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



Manufacturer:	Type / Description:		
OSRAM GmbH	Luminaire:		
Marcel-Breuer-Str. 6	EVG: OT FIT 75 220-240 700 D LT2 UF L (ident code: AM17671)		
D-80807 München	LED:		
Project / Place / Project ID:	Specified by:		
	Name: D. Graser		
	Company: OSRAM GmbH		
	Date: 13.06.2018		

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	186V - 260V	Possible voltage range in emergency operation	Yes	
3	Control gear suitable for "Joker-Voltage" ?	B2-rectification of the AC voltage (without smoothing)			
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	
1	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:	IDIN EN 61000-3-7		Yes	
Control gear complies with the standard:		DIN EN 61547	Equipment for general lighting purposes — EMC immunity requirements	(*2)Yes	

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

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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	
14	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	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	lpeak=18Α TH=191 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).

For the correctness:

ardy 13.06.2018

Place, Date

DS D SST Dr. Kay Softmidtmann DS OW LAB&SOM Bernhard Schemmel

Signature

^{(*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:

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Manufacturer:	Product:	
OSRAM GmbH		OCDAM
Marcel-Breuer Str. 6	OT FIT 75 220-240 700 D LT2 UF L	OSRAM
D-80807 München		

Table 1

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 75 220-240 700 D LT2 UF L	Maximum Load /m Uout= 54V lout= 1050mA	357,58	342,83	434,50	375,46	335,57	307,30
	Minimum Load /m. Uout= 27V lout= 800mA		69,27			46,06	
	No Load		40,56	1,45		1,45	1,40
	Short Load		40,57	1,41		1,45	1,40

Maximum inrush current for ECG in AC Operation:

Ipeak=18A

TH=191µs

