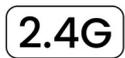
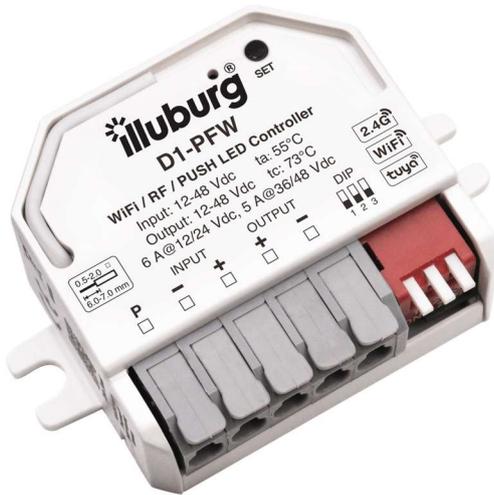


Datasheet & Operating instructions

Model: D1-PFW

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



Electrical data

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

Operating condition

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

Protection

Short circuit protection	Yes
Overheating protection	Yes
Reverse protection	Yes

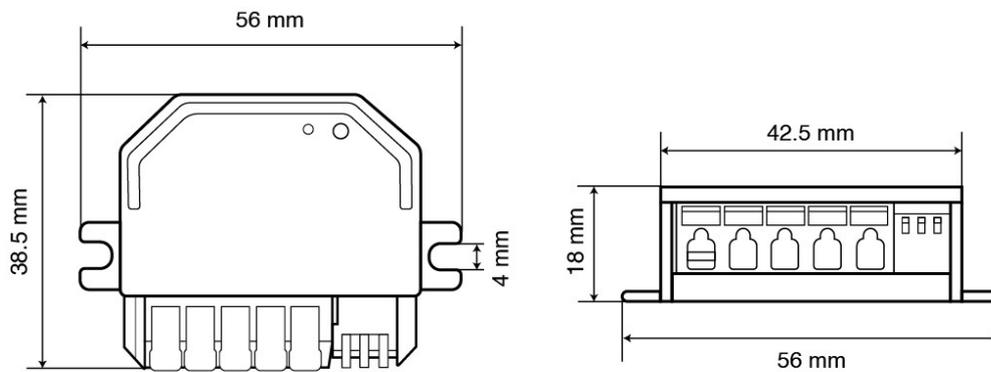
Standards

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

Wiring connection

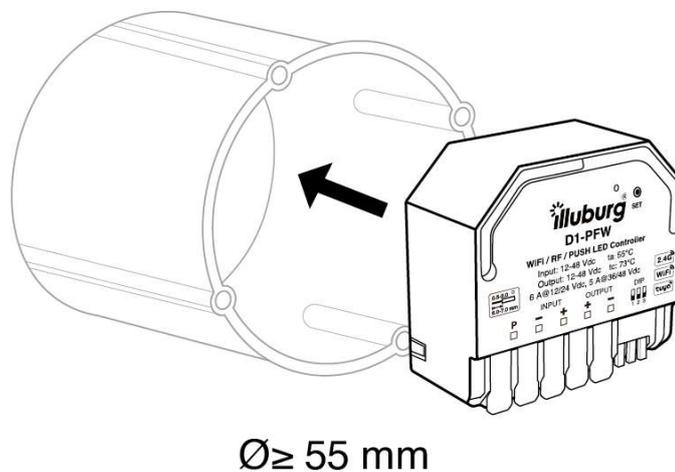
Type of connection	Spring lever terminal
Cable cross-section	0.5...2.0 mm ²
Cable preparation length	4...5 mm

