Installation Guide



DM10R

0–10 V Dimmable Receiver

For compatible wireless kinetic switches and LED drivers with a 0–10 V control input.

Technical parameters

Input	100–240 V AC 50/60 Hz
Control output	0–10 V DC, 1 channel Max. total current: 20 mA
Wireless protocol	433 MHz RF (ASK)
Pairing capacity	Up to 10 different kinetic switches
Standby power	≤ 0.5 W
Wireless range	Indoor: up to 25 m Open area: up to 80 m
Dimensions	40 × 40 × 22 mm
Housing	White PC
Operating temperature	−10 to +55 °C

Open-area range applies in unobstructed conditions. Actual range depends on the installation and surroundings.

1. Installation and terminals

Disconnect the AC supply before installation or changing any connections. Check the terminal labels before applying power.

The DIM output is a 0–10 V control signal. Do not connect AC mains to DIM−, DIM+, S1 or S2.



L-IN / N-IN: AC live and neutral supply.

DIM− / DIM+: connect to the matching 0–10 V input terminals of the LED driver.

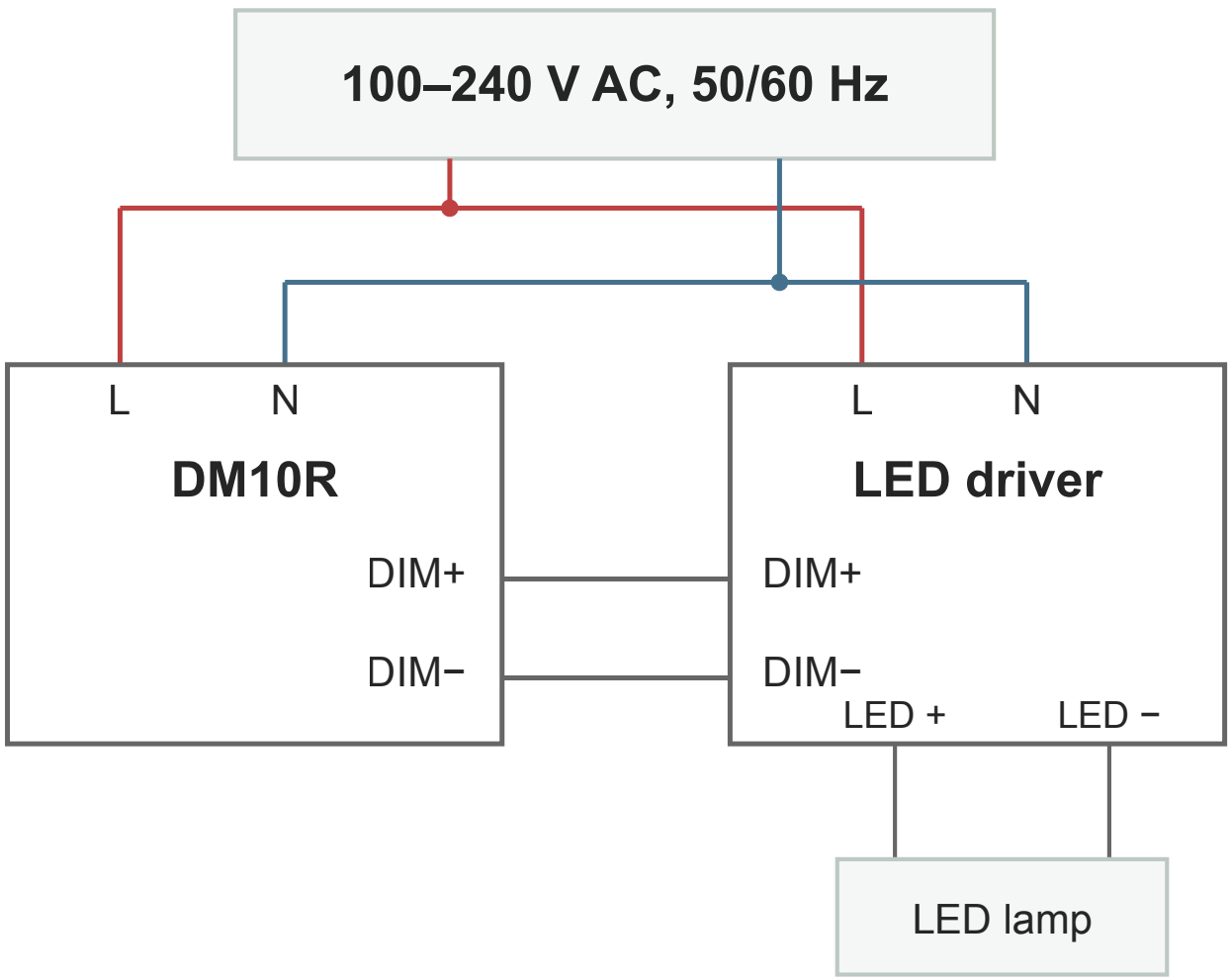
S1 / S2: voltage-free switch contacts only.
Maintained switches or momentary push-buttons.

