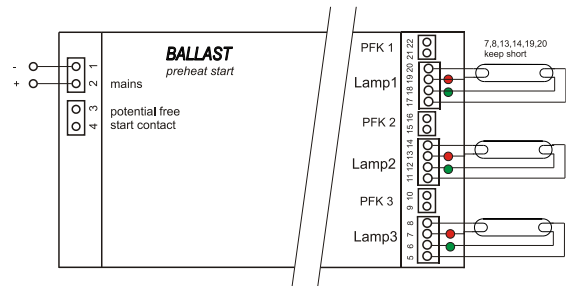


Electronic Ballast for UVC-Lamps with adjustable Lamp Current

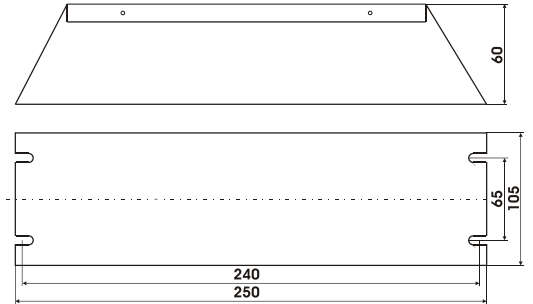


Illustration similar

Wiring



Dimensions



Features

- Controller based design (Cut-Off preheat start)
- 3 separate lamp channels
- External/internal start alternatively
- Inrush current limiter
- Potential free contact for each lamp

Technical Data

Type	LT-UVC3x48 W 425mA 48 V DC
Supply	48 V DC -17% / +25% (41 V DC – 60 V DC)
Input power max.	160 W
Output power	3x48 W
Lamp current	800 mA ± 10 %
Efficiency	> 0,9
Operating frequency	approx. 28..70 kHz
Potential free contact	3 optocoupler
Potential free contact – Max. switching voltage	230 VAC/DC, 100mA
External start input	10..230 V AC / DC (potential free)
Standby power dissipation	approx. 2 W
CE-conformity	yes

Type coding

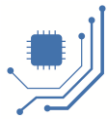
C	Preheat start ballast (Cut off Technology)
M	Potential free contact
E	External start input

Monitoring

Mains Control	Switch off at permanent under – or over voltage
Temperature	Switch off at permanent over temperature
Lamp presence	No start if no lamp is connected
Deactivated lamp, rectifier effect of lamps	Switch off
Shortage on the lamp line	Switch off
End of life lamp	Switch off

General indications

Operation	LED green – works normal
Failure	LED red – failure, no operation
Potential free contact (PFK)	Relay on – works normal Relay off – failure or ballast does not start (Standby)



State indications operation/failure

Ballast status	PFK	LED green	LED red	Description	Cause
No start condition	Off	Permanent blink	Permanent blink	Ballast waits for start	- Under- or over voltage mains - Over temperature - No lamp connected - No HI level at the external start input
Ballast start / preheating	Off	On	On	Lamp preheating	
Ballast start / procedure	Off	Off	On	Lamp starts	
Ballast works trouble free	On	On	Off	Normal mode	
Failure Temperature	Off	Off	1x blinking	Cut off at over temperature Ambient temperature too high Temperature at tc too high	- Wrong installation - No heat dissipation , surface of housing too small
Under/Over voltage mains at start	Off	Off	2x blinking	Switch off at wrong mains	- Mains voltage under limit - Mains voltage over limit
Failure Preheating over current half bridge	Off	Off	5x blinking	Switch off by over current half bridge (abnormal operation)	- Wrong lamp wiring - Shortage on lamp lines - Start without lamps
Under/Over voltage mains			6x blinking	Switch off at wrong mains	- Mains voltage under limit - Mains voltage over limit
Lamp voltage too high or low			8x blinking	Switch off Lamp voltage out of tolerance	- Wrong lamp type in use - End of lamp life - Rectifier effect of lamp - Start with deactivated lamp
Failure over current half bridge	Off	Off	9x blinking	Switch off by over current half bridge (abnormal operation)	- Wrong lamp electrode - Shortage lamp electrode

Mounting instructions

Designed for	Installations in switch cabinet
International protection	IP20
Dimension of case	248 x 105 x 60 mm
Spacing fixing holes	240 mm
Ambient temperature	ta = 0..50 °C
Temperature at tc-point	tc = 55 °C maximum case temperature

Cabling

Max. length of lamp cables	< 5 m
Max. capacitance of lamp cables	< 150 pF/m
Screened lamp cables permitted	yes

Terminal blocks

Mains	Cross section: 0,2–2,5 mm ² (solid) Cross section: 0,25–1,5 mm ² (fine-stranded with ferrule)
Lamp	Cross section: 0,08–1,5 mm ² (solid) Cross section: 0,25–1,5 mm ² (fine-stranded with ferrule)
Potential free contact:	Cross section: 0,08–0,5 mm ² (solid) Cross section: 0,25–0,34 mm ² (fine-stranded with ferrule)
external Start input:	Cross section: 0,08–1,5 mm ² (solid) Cross section: 0,25–1,5 mm ² (fine-stranded with ferrule)