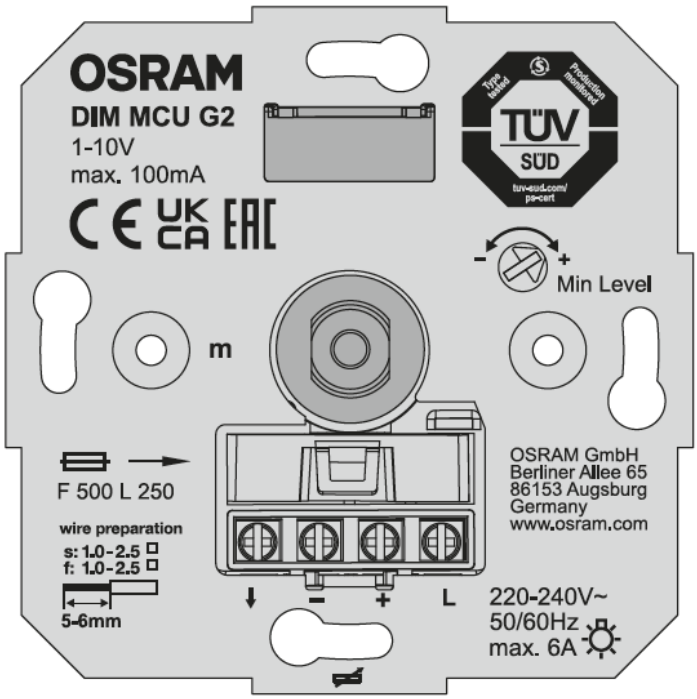
OSRAM DIM MCU G2 Control Unit For Manually Dimming Luminaires Owner's Manual

Contents

OSRAM DIM MCU G2 Control Unit For Manually Dimming Luminaires



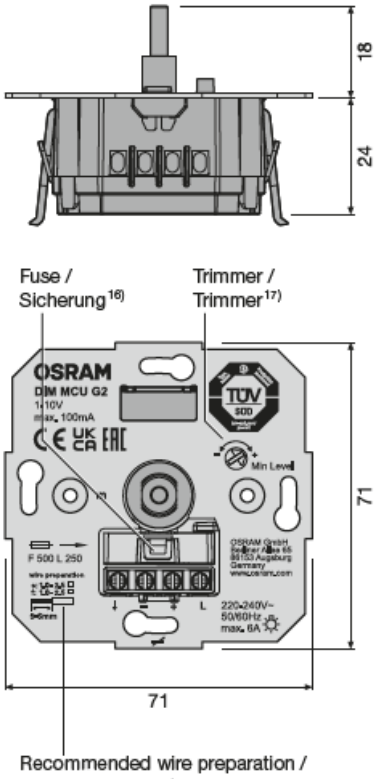
Product Information

- The DIM MCU G2 is a control unit designed for manually dimming luminaires that have a 1-10V interface.
- It has a fuse (Sicherung 16)) and trimmer (Trimmer 17)) for optimal performance.
- The product comes with two wiring schemes (Anschluss-Schema 1 and Anschluss-Schema 2) for easy installation.
- It can directly connect to an electrical load (Direkter Anschluss der el. Last20)) and can handle up to 6A resistive load or a maximum of 10 single lamp ECG or 5 double lamp ECG (21)).
- The control output can connect up to 100 OSRAM ECG (electronic control gear) that require a maximum of 100mA. For bigger loads, an external relay is necessary (23)).
- The DIM MCU G2 requires an electrical power supply of 220-240V~ at 50/60Hz and has a VAC El. power loss of 2%.