Do not connect a dimmer switch to S1/S2.

External switch wiring: see pages 5 to 7.

2. Connect a 0–10 V driver

Use a compatible LED driver with a 0–10 V input. The receiver supplies a control signal; the driver supplies power to the lamp.



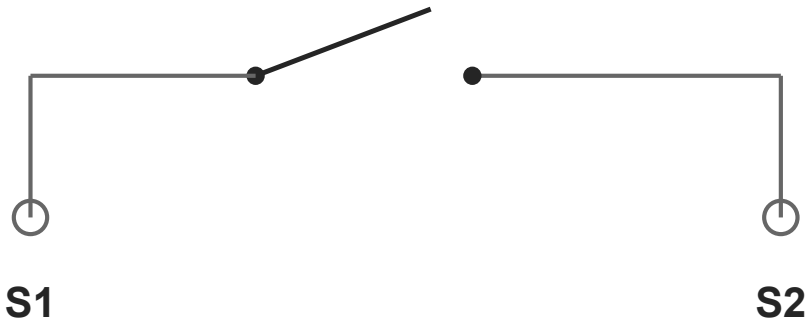
Max. total 0–10 V control current: 20 mA.

3. External switch wiring

S1/S2: voltage-free contacts only.
No mains or external voltage.

Use a maintained switch or momentary push-button.
For multi-location control, see pages 6 and 7.

External switch between S1 and S2



Connect the switch contacts directly
across S1 and S2.

Supply and driver connections:
see pages 3 and 4.

Functional diagram; terminal layout may vary.

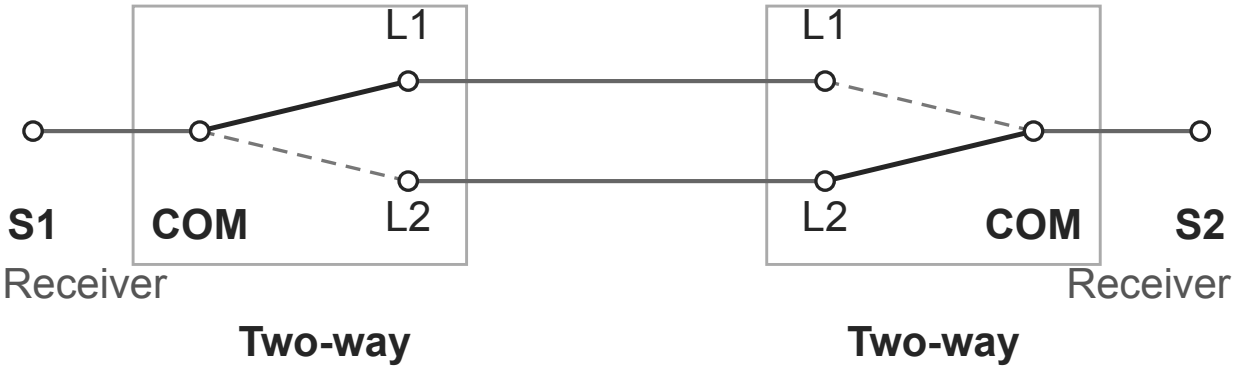
4. Multi-location wiring - Europe

S1/S2: voltage-free contacts only.
No mains or external voltage.

Functional diagram. Supply/driver wiring: pages 3 and 4.

