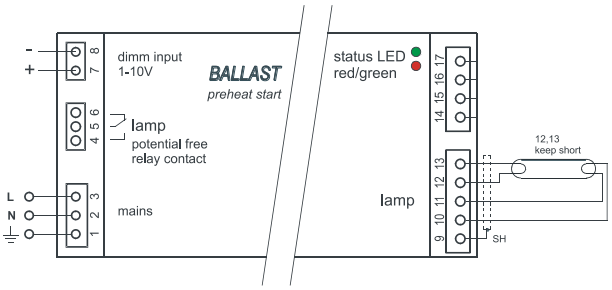
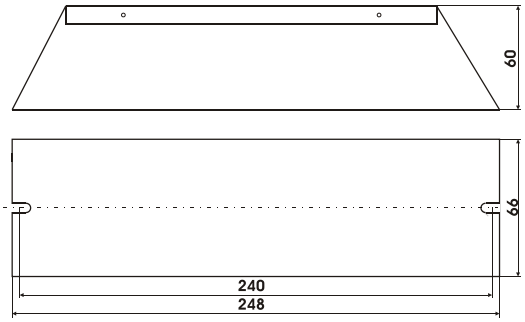
Electronic Ballast for UVC-Lamps with adjustable Lamp Current

Wiring



Dimensions



Features

- Dimm input 1-10 V
- Inrush current limiter
- Potential free relay contact

Technical Data

Type	LT-UVC 1x150 W 1,7 A
Supply	208/230 V AC ± 10 % 50/60 Hz
Input power max.	165 W
Output power single lamp	150 W
Adjustable range of lamp current	1,7 A ± 10 %
Powerfactor	> 0,95
Efficiency	> 0,9
Operating frequency	approx. 28..70 kHz
Inrush current	Î < 40 A to 30 µs / Î < 30 A to 300 µs
Relay Contact	1 changeover contact
Relay Contact – Maximum switching voltage	5 A 250 V AC / 5 A 24 V DC (resistive load)
Relay Contact – Minimum switching load	≥ 5 V DC / 10 mA
Dimm input	Analog 1..10 V DC
Dimm range	to minimal 60 % of lamp current
Standby power dissipation	approx. 2 W
CE-conformity	yes

Type coding

M	Potential free relay contact
D	Dimm 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

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)

LT ELEKTRONIK GERA GmbH
Gewerbepark Keplerstraße 26
07549 Gera

www.lt-elektronik.de

State indications operation/failure

Ballast status	**PFK**	**LED green**	**LED red**	**Description**	**Cause**
No start condition	Off	Perma-nent blink	Perma-nent blink	Ballast waits for start	- Under- or over voltage mains - Over temperature - No lamp connected
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 voltage mains	Off	Off	2x blinking	Switch off at wrong mains	- Mains voltage under limit
Over voltage mains	Off	Off	3x blinking	Switch off at wrong mains	- Mains voltage over limit
Failure lamp voltage	Off	Off	4x 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	5x blinking	Switch off by over current half bridge (abnormal operation)	- Wrong lamp wiring - Shortage on lamp lines - Start without lamps

Mounting instructions

Designed for	Installations in switch cabinet
International protection	IP20
Dimension of case	(248 x 66 x 60) mm
Spacing fixing holes	240 mm
Installation position	Vertical, mains terminal below
Ambient temperature	ta = 0..40 °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: 0,5–2,5 mm² (solid) Cross section: 0,5–1,5 mm² (fine-stranded with ferrule)
Lamp	Cross section: 0,5–2,5 mm² (solid) Cross section: 0,5–1,5 mm² (fine-stranded with ferrule)
Relay contact (PFK):	Cross section: 0,5–2,5 mm² (solid) Cross section: 0,5–1,5 mm² (fine-stranded with ferrule)
Dimm input:	Cross section: 0,2–1,5 mm² (solid) Cross section: 0,25–1,0 mm² (fine-stranded with ferrule)