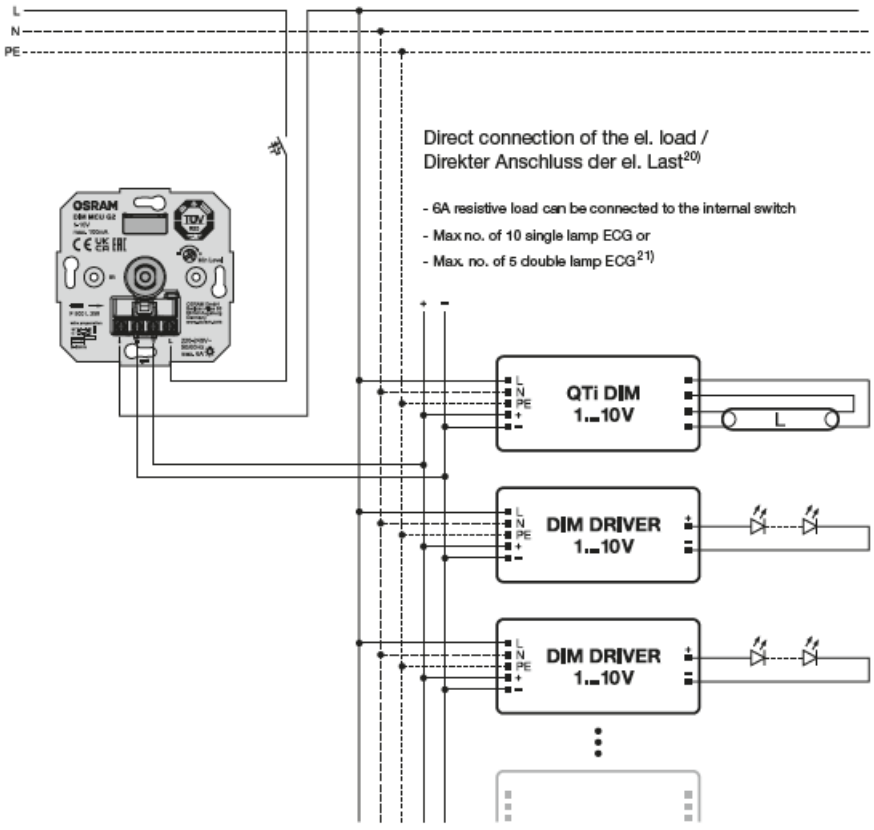
Product Usage

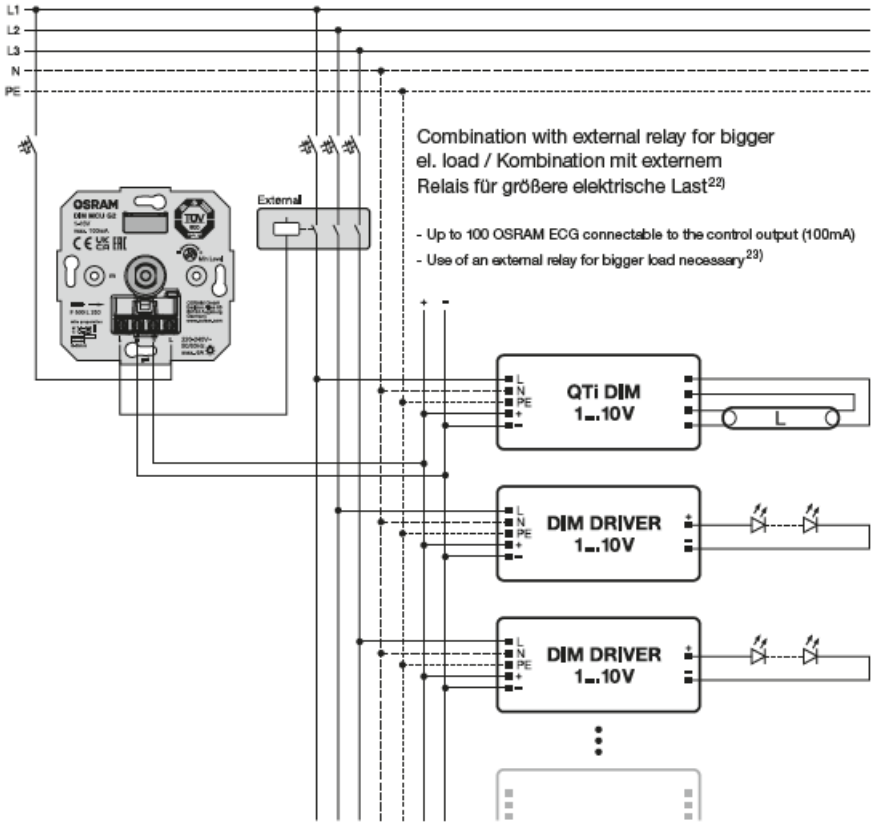
1. Before installation, ensure that the electrical power supply is switched off.
2. Refer to the wiring schemes (Anschluss-Schema 1 and Anschluss-Schema 2) provided in the user manual to connect the DIM MCU G2 to the luminaire and electrical load.
3. Ensure that the fuse (Sicherung 16)) is inserted correctly and the trimmer (Trimmer 17)) is set to the desired level.
4. If connecting to an electrical load (Direkter Anschluss der el. Last20)), ensure that the load does not exceed 6A resistive load, or a maximum of 10 single lamp ECG or 5 double lamp ECG (21)).
5. If connecting to up to 100 OSRAM ECG, ensure that the total power consumption does not exceed 100mA, otherwise an external relay is necessary (23)).
6. Once all connections are made, switch on the electrical power supply and test the DIM MCU G2 to ensure proper dimming functionality.