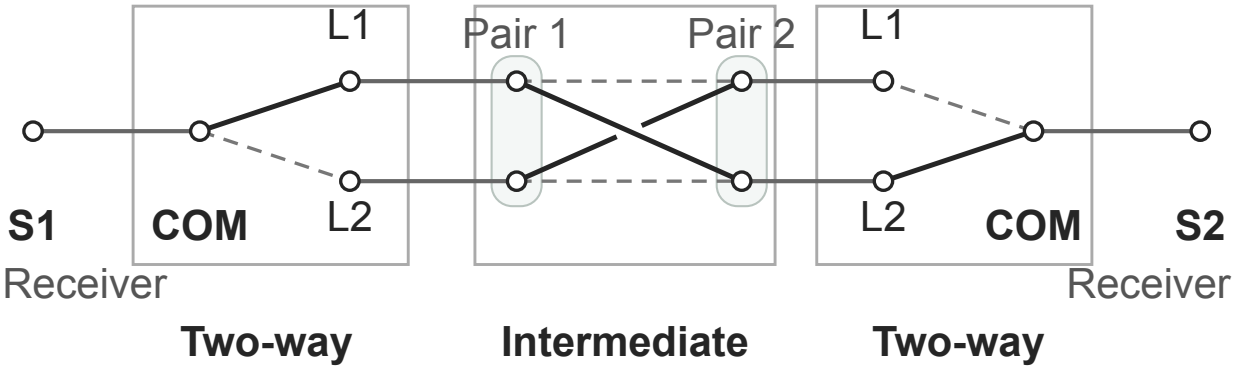
A. Two-way switching

Control from two locations



B. Intermediate switching

Control from three locations



COM = common contact (may be marked C).
Solid/dashed: alternative internal contact positions.
Use voltage-free contacts only; no external supply.

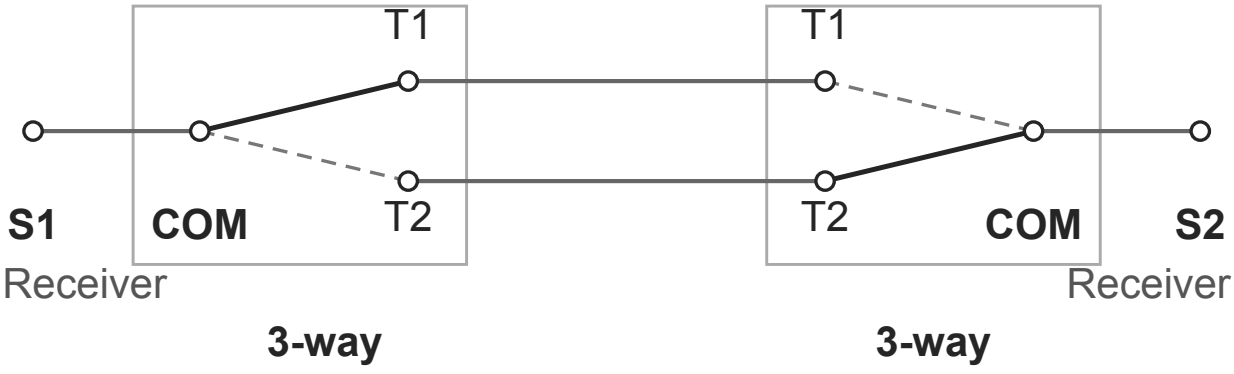
5. Multi-location wiring - US

S1/S2: voltage-free contacts only.
No mains or external voltage.

Functional diagram. Supply/driver wiring: pages 3 and 4.

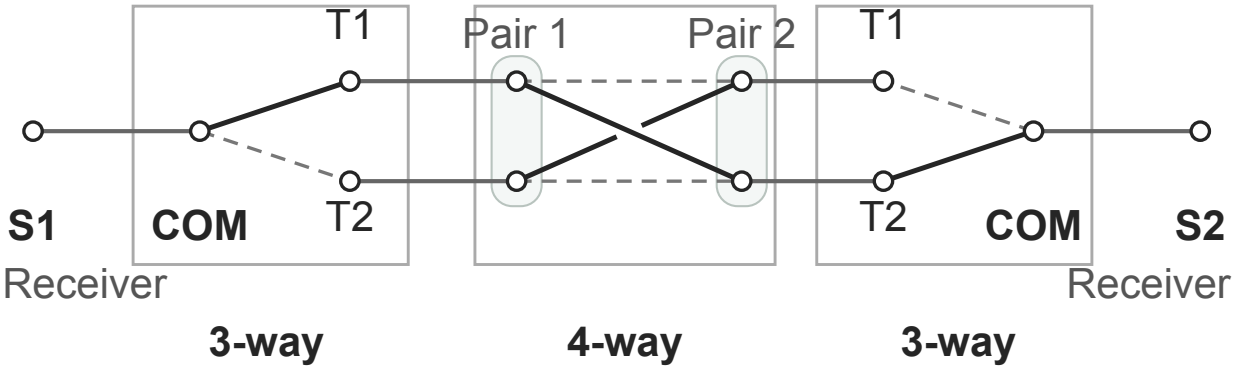
A. 3-way switching

Control from two locations



B. 4-way switching

Control from three locations



COM = common; T1/T2 = travelers (diagram labels).
Solid/dashed: alternative internal contact positions.
Use voltage-free contacts only; no external supply.

