

Manual for: VGE Pro UV Basic 200/325/400/420/600/975
EP200003&EP325001&EP390003&EP390004&EP600002&EP975001

Important safety notes:

Make sure, that all of the following safety rules are fulfilled.

The device must only be installed by qualified personnel to make sure all applicable safety rules are fulfilled.

Additional safety rules and legal restrictions may apply depending on the country of operation.

- **Risk of electric shock!**

Lethal high voltage is present inside the unit and at the terminals. Due to high voltage storage devices lethal voltages may be present inside the unit and at the terminals if the unit is switched off or disconnected from supply voltage.

- The unit must not be operated if there is any damage (e.g. mechanical damage after transport).
- The unit is intended for use in dry and chemically and biologically inactive environment only. Keep water and humidity away from the whole electrical assembly. Lethal voltages across the complete system can result from contact between lamp and water. A separate protective earthing of the complete system is mandatory.
- Disconnect unit from mains before any maintenance operation.
Dangerous voltage may be present inside the unit energy storage devices even if the unit is disconnected from mains. Wait at least 10 minutes after disconnecting the unit from mains voltage before starting any service actions.
- Repeated rapid switching might lead to a fault. Do not turn off and on the unit within less than 10 seconds.
- During ballast section start up, in case of lamp defects or due to wrong lamp wiring high voltages up to 1200V_{eff} may occur at the lamp terminals. This high voltage may be present for a couple of milliseconds until the internal protection circuits shuts down the ballast. At each ballast restart, after any temporary disconnection from mains voltage, the ballast will try to ignite the lamp once more, so again, high voltages may occur.
- The ballast does not provide galvanic insulation from mains at the lamp terminals.
- Harmful voltage occurs at the lamp terminals even if the ballast is in standby mode and the lamps are switched off.
- Never cut the lamp wires while the ballast is in operation. **Risk of serious injury or death!**
- The load for the fault detecting contacts has to be kept within the limits specified in the datasheet. It is recommended to use parallel operation of contacts instead of serial operation in case of summarizing fault detection.

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Technical Specification

supply voltage:	230V AC $\pm$ 10%, 3W					
mains frequency:	55...65Hz					
ambient temperature	0 °C (32 °F) - 40 °C (113 °F) (to keep heat sink temperature below 80 °C (176 °F))					
ballast heat sink temperature	80 °C (176 °F)					
storage temperature	0 °C (32 °F) - 40 °C (104 °F)					
IP protection cabinet	See ratinglabel					
dimensions	360x150x125 mm	380x280x180mm	380x280x180mm	380x280x180mm	558x378x180	558x378x180
weight	2,2 kg (4,9 lbs)	3,4 kg (7,5 lbs)	3,9 kg (8,6 lbs)			
	EP200003	EP325001	EP390003	EP390004	EP600002	EP975001
lamp type	Lamp VGE Pro T6 200W (1115 SPT) Lamp VGE Lighttech T6 200W Amalgaam 4P Base E	Lamp VGE Pro T6 325W (SPT) Lamp VGE T6 325W 4P Amalgaam Base E	Lamp VGE Pro T6 200W (1115 SPT) Lamp VGE Lighttech T6 200W Amalgaam 4P Base E	Lamp VGE Pro T6 140W 867 SPT	Lamp VGE Pro T6 200W (1115 SPT) Lamp VGE Lighttech T6 200W Amalgaam 4P Base E	Lamp VGE Pro T6 325W (SPT) Lamp VGE T6 325W 4P Amalgaam Base E
output power (limited to max. value)	1x 200W (max. 200W)	1x 325W (max. 325W)	2x 200W (max. 200W)	3x 140 (max. 145W)	1x 200W (max. 200W)	3x 325W (max. 325W)
lamp operating current	nominal: 2,1A	nominal: 2,0A	nominal: 2,1A	2.1A	nominal: 2,1A	nominal: 2,0A
lamp voltage	86V (max 140V)	162V	86V (max 140V)	64W (max 140V)	86V (max 140V)	162V
mains voltage	230 V AC $\pm$ 10%, 45...65 Hz	230 V AC $\pm$ 10%, 45...65 Hz	230 V AC $\pm$ 10%, 45...65 Hz	230 V AC $\pm$ 10%, 45...65 Hz	230 V AC $\pm$ 10%, 45...65 Hz	230 V AC $\pm$ 10%, 45...65 Hz
Input current (max.)	0.95A at 230Vrms	1,53A at 230Vrms	1,90A at 230Vrms	1,87A at 230Vrms	0.95A at 230Vrms	1,53A at 230Vrms
Input power (max.)	220W	340W	440W	420W	220W	340W
power factor	Typical: 0.99	Typical: 0.98	Typical: 0.99	typical: 0.9	Typical: 0.99	Typical: 0.98
Efficiency max. load	90%	94%	90%	95 % (min. 92%)	90%	94%
Current THD	Typical: < 15%	Typical: < 15%	Typical: < 15%		Typical: < 15%	Typical: < 15%

