

  
FandF Wi-R1S1-D 1  
Channel Wi-Fi Relay for  
DIN Rail Fox Module



# FandF Wi-R1S1-D 1 Channel Wi-Fi Relay for DIN Rail Fox Module User Guide

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**FandF Wi-R1S1-D 1 Channel Wi-Fi Relay for DIN Rail Fox Module**



## Specifications

- Product Name: Single Switch-D
- Model: Wi-R1S1-D
- Channels: 1
- Mounting: DIN rail
- Manufacturer: F&F Filipowski L.P.
- Address: Konstantynowska 79/81, 95-200 Pabianice, PL
- Website: [www.fif.com.pl/fox/singleswitch-d](http://www.fif.com.pl/fox/singleswitch-d)
- Email: [biuro@fif.com.pl](mailto:biuro@fif.com.pl)

## Product Usage Instructions

### First Launch and Personalization

1. Connect the device to power supply.
2. Launch the Fox app on your phone.
3. Select the settings icon and then choose Add new device.
4. Follow the app instructions to link the device to your phone and user account.
5. Make sure to carry out personalization near the controller for a stable connection.

### LED Signaling and Troubleshooting

The STATUS light on the device indicates various statuses:

- Grey color (green LED) – Controller in factory mode
- Black color (red LED) – No connection to Wi-Fi network

- Other statuses are indicated as needed

### **Restore Factory Settings**

If you encounter issues, restore factory settings by pressing and holding the PROG button while the controller is operating.

### **FAQ**

#### **Q: Can the Single Switch-D work with backlit buttons?**

A: No, it is recommended to use monostable buttons with the Single Switch-D as it is not adapted for backlit buttons.

### **System capabilities**

- Communication via home Wi-Fi network;
- Remote access to devices via the Polish F&F cloud;
- Integration with Google and Google Home voice assistant;
- Ability to work autonomously, without a Wi-Fi connection;
- Advanced programmable timers based on online calendars and enhanced with astronomical functions;
- Free mobile applications for Android and iOS.

### **Properties**

- Separated relay output with changeover contact, rated up to 16 A;
- Possibility of connecting an external push button for local control of the unit;
- Receiver control via mobile app and time programmers;
- Built-in RTC clock with power supply backup and local copy of settings guarantees correct operation of the programmer even in the event of lack of Wi-Fi connection;
- Support for REST API and MQTT allowing the controller to integrate with external systems (including but not limited to Home Assistant);
- Built-in antenna;
- DIN rail mounting;
- 1S housing.

### **Configuration**

For the initial configuration of the Fox module, it is necessary to download and run the free Fox application available for mobile devices running the system:

- Android, version 8.0 or higher;
- iOS, version 14 or higher.

You can download the app directly from the stores:



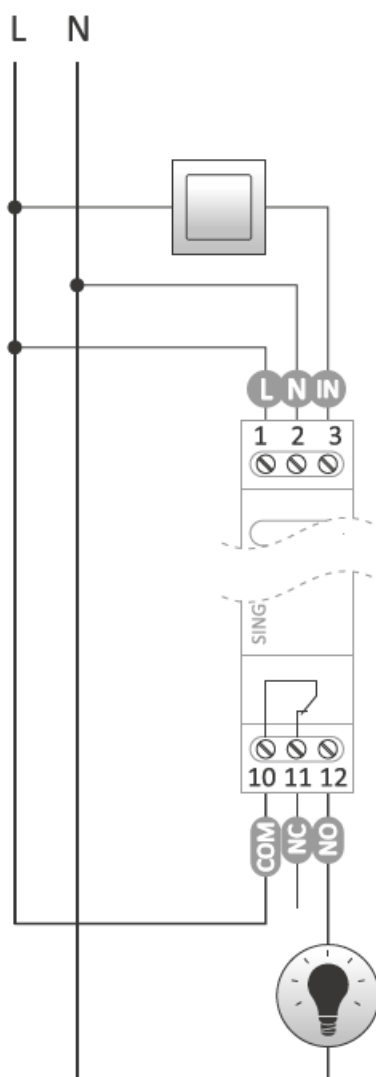
or via the website:

[www.fif.com.pl/fox](http://www.fif.com.pl/fox)



On the above page, you can also find detailed information on how to configure and operate the devices and the Fox mobile app.

