Technical requirements for electronic control gears for LED- / fluorescent- luminaires for connection at INOTEC central battery systems



Manufacturer: OSRAM GmbH Marcel-Breuer-Str. 6 D-80807 München		Type / Description:								
		Luminaire: EVG: OT FIT 25/220-240/300 D LT2 L (ident code: AM10893) LED:								
						Project / Place / Project ID:		Specified by:		
								Name: D. Graser Company: OSRAM GmbH		
		Date: 18.04.2018								
Features	Techn. data / INOTEC requirements	Explanation	Manufacturer							

Features		Techn. data / INOTEC requirements	Explanation	Manufacturer information	
13	Nominal current of the control gear with connected illuminant in AC- operation (230V)		Selection guide for the calculation of the max. number of luminairs per circuit	See Table1	
	Nominal current of the control gear with connected illuminant in DC- operation (216V)		Selection guide for the calculation of the necessary battery capacity	See Table1	
15	Nominal current of the control gear with connected illuminant in	J-SV-Modul/S (5-120W): > 20mA = OK J-SV-Modul.2/S (20-300W): > 70mA = OK J-SV-Modul.3/S (2-30W): > 12mA = OK	Selection guide for determination of the monitoring module: The values are not to be undercut within the voltage	See Table1	
	DC- operation (186V und 260V) and pre-set luminous flux	J-SV-Modul.4/S (18-120W): > 70mA = OK J-SV-Modul.L/S (20-120W): > 20mA = OK J-SV-Modul T/S (20-100W): > 60mA = OK	range 186VDC - 260VDC to recognise a normal working lamp correctly.	See Table1	
16	Luminous flux in DC- operation (186V)		Important for the safety lighting design	100%	
17	Standby current of the control gear with no illuminant connected or with defective illuminant in DC-operation (186V and 260V)	J-SV-Modul/S (5-120W): < 10mA = n.OK J-SV-Modul.2/S (20-300W): < 45mA = n.OK J-SV-Modul.3/S (2-30W): < 8mA = n.OK J-SV-Modul.4/S (18-120W): < 45mA = n.OK J-SV-Modul.L/S (20-120W): < 10mA = n.OK J-SV-Modul T/S (20-100W): < 50mA = n.OK	Selection guide for determination of the monitoring module: The values are not to be exceeded within the voltage range 186VDC - 260VDC to recognise a lamp failure correctly.	See Table1 (*1)	
18	Max. inrush current of the control gear with connected lamp in AC operation (230V)	Max. permitted inrush current per circuit / monitoring module: SK 4x2A: 250A / 500µs SK 2x4A: 250A / 500µs SK 2x3A: 250A / 500µs SK 1x6A: 250A / 500µs J-SV-Modul T/S: 40A / 500µs all other J-SV-modules: 80A / 500µs	Describes the max. inrush current of all ballasts in a circuit, to calculate the maximum contact rating of the circuit	Ipeak=9A TH=24 μs (*3)	

Luminaires, which should work as emergency lighting, have to be in accordance with DIN EN 60598-2-22. (Particular requirements - Luminaires for emergency lighting).

(*1): The J-SV-monitoring modules monitor the current consumption on the primary side of the control gear for LED modules within the specified limits. Failures of individual LEDs (low-impedance) on the secondary side do not inevitably lead to a modification of current consumption on the primary side, and in such cases cannot be detected as a failure.

(*2): Not to be used in high risk areas, special release required

(*3): For calculation the inrush current of the monitoring module must be taken into consideration!

Notes:

For the correctness:

19.04.2018 na Place, Date

dtmann

Signature

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		Luminaire: EVG: OT FIT 25/220-240/300 D LT2 L (ident code: AM10893) LED:									
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Features	Techn. data / INOTEC requirements	Explanation	Fullfilled (Yes / No)								
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Features		Techn. data / INOTEC requirements	Explanation	Fullfilled (Yes / No)	
1 Voltage range AC		230V ± 10%	Voltage range in normal mains operation	Yes	
2	Voltage range DC	tage range DC 186V - 260V Possible vo		Yes	
3	Control gear suitable for "Joker-Voltage" ?	B2-rectification of the AC voltage (without smoothing)	Pulsating DC voltage	Yes	
4	Control gear compatible with change- over time of the system?	Change-over time: 150 - 1000ms	Typical change-over time of INOTEC systems between mains- and battery operation	Yes	
5	Starting behavior of the control gear in DC operation	Stable current consumption within 3s	Necessary for individual lamp monitoring (SV)	Yes	
6	Control gear complies with the standard: (only for fluorescent lamps)	DIN EN 60929	AC and/or DC-supplied electronic control gear for tubular fluorescent lamps - Performance requirements	Not relevant	
/	Control gear complies with the standard: (only for fluorescent lamps)	DIN EN 61347-2-3 (incl. Attachment J)	Particular requirements for AC and/or DC supplied electronic control gear for fluorescent lamps	Not relevant	
8	Control gear complies with the standard: (only for LED)	DIN EN 62384	DC or AC supplied electronic control gear for LED modules - Performance requirements	Yes	
9	Control gear complies with the standard: (only for LED)	DIN EN 61347-2-13	Lamp control gear - Part 2-13: Particular requirements for DC or AC supplied electronic control gear for LED modules	Yes	
10	Control gear complies with the standard:	DIN EN 55015 (Measurement on AC and DC)	Limits and methods of measurement of radio interference	Yes	
11	Control gear complies with the standard:	DIN EN 61000-3-2	Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current \leq 16 A per phase)	Yes	
12	12 Control gear complies with the DIN EN 61547 Equipment for general lighting purpos immunity requirements			(*2)Yes	

Note: VDE 0108 is not a standard for ECG, marking is not applicable

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Table1:

OSRAM GmbH	Product: OT FIT 25 220-240 300 LT2 L	OSRAM
D-80807 München		

LED controller type	Values for load range	IN in AC-operation (230V) / mA (trms)	IN in AC- operation (240V) / mA (trms)	IN in DC-operation (186V) / mA (trms)	IN in DC- operation (216V) / mA (trms)	IN in DC- operation (240V) /mA (trms)	IN in DC- operation (260V) / mA (trms)
OT FIT 25 220-240 300 LT2 L	Maximum Load /m. Uout= 216V Iout= 113mA	126,98	123,49	144,43	124,80	114,04	108,05
	Minimum Load /m/ Uout= 60V Iout= 35mA		43,09			15,57	
	No Load		28,05	2,93		2,93	3,09
	Short Load		25,71	0,58		0,74	0,79

Maximum inrush current for ECG in AC Operation: Ipeak=9A TH=24µs