Warning notices:

All wires connected to the device should be installed with appropriate protection against contact.

For use in dry environment only!

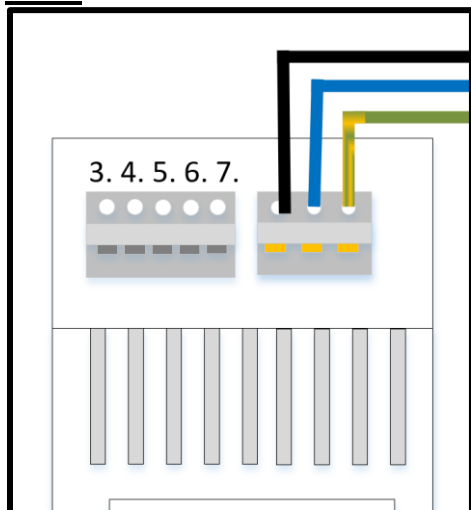
The device may only be installed by fully trained and qualified personnel to make sure all applicable safety rules are fulfilled.

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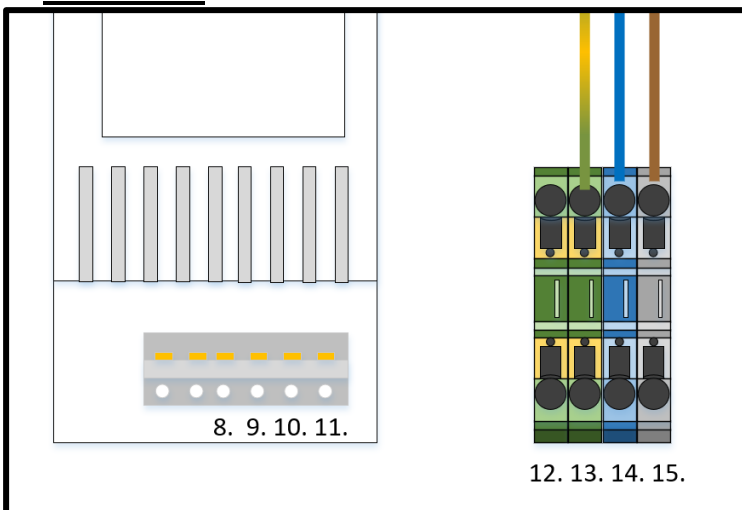
Installation instruction:

200W

TOP



BOTTOM



Contact arrangement:

Lampfault detection:*

- 3. + (5V DC, lamp on)
- 4. - (0V DC, lamp fault)

Electronic switch:*

- 5.
- 6.
- 7.

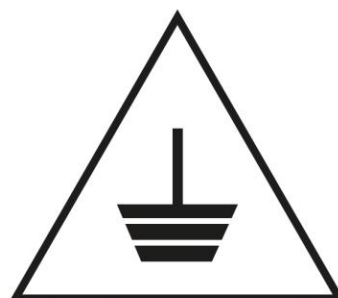
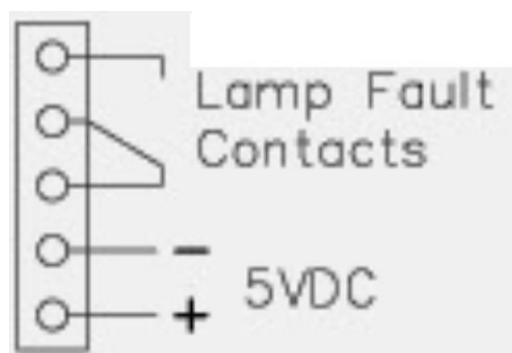
Lamp 1:

- 8. White
- 9. Red or blue
- 10. Brown or green
- 11. Black

Supply voltage:

- 12. Protective earth
- 13. Protective earth
- 14. Mains 230V AC (L)
- 15. Mains 230V AC (N)