DIMENSIONS



Wiring scheme



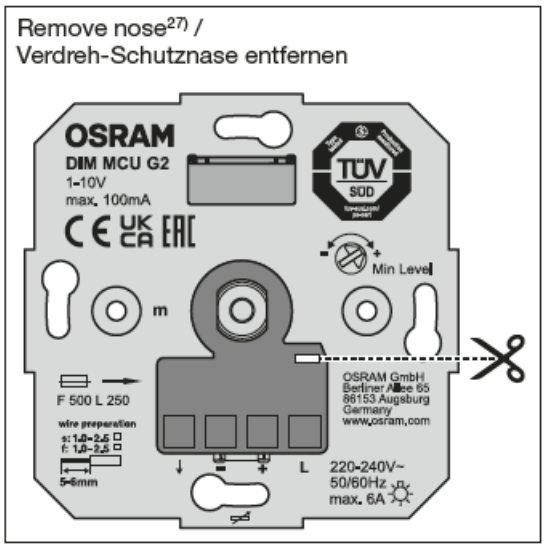

L1
L2
L3
N
PE
External
Combination with external relay for bigger el. load / Kombination mit externem Relais für größere elektrische Last22)
- Up to 100 OSRAM ECG connectable to the control output (100mA)
- Use of an external relay for bigger load necessary23)
QTi DIM 1...10V
DIM DRIVER 1...10V
DIM DRIVER 1...10V

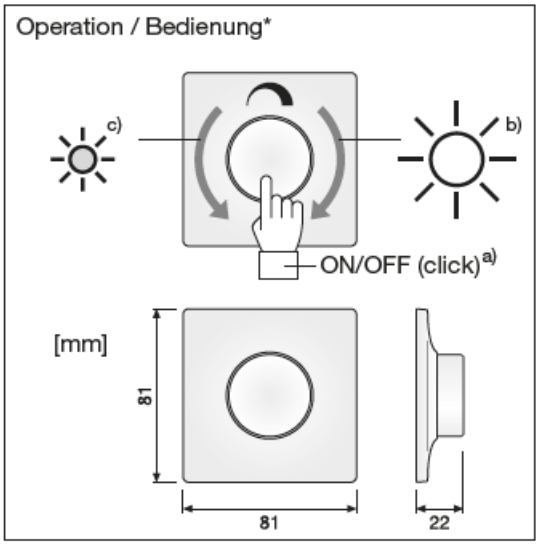
VAC	220 – 240V~ (50/60Hz)
El. power loss 2)	<1W (0W Standby)
ta	-20°C .. 50°C
Control interface 3)	1 – 10V
Switching output load capacity 4)	≤ 6A (10 single-lamp ECGs or 5 two-lamp ECGs 5))
Max. inrush current switching output 6)	≤ 100A
Control output load capacity 7)	max. 100mA (max. 100 OSRAM 1-10V ECGs 8))
Overcurrent protection type 9)	Fuse 10)) (F500 L250)
Safety Standards 11)	EN60669-1, EN60669-2-1, EN50015, EN61547
Type of protection 12)	IP20
Protection Class 13)	II (No Pe needed 14))
Allowed leads diameter 15)	1.0. 2.5 mm2