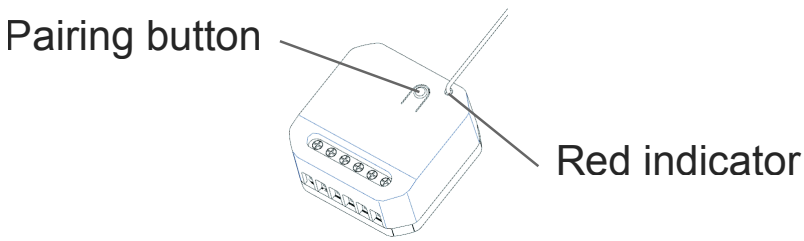
6. Pairing and operation

With the receiver powered, hold the pairing button for about 3 seconds. Release it when the red indicator lights up, then press one key of a compatible wireless switch once. Avoid rapid repeated presses. The red indicator goes out when pairing succeeds.

Pairing steps

1. Connect the receiver to its AC supply.
2. Hold the pairing button for about 3 seconds.
3. Release it when the red indicator lights up.
4. Press one wireless switch key once.
5. Check that the red indicator goes out, then test the switch.

Note: If no wireless key is paired within 60 seconds, the receiver exits pairing mode and the red indicator goes out.



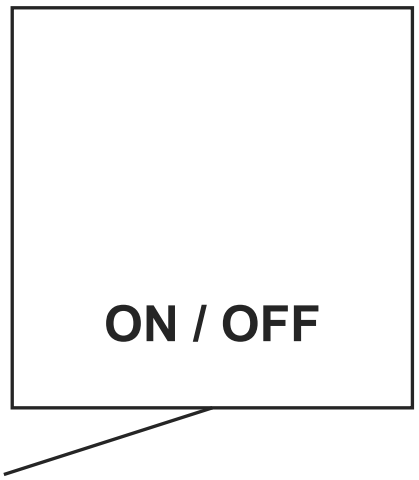
7. Single-button dimming

Pair the wireless switch as described on page 8. The same button controls switching and dimming.

Switching and dimming

1. Briefly press the paired button to switch the light on or off.

2. With the light on, press and hold the button for about 3 seconds to start dimming.



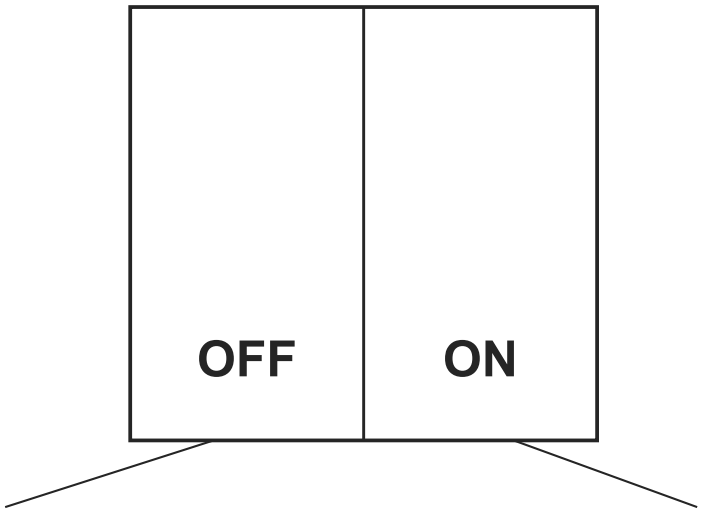
Hold for 3 s to start dimming.
Release at the required brightness to stop.

While held, brightness cycles up and down. Dimming stops automatically after three complete cycles.

8. Optional directional pairing

2-gang switches can also use normal pairing.
Both keys control the same lighting circuit.
One switch controlling several receivers may leave lights out of sync after a missed signal.
Repeat OFF or ON to restore matching states.
Follow steps 1-3 on page 8; press the same key 3 times within 1 second. The red light goes out.

Key functions in directional mode



Left: short press for OFF.
Hold for 3 s to start dimming down.

Right: short press for ON.
Hold for 3 s to start dimming up.

Release the key to stop dimming.

9. Clearing and troubleshooting

Clear all paired switches

Press and hold the pairing button for about 6 seconds. Release it when the red indicator changes from on to off. The red indicator flashes 3 times to confirm that the paired switches have been cleared.

Pair the required wireless switch keys again after clearing.

Troubleshooting

No wireless response

Check the receiver supply, then check whether the wireless switch key has been paired.

Pairing does not complete

Repeat the pairing sequence. Press the wireless key once while the red indicator is on.

The lamp does not dim

Disconnect the AC supply. Check DIM+ / DIM− polarity, driver compatibility and the total control current.