Electronic switch*

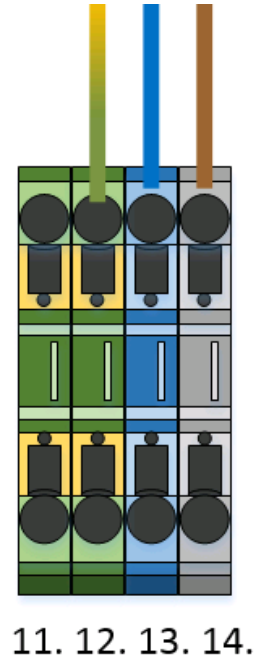
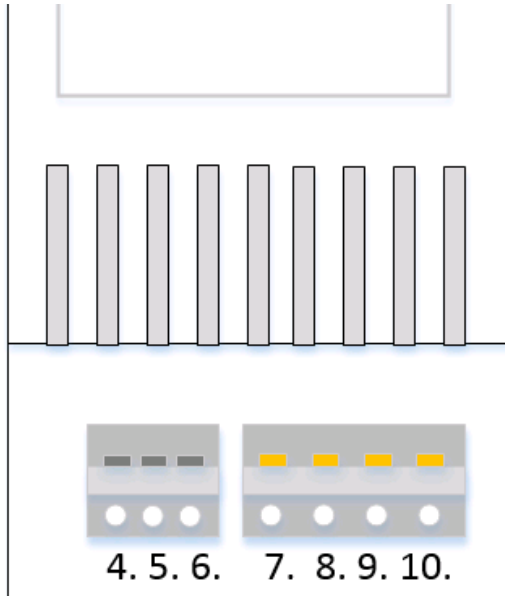


Make sure the reactor is always grounded!

Max. Power	62,5VA 30W
Max. Voltage	125VAC 30VDC
Max. current	1A
Min. current	100mV 1mA

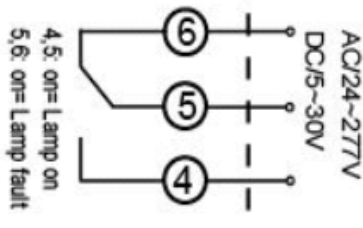
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325W



Contact arrangement:

Lampfault detection:*



Lamp 1:

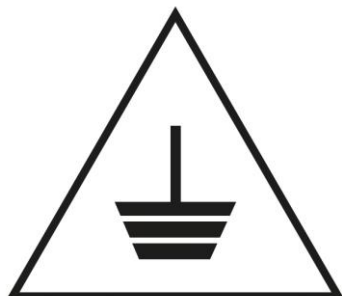
- 7. White
- 8. Red or blue
- 9. Brown or green
- 10. Black

Supply voltage:

- 11. Protective earth
- 12. Protective earth
- 13. Mains 230V AC (L)
- 14. Mains 230V AC (N)

*Lamp status forwarding: Note potential free relay contacts for lamp on / lamp fault

- 4,5: on=Lamp on 5,6: on=Lamp fault

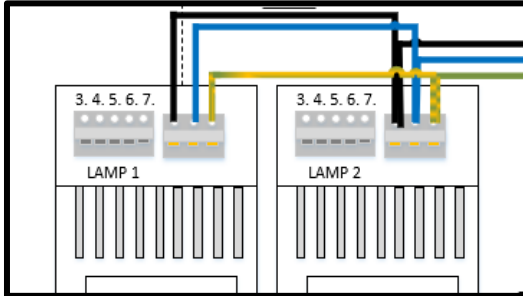


Make sure the
reactor is always
grounded!

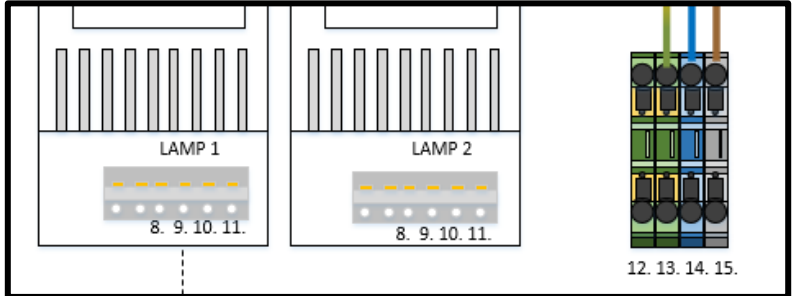
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2x 200W

TOP



BOTTOM



Contact arrangement:

Lamp 1

Lampfault detection:*

- 3. + (5V DC, lamp on)
- 4. – (0V DC, lamp fault)

Electronic switch:*

- 5.
- 6.
- 7.