Compatible covers24

Hersteller / Manufacturer[25)]	**Design Linien / Design lines**[26)]
JUNG[27) / 28)]	AS 500 / A plus / A creation / A 500 / SL 500 / CD 500 CD Universal / CD PLUS / LS 990 / LS design / WG 800 / WG 600 / LS plus (Nicht Aluminium- und Edelstahl-Ausführung)[29)]
BERKER	Q1 / K1 / S.1 / B.1 / Arsys
GIRA	System 55 / S-Color / Fläche / E22 / Wassergeschützt Aufputz
SIEMENS[27)]	Delta profil / Delta style / Delta i-system / Delta vita
SCHNEIDER Electric[27)]	Exxact Primo / Design / Basic / Solid / Combi Serie

Remove nose





Operating instructions

Observe mounting and safety instructions (see back)

Application and function
The DIM MCU G2 control unit enables the brightness of up to 100 luminaires with a 1-10V interface to be set manually. The integrated switching contact can switch a current of up to 6A directly (Wiring scheme 1); an external load relay must be used for bigger loads (Wiring scheme 2). The control current of the 1-10V output is restricted to 100mA.

Commissioning

Adjusting the minimal brightness level (optional):

1. Lights on
2. Turn the knob all the way to the left.
3. Remove the cover
4. Turn the trimmer (footnote) to adjust the minimum brightness
5. Replace the cover

Operation

1. **a) Switching the light on and off:**
   Briefly press the knob. The switching direction will change each time the knob is pressed
2. **b) Increasing brightness:**
   Turn the knob to the right to increase brightness.
3. **c) Reducing brightness:**
   Turn the knob to the left to decrease brightness.

SAFETY AND MOUNTING INFORMATION

The DIM MCU G2 has been specifically designed to be mounted in flushmounted boxes complying to IEC 60670 standard; independent mounting is only permitted with appropriate cable clamps, sufficient insulation and resistance against fire. Connecting the control output (+ / -) to external voltages, especially with the mains voltage,

will lead to the destruction of the device!

1. Control unit for manually dimming luminaires with a 1-10V interface;
2. El. power loss;
3. Control interface;
4. Switching output load capacity;
5. 10 single-lamp ECGs or 5 two-lamp ECGs;
6. Max. inrush current switching output;
7. Control output load capacity;
8. max. 100 OSRAM 1-10V ECGs;
9. Overcurrent protection type;
10. Fuse;
11. Safety Standards;
12. Type of protection;
13. Protection Class;
14. No Pe needed;
15. Allowed leads diameter;
16. Fuse;
17. Trimmer;
18. Recommended wire preparation;
19. Wiring scheme;
20. Direct connection of the el. load;
21. 6A resistive load can be connected to the internal switch; Max no. of 10 single lamp ECG or; Max. no. of 5 double lamp ECG;
22. Combination with external relay for bigger el. load;
23. Up to 100 OSRAM ECG connectable to the control output (100mA); Use of an external relay for bigger load necessary;
24. Compatible covers (Subject to change without notice);
25. Cover manufacturer;
26. Cover design line;
27. Remove nose;
28. Use pliers to removethe claws of the JUNG frame / Use a flat M12 washer with Ø 20mm belowthe fixing nut;
29. Aluminium and stainless steel version not compatible.

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Documents / Resources

	**OSRAM DIM MCU G2 Control Unit For Manually Dimming Luminaires** [pdf] Owner's Manual DIM MCU G2 Control Unit For Manually Dimming Luminaires, DIM MCU G2, Control Unit For Manually Dimming Luminaires, Manually Dimming Luminaires, Dimming Luminaires

References

- OSRAM Americas | OSRAM SYLVANIA Homepage

Manuals+.