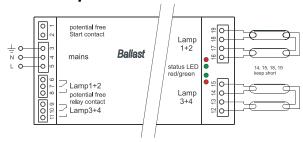


Electronic Ballast for UVC-Lamps with adjustable Lamp Current

Dimensions



Wiring



Features

- Controller based design (rapid start)
- Lamp current adjustable in steps
- 2 separate working lamp channels
- External/internal start alternatively
- Inrush current limiter
- 2 potential free relay contacts
- Opportunity of external potential free LED status indication

255 263

Technical Data

Туре	LT-UVC 4x (3050) W 0,8 A 1,5 A
Supply	230 V AC ± 10 % 50/60 Hz
Input power min. / max.	135 W 220 W
Output power four lamp application	4x30 W 4x50 W
Adjustable range of lamp current	$(0.8 \text{ A} / 1.0 \text{ A} / 1.2 \text{ A} / 1.4 \text{ A} / 1.5 \text{ A}) \pm 10 \%$
Powerfactor	> 0,95
Efficiency	> 0,9
Operating frequency	approx. 2860 kHz
Inrush current	$\hat{I} < 40 \text{ A to } 30 \mu\text{s} / \hat{I} < 30 \text{ A to } 300 \mu\text{s}$
Relay Contact	1 changeover contact
Relay Contact – Maximum switching voltage	5A 250 V AC / 5 A 24 V DC (resistive load)
Relay Contact – Recommended range	\geq 12 V / 10 mA
External start input	10230 V AC / DC (potential free)
Number of starts	1 start / day recommended
Internal / external start	Adjustable by rotating switch
Independent	1 channel fails, other channel keeps in operation
Standby power dissipation	approx. 1 W
CE-conformity	yes

Type coding

R	Rapid start ballast
M	Potential free relay contact
Е	External start input
В	Additional module – selection lamp current
F	Additional module – selection lamp current
	 connection external status LED
	(potential free)

Einstellung Lampenstrom

Adjustment by rotary switch on top of the ballast $\begin{pmatrix} 9 & 0 & 1 \\ 8 & 7 & 6 & 5 \end{pmatrix}$	Pos. 04: internal start (local start) – ballast starts automatically after mains turn on Pos. 59: external start (remote start) – ballast starts by external start signal at the start input No warranty for damages caused by incompatible lamps or wrong adjustments!
Lamp typ	On request
Adjustment of lamp current parameters	Must be carried out before voltage application,
	switching during operation will not be detected

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Adjustment of lamp current

Switch	Lamp current
0/5	0,8 A
1/6	1,0 A
2/7	1,2 A
3/8	1,4 A
4/9	1,5 A

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	Switch off
Shortage on the lamp line	Switch off

General indications

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

State indications operation/failure

Ballast status	PFK	LED	LED	Description	Cause
		green	red	_	
No start condition	Off	Perma-	Perma-	Ballast waits for start	- Under- or over voltage mains
		nent	nent		- Over temperature
		blink	blink		- no lamp connected
					- No HI level at the external start input
Ballast start/ procedure	Off	On	On	Lamp starts	
Ballast works trouble free	Off	On	Off	Electronic ballast / lamp -	
				normal mode	
Failure Temperature	Off	Off	1x	Cut off at over temperature	- Wrong installation
Tanure Temperature	On	OII	blinking	Ambient temperature too high	- No heat dissipation, surface of housing too small
			ommung	Temperature at tc to high	The near dissipation, surface of nearing too small
Under voltage mains	Off	Off	2x	Switch off at wrong mains	- Mains voltage under limit
			blinking	_	
Over voltage mains	Off	Off	3x	Switch off at wrong mains	- Mains voltage over limit
			blinking		
Failure lamp voltage	Off	Off	4x	Switch off	- Wrong lamp type in use
			blinking	Lamp voltage out of tolerance	- End of lamp life
					- Deactivated lamp under operation
					- Rectifier effect of lamp
					- Start with deactivated lamp
Failure over current	Off	Off	5x	Switch off by over current	- Wrong lamp wiring
half bridge			blinking	half bridge	- Shortage on lamp lines
				(abnormal operation)	- Start without lamps

Mounting instructions

Designed for	Installations in switch cabinet	
International protection IP20		
Dimension of case	263 x 74 x 57 mm	
Installation position	Vertical, mains terminal below	
Ambient temperature	ta = 040 °C	
Temperature at tc-point	tc = 50 °C max. 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: 0,75–2,5 mm ² (solid)
Wago 231-303 3 pole Spacing 5,08 mm	Cross section: 0,75–1,5 mm ² (fine-stranded with ferrule)
Lamp	Cross section: 0,75–2,5 mm ² (solid)
Wago 231-304 4 pole Spacing 5,08 mm	Cross section: 0,75–1,5 mm ² (fine-stranded with ferrule)
potential free relay contacts	Cross section: 0,2–1,5 mm ² (solid)
Wago 734-203 3 pole Spacing 3,81 mm	Cross section: 0,25–1,0 mm ² (fine-stranded with ferrule)
external start input	Cross section: 0,2–1,5 mm ² (solid)
Wago 734-202 2 pole Spacing 3,81 mm	Cross section: 0,25–1,0 mm ² (fine-stranded with ferrule)

Alternative - External LED state indication (additional module F necessary)

LED state indication	for external installation in switch cabinet, potential free
Connection of 2 LED	LED green-operation / LED red-failure
Rated voltage for LED	12 V DC max. 20 mA (operation with external resistor)
LED driver	Short circuit protection

Alternative - Mounting external LED state indication (additional module F necessary)

PIN	Allocation	1
1	+12 V	2
2	+12 V	
3	GND LED red channel 1	
4	GND LED red channel 2	
5	GND LED green channel 2	
6	GND LED green channel 1	6————