Lamp 1:

- 8. White
- 9. Red or blue
- 10. Brown or green
- 11. Black

Lamp 2

Lampfault detection:*

- 3. + (5V DC, lamp on)
- 4. – (0V DC, lamp fault)

Electronic switch:*

- 5.
- 6.
- 7.

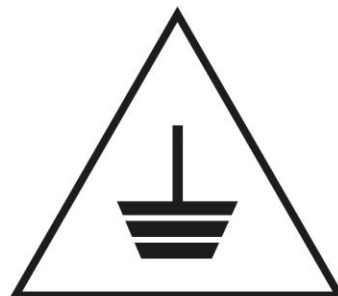
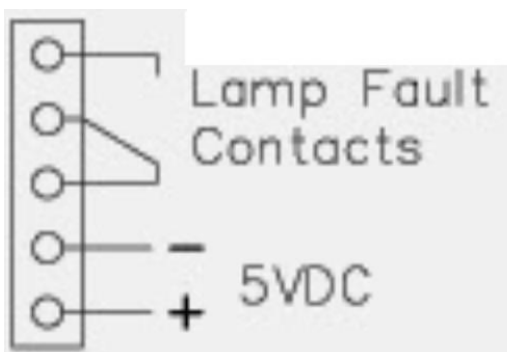
Lamp 2:

- 8. White
- 9. Red or blue
- 10. Brown or green
- 11. Black

Supply voltage:

- 12. Protective earth
- 13. Protective earth
- 14. Mains 230V AC (L)
- 15. Mains 230V AC (N)

Electronic switch*

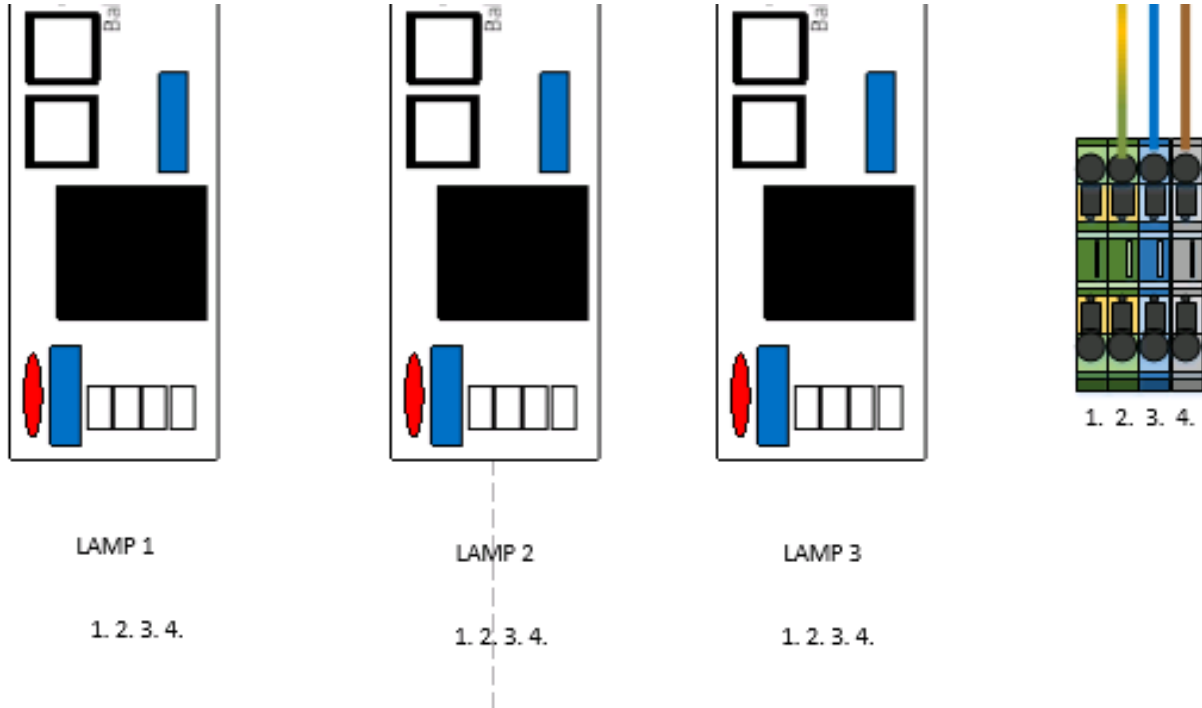


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3x 140W



Contact arrangement:

