Product art. no.: MSPOT100RF

Important!

- Read the entire instruction sheet before starting any work.
- The unit must not be covered or installed in a hermetically sealed enclosure. Adequate air circulation is important. The ventilation holes must at all times be opened to allow air circulation.
- The unit can only be used with a power supply with a constant voltage output (CV). Constant current power sources must never be used.
- Cable size for input power and load must be 1.5mm2 or greater and not exceed 5m in total length. Smaller cable areas can only be used after approved by certified electrician.
- Control cables for switch must be twisted and not exceed 10m in length.
- Do not route control cables together with power cables.
- It is the responsibility of the installer to ensure proper protection for overload. An external fuse or a power source that is current limited in its design must be used.
- Antenna cable must never be modified.
- Usable range is dependent on installation conditions and proximity to metal surfaces and may vary.
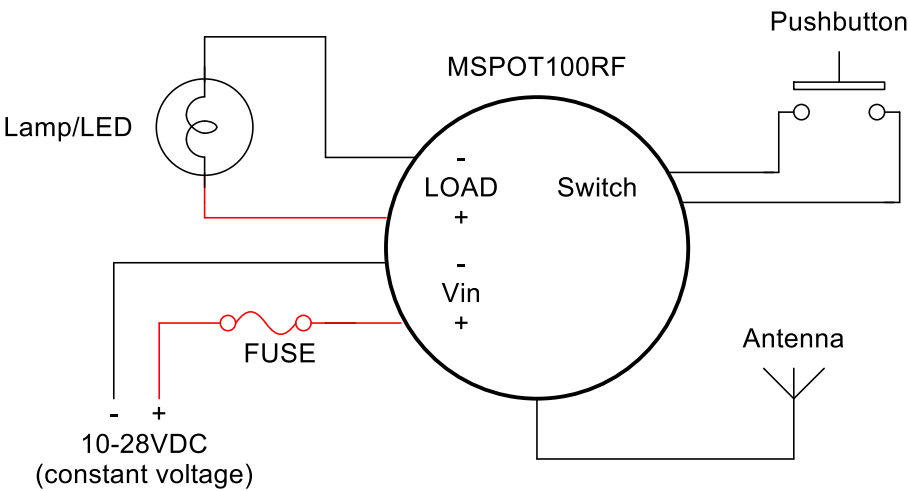
Specifications:

- Input voltage range 10VDC-28VDC, constant voltage ONLY (CV)
- Maximum allowed load 75W
- Maximum current 6A@12V, 3A@24V (external fuse with 3A/6A rating MUST be used or a current limited voltage source)
- Push button control input for on/off/dim
- RF control for on/off/dim compatible with Nexa 433.92MHz remote controls
- Up to 10 transmitters can be programmed in the unit
- Up to 50m range at free line of sight
- Maximum ambient temperature Ta: 40°C
- Memory for last used dimming level
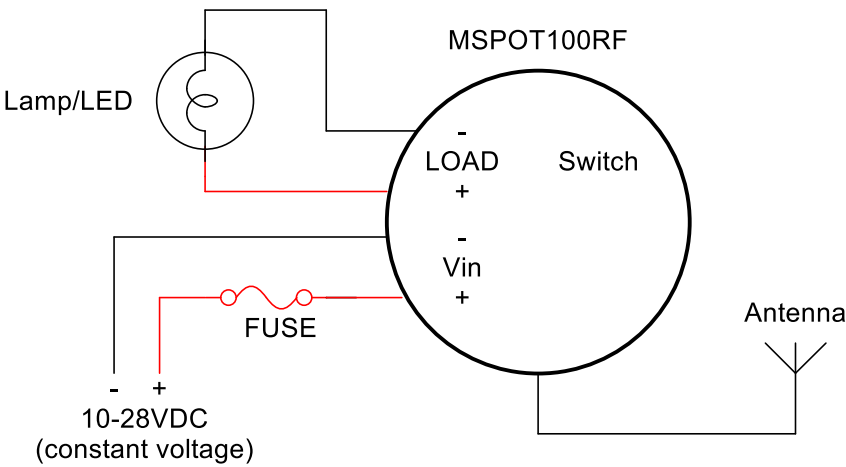- User programmable minimum dimming level
- IP20 protection class

Supported loads:

- LED-strips
- Halogen lamps
- Low voltage LED-lamps

Connection schematic with push button AND radio control:

Pushbutton

MSPOT100RF

Lamp/LED

-
LOAD   Switch
+

-
Vin
+

FUSE

Antenna

-    +
10-28VDC
(constant voltage)

