

SIZE: 630\*80mm

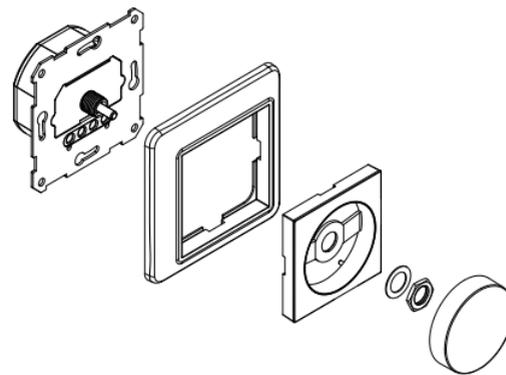
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# User Manual

## LED Dimmer Switch

El.Nr 14 010 69 RH, 14 010 70 SO

Works with DIMMABLE LED,CFL,Incandescent and Halogen bulbs

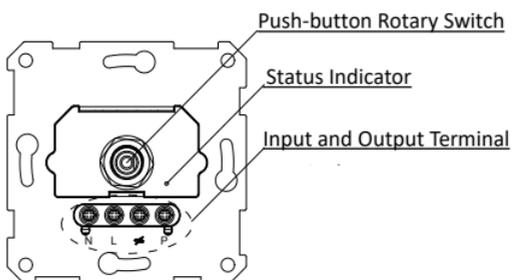


Model No.	DFH051AM3-300-M2B2-P
Rated Voltage	220-240V,50Hz
Rated Wattage	300W
Load Range	Incandescent:15W-300W
	LED/CFL:3W-200W
Dimming Mode	Phase-cut
Working Temperature	Temperature: 0°C - 35°C
	humidity: 10% R.H. - 90% R.H.
Model Size	83.5 mm×83.5 mm×44 mm (L×W×H)

### 1. ⚠ WARNINGS AND CAUTIONS

- 1.1 Risk of fire and electrical shock, products should be installed in accordance with appropriate electrical codes and regulations.
- 1.2 This dimmer should be protected by a up to a 16A maximum miniature circuit breaker.
- 1.3 Turn power off at circuit breaker or fuse and test that power is off before installing.
- 1.4 After installed the dimmer, it is recommended to set the minimum brightness level to make bulbs turn on immediately.
- 1.5 If you are unsure about any part of these instructions, consult an electrician.
- 1.6 To reduce the risk of overheating and possible damage to other equipment, do not install to control a receptacle, a motor-operated appliance or a transformer-supplied appliance.
- 1.7 Use with compatible dimmable LED, CFL bulbs, Incandescent or halogen fixtures only.
- 1.8 When multiple bulbs are used with one dimmer DO NOT mix bulb types. All bulbs shall be either LED, CFL or Incandescent. Using the same model of each bulb will enhance dimmer performance.
- 1.9 This product conforms to EN60669-2-1.

### 2.Functional Instructions



#### 2.1 Input and Output Terminal

- N: Input terminal (Connect to the neutral wire "N") .
- L : Output terminal (Connect to the live wire "L") .
- ⚡ : Output terminal (Connect to the load) .
- P: Signal input terminal (Connect the self - reset switch -output terminal)

Short press: Within 0.5s  
 Long press: Over 0.5s  
 Continuous short press: Each interval of short press should within 1s

#### 2.3 Push-button Rotary Switch

- Turn on/off: Short press the rotary switch once when in on/off status.
- Dimming: Twisting the rotary switch clockwise to increases the brightness; Twisting the rotary switch counterclockwise to decrease the brightness. When the lamp is on, long press the self-reset switch to adjust the brightness of the lamp; After release, long press again to switch the direction of dimming brightness.
- Quickly to Max brightness: Continuous short press the rotary switch for two times.
- Setting the startup brightness: When in on ideal status, continuous short press the rotary switch five times and the light flash once. (If the brightness less than the start brightness when been turned OFF,it will be in startup brightness when been turned ON next time.Otherwise,the brightness will be in the brightness when turned OFF.)
- Setting the Min brightness: Adjust the light to the ideal maximum brightness and press the rotary switch for six times when in ON status, then the light flashes for three times.
- Setting the Max brightness: Adjust the light to the ideal maximum brightness and press the rotary switch for eight times when in ON status, then the light flashes for three times.

### 3 Self-reset Switch

- Turn on/off: Short press self-reset switch once when in on/off status.
- Dimming: When the lamp is on, long press the self-reset switch to adjust the brightness; After release, long press again to switch the direction of dimming brightness.
- Quickly to Max brightness: Continuous short press the self-reset switch two times when in on/off status.