Lamp 1:

1. White
2. Red or blue
3. Brown or green
4. Black

Lamp 2:

1. White
2. Red or blue
3. Brown or green
4. Black

Lamp 3:

1. White
2. Red or blue
3. Brown or green
4. Black

Supply voltage:

1. Protective earth
2. Protective earth
3. Mains 230V AC (L)
4. Mains 230V AC (N)

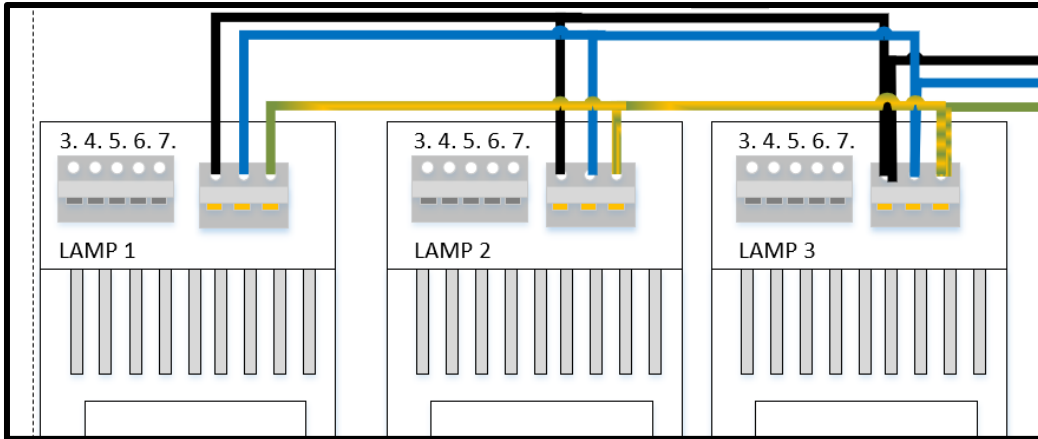


Make sure the reactor is always grounded!

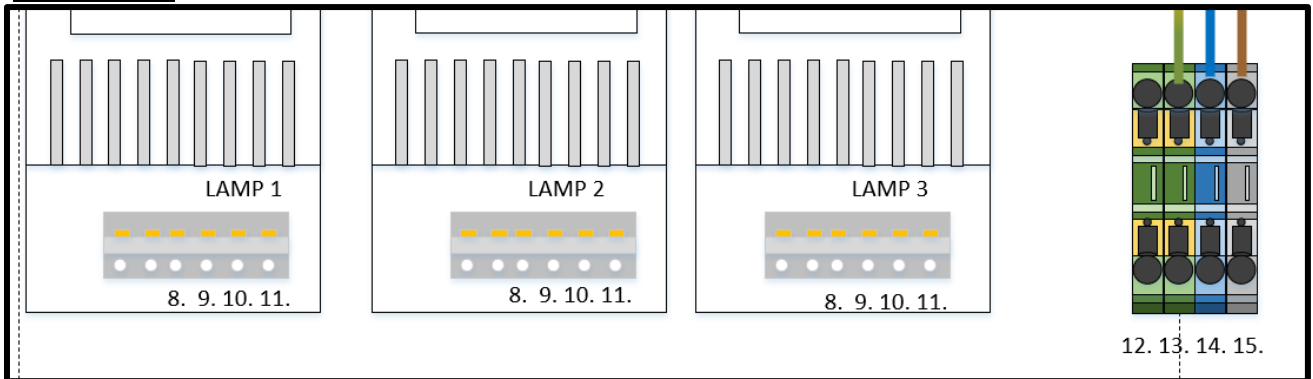
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3x 200W

TOP



BOTTOM



Contact arrangement:

Lamp 1

Lampfault detection:*

- 3. + (5V DC, lamp on)
- 4. – (0V DC, lamp fault)

Electronic switch:*

- 5.
- 6.
- 7.

Lamp 1:

- 8. White
- 9. Red or blue
- 10. Brown or green
- 11. Black

Lamp 2

Lampfault detection:*

- 3. + (5V DC, lamp on)
- 4. – (0V DC, lamp fault)

Electronic switch:*

- 5.
- 6.
- 7.