Connection schematic with radio control only:

MSPOT100RF

Lamp/LED

-
LOAD   Switch
+

-
Vin
+

FUSE

Antenna

-    +
10-28VDC
(constant voltage)

Installation instructions:

1. Turn all power off.
2. Study the label on the units backside to see where the terminals are located and where + and – are located.
3. Connect input power to the screw terminal connector. Make sure to tighten the screws properly (do NOT overtighten). Check that polarity is correct. The device will not be damaged by reversed polarity, but will not function properly. **Make sure the correct fuse rating is used (3A@24V or 6A@12V) or that the used power supply is inherently current limited to 3A/6A.**
4. Connect the lamp to the output, making sure that polarity is properly oriented.
5. Connect the control cable for the pushbutton if this is used in the current setup.
6. Double check all connections for correct polarity and that there are no free strands in the cables.
7. Route the control cable away from all types of power cables.
8. Route antenna cable away from other cables and metallic surfaces (never modify antenna).
9. Turn power back on.
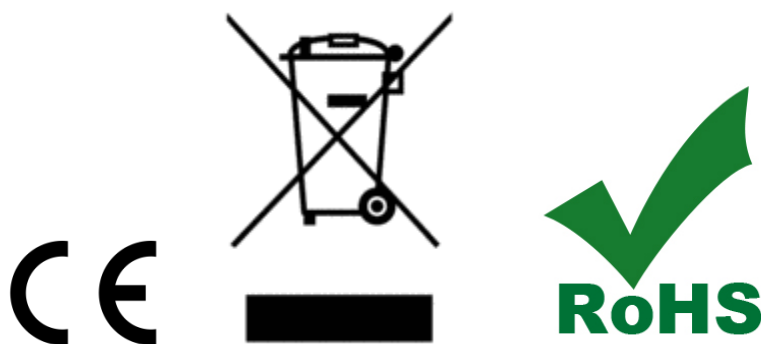
Instructions for use (pushbutton control):

1. Press the pushbutton for approx.. 1 second to turn the lights ON.
2. Repeating 1) will turn the lights OFF.
3. When lights ON, pressing and holding the button pressed will start a dimming cycle where the intensity is slowly ramped towards the maximum value. The unit automatically stores the dimming level and recalls this next time the unit is turned on.
4. To dim down, release the button and press and hold again. This will start a dimming cycle where the light output is gradually reduced. DANGER! If dimming all the way down to fully OFF and then releasing the button can lead to a confusing situation if the pushbutton is then used to turn off the unit. When turning on the unit it recalls the last used dimming level and if this dimming level was low enough for the lights not to glow it can be difficult to understand if the unit is really on or off. Try dimming in different direction to get the lights back up to a glowing level. If nothing happens when dimming try ONE short push and then repeat the dimming action.
5. The minimum dimming level can be programmed. To do this, dim to the desired minimum level. To make this setting permanent push the "learning button" (see picture below) on the frontside three times with approximately 0.5-1 second between each push. Use a ballpoint pen or similar. The minimum dimming level is now stored.

Learning button

6. To erase a programmed minimum dimming level, push and hold the "learning button" for at least 10 seconds. This resets the minimum level to factory settings.

Instructions for use (radio control):

1. Before the MSPOT100RF responds to a remote control it must be paired to the remote control. To pair the units, press the learning button for approx. 3 seconds. The connected LED light will start to flash slowly on/off.
2. Press the "on" key on the remote control. MSPOT100RF register the remote control and stores the remote control's unique ID internally. A confirmation is done by three quick flashes of the connected LED light. If this acknowledge is not seen, check remote control batteries. If this checks out OK, try another remote control.
3. The light can now be switched on by pressing the "on" button on the remote control. Switch off by pressing "off" on the remote control.
4. To dim the light, press the "on" button on the remote control when the lights are already turned on. This will start a dimming cycle that dims up to maximum light output and the dims down to minimum light output and then back up again in an infinite loop. To stop the dimming sequence at the desired level, press the "on" button on the remote. This dimming level will be stored internally and recalled next time the unit is turned on.
5. To pair another remote control, repeat steps 1-2 above. Up to 10 remote controls can be stored.
6. To erase all stored remote control IDs press and hold the learning button for 10 seconds and then release the button. A series of quick flashes of the connected LED light confirms the erase.
7. The minimum dimming level can be programmed by using steps 5-6 in the "Instructions for use (pushbutton control) above.

Product disposal:

This unit must be properly disposed as required for electronics goods recycling. It must not be disposed of in any other way.

Contact information:
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