### 4 Tool Needed To Install

∅4mm slotted Screwdriver / Philips PH1	Test Pencil
Electrical Tape	Pliers
Cutters	Rulers

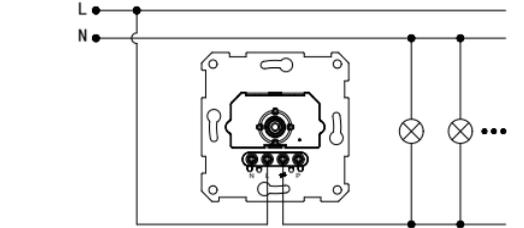
### 5 Installation

- WARNING: To avoid fire and electrical shock, TURN OFF POWER at circuit breaker or fuse and test that power is off before wiring.
- Performing the installation based on actual application conditions (5.3a.1 or 5.3b.1). The area of the connected wire core is 1.5mm<sup>2</sup>-2.5mm<sup>2</sup> and the stripping length of the connected is about 9mm.
- Typical wiring application

Power Supply: Live wire or neutral wire  
 (Note: Using the N wire may ensure better compatibility with non-linear loads.)

#### 5.a.1 Live wire connection

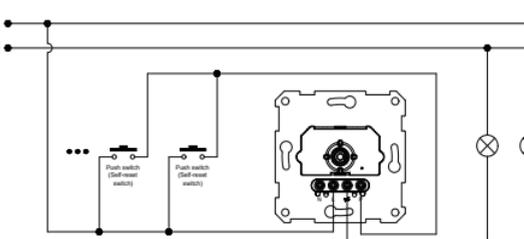
#### 5.3a.1 1-way



#### 5.3a.2 Multi-way

#### 5.3a.2 Wiring diagram that connected with self-reset switch.

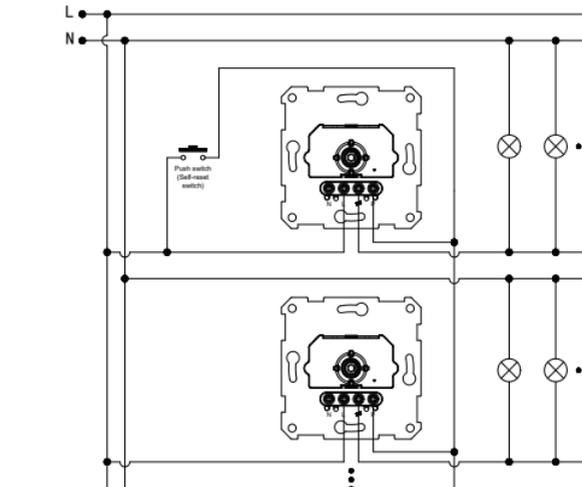
#### 5.3a.2.1 Multiple self-reset switches control one dimmer



#### Note:

- The dimmer must always be connected to the live side of the load to work normally.
- Multiple self-resetting switches can simultaneously control the up/down brightness and on/off functions of twenty dimmers.
- Dimmers cannot be connected in parallel or in series in order to control the same load at two different locations

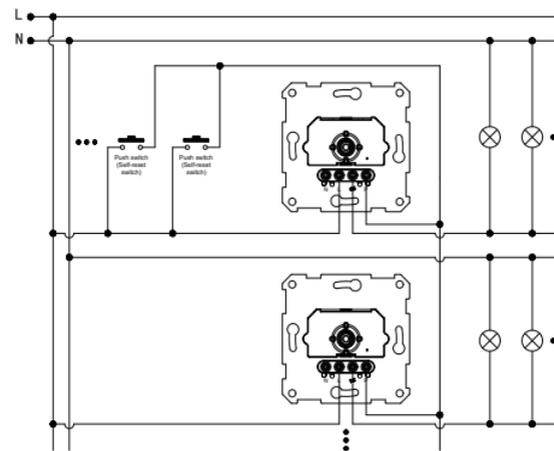
#### 5.3a.2.2 One self-reset switch control multiple dimmers



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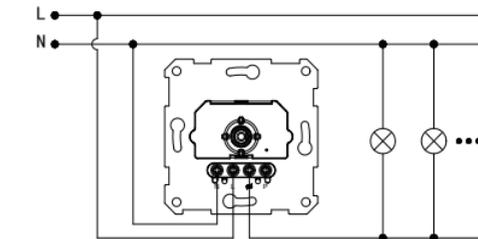
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5.3a.2.3 Multiple self-reset switches control multiple dimmers