Dimension

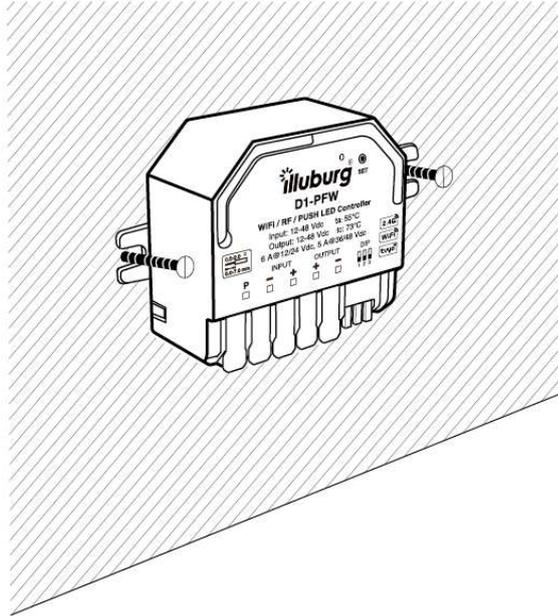


Installation

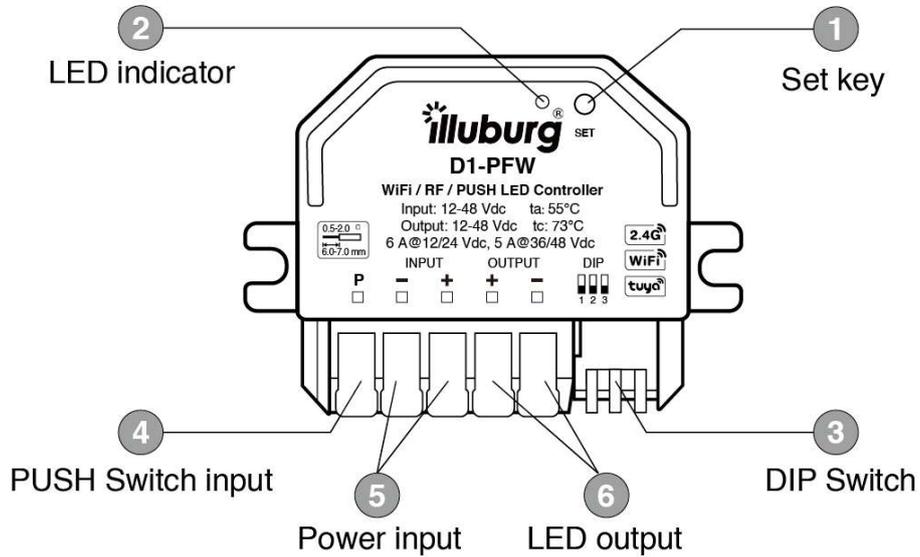
Flush-mounted installation



DIN-rail installation



Settings



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



Wireless Connection

Begin setup: Keep your smartphone's WiFi turned on. Press and hold the set key for 5 seconds. The indicator light flashes rapidly and the setup is ready. Please note that the device can only connect via 2.4 GHz WiFi.

App pairing: Open Tuya Smart or Smart Life App, select "Add Device", and the App will search for the controller automatically. Once the connection is built, the indicator will stop flashing.

Bluetooth as backup: If the WiFi signal is weak, you can also control the device via Bluetooth. Please note that the initial configuration can only be applied via WiFi.

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 15 seconds, and the light on/off fade time is set to 0.5 seconds (default). Long press the set key for 20 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.