Lamp 2:

- 8. White
- 9. Red or blue
- 10. Brown or green
- 11. Black

Lamp 3

Lampfault detection:*

- 3. + (5V DC, lamp on)
- 4. – (0V DC, lamp fault)

Electronic switch:*

- 5.
- 6.
- 7.

Lamp 3:

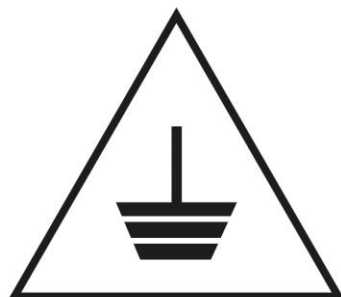
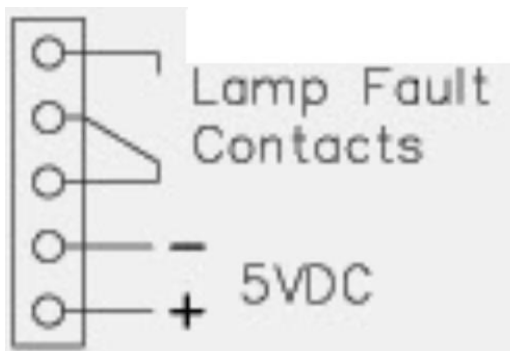
- 8. White
- 9. Red or blue
- 10. Brown or green
- 11. Black

Supply voltage:

- 12. Protective earth
- 13. Protective earth
- 14. Mains 230V AC (L)
- 15. Mains 230V AC (N)

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Electronic switch*

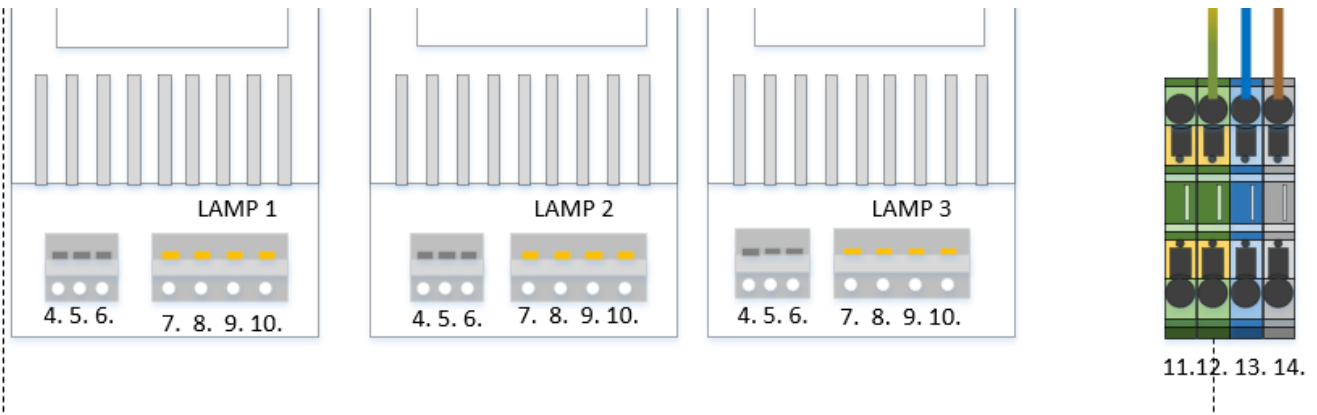


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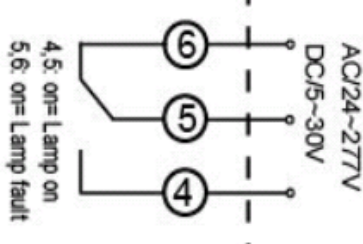
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3x 325W



Contact arrangement:

Lampfault detection:*



Lamp 1:

- 7. White
- 8. Red or blue
- 9. Brown or green
- 10. Black

Lamp 2:

- 7. White
- 8. Red or blue
- 9. Brown or green
- 10. Black

Lamp 3:

- 7. White
- 8. Red or blue
- 9. Brown or green
- 10. Black

Supply voltage:

- 11. Protective earth
- 12. Protective earth
- 13. Mains 230V AC (L)
- 14. Mains 230V AC (N)

*Lamp status forwarding: Note potential free relay contacts for lamp on / lamp fault

- 4,5: on=Lamp on 5,6: on=Lamp fault



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