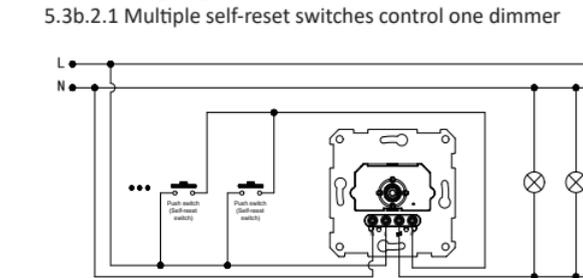
5.3b.1 Neutral and live wire connection

5.3b.1 1-way



5.3b.2 Multi-way

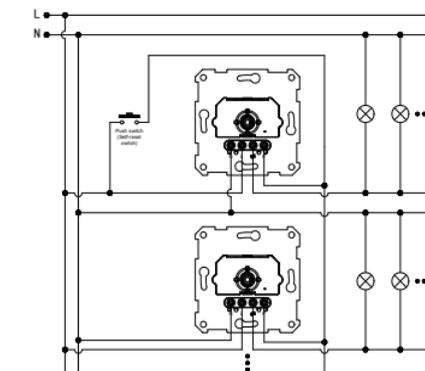
5.3b.2.1 Multiple self-reset switches control one dimmer



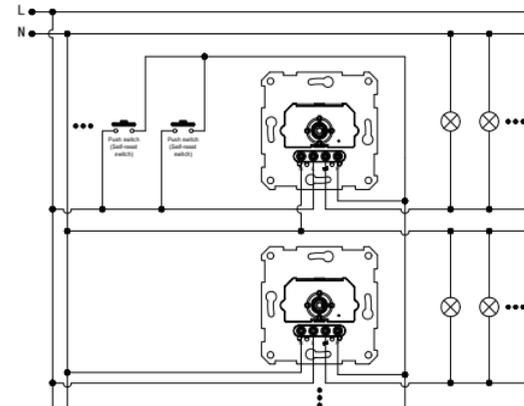
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5.3b.2.2 One self-reset switch control multiple dimmers

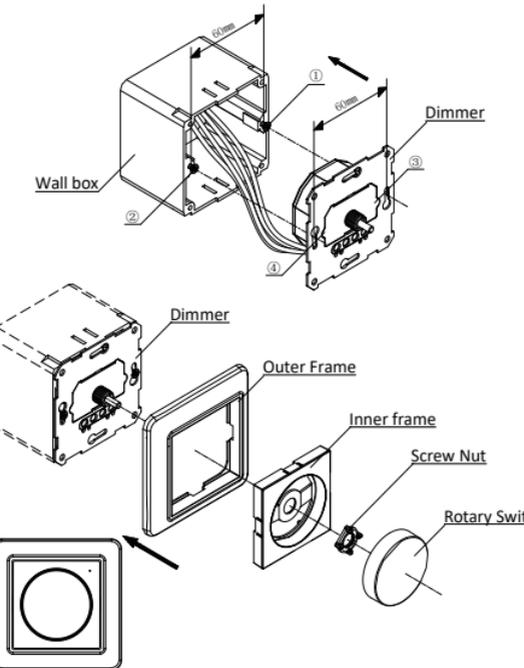


5.3b.2.3 Multiple self-reset switches control multi-way dimmers



**Install the dimmer**

- The product is divided into dimmer, outer frame, inner frame, screw nut and rotary switch.
- Align the screw hole ① ② and place the dimmer in the wall box and secure it, then install and secure outer frame, inner frame, screw nut and rotary switch in turns.



**6 Instructions**

**Functional Instructions**

Short press: within 0.5 seconds  
 Continuous short press: The interval between two short presses is within 1 second

1-way Function Table

Function	Dimmer Operation
Turn on/off	Continuous short press the rotary switch for once
Dimming	Turn the rotary switch
Quick to the Max. brightness	Continuous short press the rotary switch for two times.
Setting the startup brightness	Continuous short press the rotary switch for five times.
Setting the Min. brightness	Continuous short press the rotary switch for six times.
Setting the Max brightness	Continuous short press the rotary switch for eight times.
Clear the Min or Max brightness	Continuous short press the rotary switch for nine times.

Restore factory Settings	Continuous short press the rotary switch for ten times.
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3-way Function Table

Function	Dimmer Operation	Self-reset operation
Turn on/off	Continuous short press the rotary switch/self-reset switch for once	√
Dimming	Turn the rotary switch/self-reset switch	√
Quick to the Max. brightness	Continuous short press the rotary switch/self-reset switch for two times.	√
Setting the startup brightness	Continuous short press the rotary switch for five times.	√
Setting the Min. brightness	Continuous short press the rotary switch for six times.	√
Setting the Max brightness	Continuous short press the rotary switch for eight times.	√
Clear the Min or Max brightness	Continuous short press the rotary switch for nine times.	√
Restore factory Settings	Continuous short press the rotary switch for ten times.	√

**7 Troubleshooting**

Problem	Possible Cause	Solution
Lights flickering	Bad connection	Reconnection
	Connect to multiple types bulb, incur interference and cause flicker	Change bulbs to same type
Dimming LED or CFL flickers at low end of dimming range	Bad compatibility	Turn up bulb minimum brightness properly
The bulb does not work	Circuit breaker has tripped	Return the power
	Fuse burn out	Change fuse
	Bulb burned out	Change lamp
Bulb out of control	Bad connection	Check connection
	Abnormal	Return the power