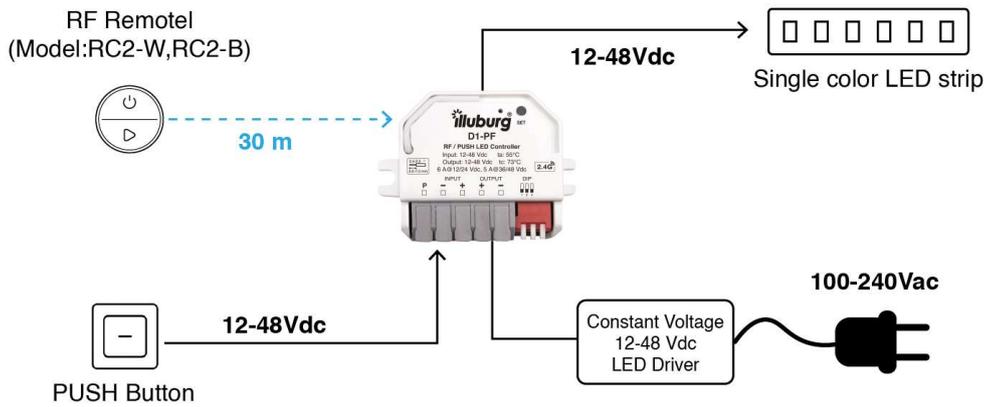
The dimmer allows control using a self-reset PUSH switch with connecting wire not exceeding 20m.

- Short press: turn on / off the lights. The lights turn on with the same brightness as turned off last time (memory).
- Double click: Switch between 10% and 100% brightness.
- Long press for 1 to 6 seconds: dim the lights up / down.
- Long press for 10 seconds: synchronize all lights and dim them up to 100 %.

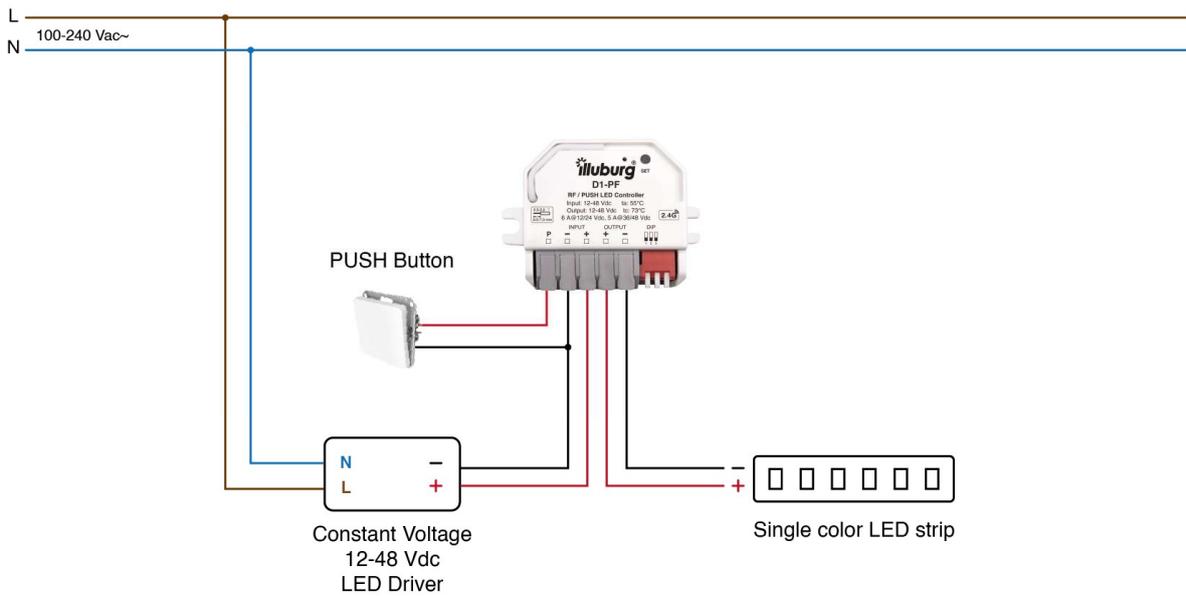
## Connection

### Dimming System

—— Wired connection  
 - - - - - Wireless connection



### PUSH Dimming





## Important notice

Download the safety instructions at [www.illuburg.de/infocenter](http://www.illuburg.de/infocenter), read them carefully and observe the listed instructions and information for proper use.

## Disclaimer of liability

Subject to changes and errors excepted. Make sure you are using the latest version.

## Manufacturer Information

If you have any further questions, please contact our technical support.

HuaTec GmbH  
Droopweg 31  
20537, Hamburg, Germany

Telefon: +49 40 236448800  
E-Mail: [info@illuburg.de](mailto:info@illuburg.de)  
Website: [www.illuburg.de](http://www.illuburg.de)

