Additional settings information for TEM dimmers EM13, EM14, EE19

Programming

Optimising the dimmer's performance:

When you turn the dimmer on for the first time, it automatically sets to Mode 1. This mode is most suitable for almost all LED lamps; however, if the light flickers in Mode 1, you can improve the dimming function by changing the mode (more information in the chapter "Changing the control mode" below).

You can always reset the dimmer back to Mode 1. Additionally, the minimum and maximum dimmer brightness can be set to achieve an optimal dimming path for a specific user.

Setting the minimum brightness:

If your lamps flicker on the minimum setting, you can increase the minimum setting to prevent that. If the lamps shine brighter than you would prefer on the minimum brightness setting, you can set the dimmer by following these steps:

1. Turn on the dimmer and set the knob to MINIMUM (turn it all the way anticlockwise).
2. Turn the lamps on and off at least 3 times [OFF-ON x3] with a 1 second interval in between.
3. The lamps will set the maximum and minimum brightness level and then turn off. The dimmer has entered the settings menu.
4. Turn the knob all the way clockwise. The lamps will turn on, and this is how you set the minimum brightness.
5. Set the preferred minimum brightness and leave the dimmer in this position.
6. After 3 seconds, the dimmer will detect that you have stopped setting the minimum brightness. The lamps will first light up at the maximum intensity and then at the minimum intensity, which indicates that the dimmer has successfully registered the setting.
7. Continue with the normal use of the dimmer.

Setting the maximum brightness:

If your lamps flicker on the maximum setting, you can lower the maximum setting to prevent that. If the lamps shine weaker than you would prefer on the maximum brightness setting, you can set the dimmer by following these steps:

1. Turn off the dimmer and set the knob to maximum (turn the knob all the way clockwise).
2. Turn the lamps on and off (ON-OFF) with a 1 second interval in between.
3. Set the dimmer to minimum (turn the knob all the way anticlockwise).
4. Turn the lamps on and off (ON-OFF) with a 1 second interval in between.
5. Set the dimmer to maximum (turn the knob all the way clockwise)
6. Turn on the lamps.
7. The lamps will set the maximum and minimum brightness level. The dimmer has entered the settings menu. Then the lamps will turn off, or will remain turned on at the minimum brightness.
8. Turn the knob anticlockwise. The lamps will turn on, and this is how you can set the preferred maximum brightness.

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9. Set the preferred maximum brightness and leave the dimmer in this position.
10. After 3 seconds, the dimmer will detect that you have stopped setting the maximum brightness. The lamps will first light up at the maximum intensity and then at the minimum intensity, which indicates that the dimmer has successfully registered the setting.
11. Continue with the normal use of the dimmer.

Changing the control mode:

If the lamps flicker, you can improve the dimmer's performance by manually setting the control mode to Mode 2, or in some cases to Mode 3:

1. Turn on the dimmer and set the knob to maximum (turn the knob all the way clockwise).
2. Turn the lamps on and off at least 3 times [OFF-ON x3] with a 1 second interval in between.
3. The lamps will first light up at the maximum intensity and then at the minimum intensity. The dimmer has entered the settings menu.
4. To select Mode 2, turn the knob all the way clockwise. To select Mode 3, turn the knob all the way anticlockwise and then all the way clockwise.
5. The lamps will flash twice or three times respectively, which indicates that the dimmer is set in the preferred control mode.
6. You can now use the dimmer normally in its new control mode.

To reset the dimmer back to Mode 1, follow the same steps. In this case, the lamps will flash only once, which indicates that the dimmer has been restored to Mode 1.

Control mode:

Some LED lamps need a lot of power to turn on, and do not shine at low brightness. Therefore, the dimmer is equipped with a control mode that is suitable for such LED lamps. To turn on the control mode:

1. Turn off the dimmer and turn the knob to minimum (turn the knob all the way anticlockwise).
2. Turn the lamps on and off [ON-OFF] with a 1 second interval in between.
3. Set the knob to maximum (turn the knob all the way clockwise).
4. Turn the lamps on and off [ON-OFF] with a 1 second interval in between.
5. Set the knob to minimum (turn the knob all the way anticlockwise).
6. Turn on the lamps.
7. The lamps will first light up at the maximum intensity and then at the minimum intensity. The dimmer has entered the settings menu. The lamps can stay dimmed or are turned off.
8. Turn the knob all the way clockwise to activate the control mode. The lamps will flash once.
9. You can start to use the dimmer normally with the new settings. To

turn off the control mode, repeat step no. 8.

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Dimmer reset:

If you change the lamps, you can reset the dimmer to the factory settings.

1. Turn on the dimmer and set the knob to maximum (turn the knob all the way clockwise).
2. Turn the lamps on and off at least 3 times [OFF-ON x3] with a 1 second interval in between.
3. The lamps will first light up at the maximum intensity and then at the minimum intensity. Turn the lamps on and off at least 3 times [OFF-ON x3] with a 1 second interval in between.
4. The dimmer will reset all the settings, and the lamps will turn on and then off.
5. The minimum brightness setting will be reset to the factory setting.
6. Continue with the normal use of the dimmer.

Recommendation

Some LED lamps do no indicate programming as well as others. If you have issues with programming, you can replace the LED lamp with a lamp for programming purposes.