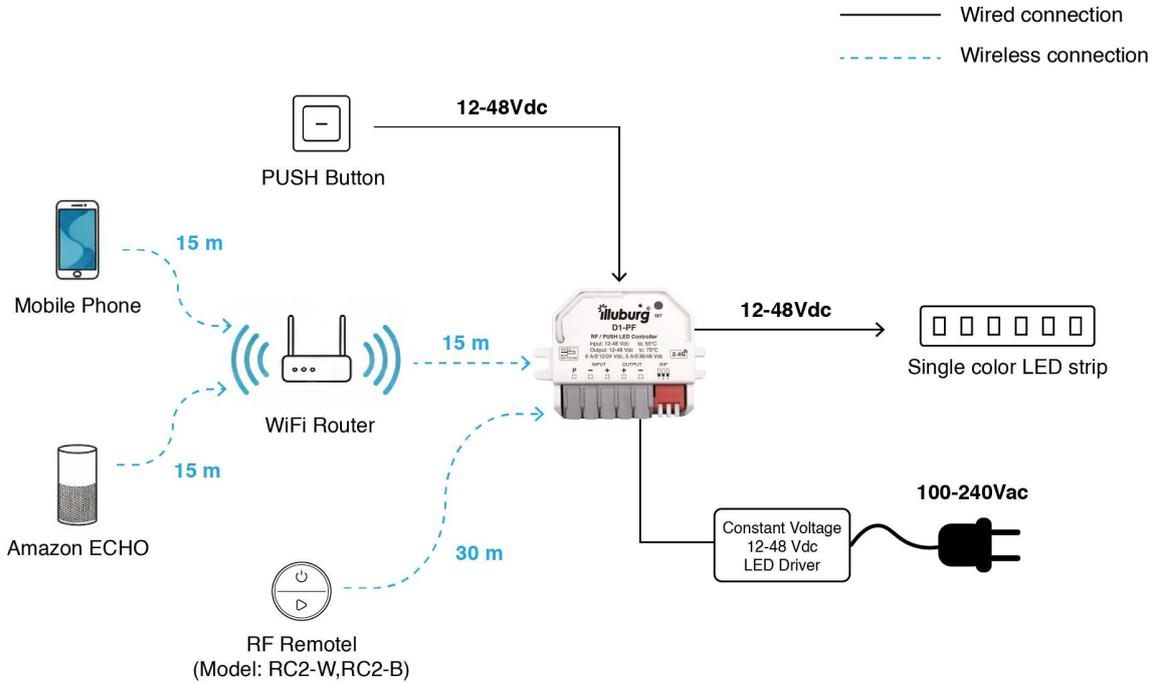
PUSH dimming

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

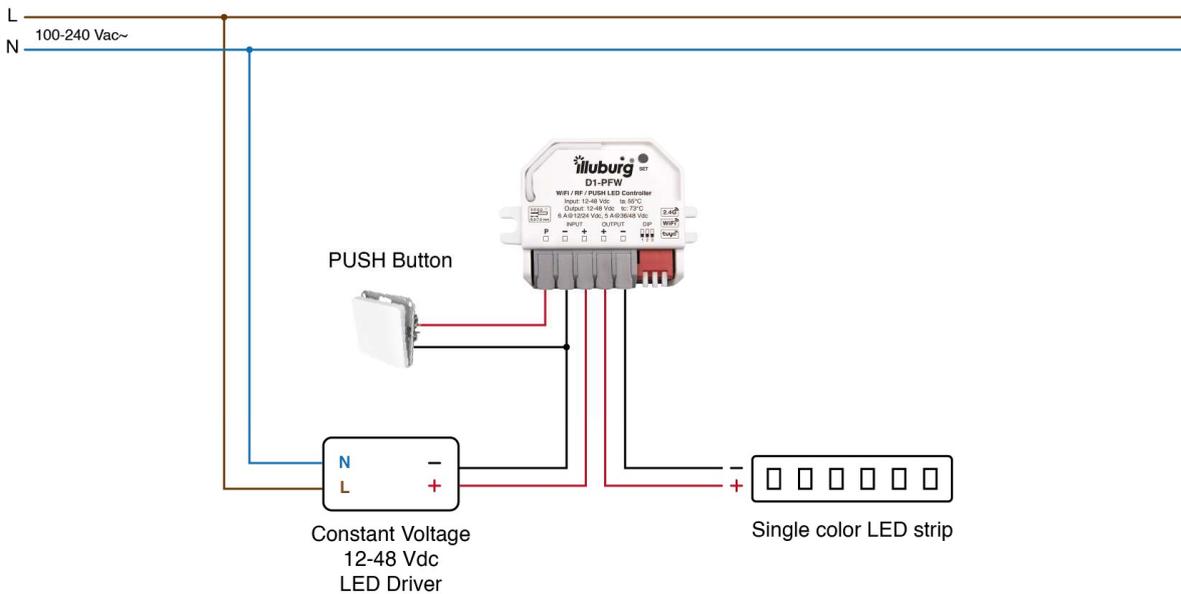
- Short press: turn on / off the lights. The lights turn on with the same brightness as turned off last time (memory).
- Double click: Switch between 10% and 100% brightness.
- Long press for 1 to 6 seconds: dim the lights up / down.
- Long press for 10 seconds: synchronize all lights and dim them up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

Connection

Dimming System



PUSH Dimming





Important notice

Download the safety instructions at 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.

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