## Wiring diagram



## Description of terminals

1. power supply – phase wire
2. power supply – neutral wire
3. local control button input


- 10 COM – common contact for internal relay
- 11 NC – normally closed contact for internal relay
- 12 NO – normally open contact for internal relay

It is recommended to use monostable (momentary) buttons. When using bistable buttons, at most one pushbutton can be connected to the input.

The Single Switch-D controller is not adapted to work with backlit buttons.

## First launch

Once you have connected your new device to the power supply, it is advisable to carry out personalisation, i.e.

linking it to your phone and user account. To do this, launch the Fox app, select the settings icon  , then the Add new device command.

- If you are running the application on your phone for the first time, follow the programme's instructions to register a user account or log in to an existing account, then select Fox Wi-Fi: Search and configure wireless devices.
- Personalisation of the controller takes place via a direct connection. Due to the limited range of such a connection, it is recommended to carry out personalisation standing directly at the controller.
- Fox controllers only support 2.4 GHz Wi-Fi connections. It is not possible to connect the controller to a 5 GHz network!
- Once the search process is complete, the new Fox devices will be displayed.

**The Single Switch-D module will appear in the list as follows**



To add a new device, you must first connect to it (press the Connect button) and, once it has been established (figure below), press the Configure button and continue following the instructions of the application.

## ← Wykryte urządzenia

Dodaj wybrane urządzenia do swojej listy.  
Wybierz jedno urządzenie, aby je skonfigurować.



SWITCH  
SWITCH



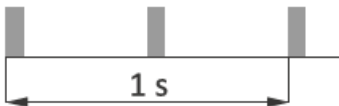
Skonfiguruj

## LED signalling

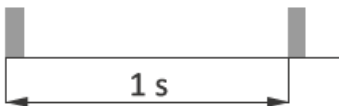
The status of the module can be directly assessed by the STATUS light located on the front of the device.  
The grey color actually corresponds to the green LED and the black color to the red LED.



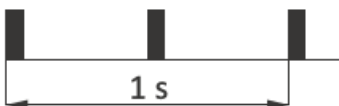
Controller  
in factory mode



Connecting to  
a Wi-Fi network



Connection to Wi-Fi  
network established



No connection  
to Wi-Fi network



Restoring firmware

## Restore factory settings

If you are unable to access the controller, we recommend that you restore the controller to factory settings and reconfigure it using the Fox app.

### To restore the factory settings, proceed as follows

1. While the controller is operating, press and hold the PROG button on the front of the controller. When the button is pressed, the green LED will start to flash rapidly.

2. After about 5 seconds, the LED will turn off and you should release the PROG button.
3. Press the PROG button briefly, the green LED will light up again.
4. Press and hold down the PROG button. After about 3 seconds, the previously switched on green LED control light will start to flash. After another 3 seconds, it will go out and the red LED light up.
5. Release the button – after a few seconds the indicator LED will turn green and the controller will restart.
6. After completing this procedure, the access passwords and parameters for remote access have been cleared.  
You can now search for your device again in the app and personalize it again.

## Technical data

- power supply 165÷265 V AC
- control input 1
- type digital
- galvanic separation brak
- control voltage 165÷265 V AC
- control pulse current <2 mA
- outputs 1
- type relay
- contact NO/NC
- galvanic separation tak
- maximum load current\*
- resistive load 16 A
- contact voltage 250 V AC
- power consumption 24 V DC
- standby <1.2 W
- operation (output on) <2 W
- communication radio frequency 2.4 GHz
- transmission Wi-Fi
- radio power (IEEE 802.11n) <20 dBm
- receiver sensitivity -98 dBm

\* Load of a resistive nature [AC-1].

For loads of a different nature (e.g. LED lighting), the maximum load current may be significantly lower.

**More information:** [www.fif.com.pl/en/content/24-wskazowki](http://www.fif.com.pl/en/content/24-wskazowki)

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terminal 2.5 mm<sup>2</sup> screw terminals (cord) 4.0 mm<sup>2</sup> screw terminals (wire)

- tightening torque 0.5 Nm
- working temperature 0÷45°C
- humidity <90%

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