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 Project / Place / Project ID:			Type / Description: Luminaire: EVG: OT FIT 75/220-240 1A4 CS L EL (ident code: AM04353) LED: Specified by: Name: D. Graser Company: OSRAM GmbH Date: 29.06.2017							
							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)	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
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						
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Note: VDE 0108 is not a standard for ECG, marking is not applicable

DIN EN 61000-3-2

DIN EN 61547

Control gear complies with the

Control gear complies with the

11

12

standard:

standard:

Yes

(*2)Yes

Electromagnetic compatibility (EMC) - Part 3-2: Limits -

Limits for harmonic current emissions (equipment input

Equipment for general lighting purposes - EMC

current ≤ 16 A per phase)

immunity requirements

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OSRAM GmbH			
Marcel-Breuer-Str. 6	EVG: OT FIT 75/220-240 1A4 CS L EL (ident code: AM04353) LED:		
D-80807 München			
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	Name: D. Graser		
	Company: OSRAM GmbH		
	Date: 29.06.2017		

	Features	Techn. data / INOTEC requirements	Explanation	Manufacturer information
2.50	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 DC- operation (186V und 260V)	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 J-SV-Modul.4/S (18-120W): > 70mA = OK	K Selection guide for determination of the monitoring module: K The values are not to be undercut within the voltage range 186VDC - 260VDC to recognise a normal working	See Table1
	and pre-set luminous flux	J-SV-Modul.4/S (18-120W): > 70mA = 0K J-SV-Modul.L/S (20-120W): > 20mA = 0K J-SV-Modul T/S (20-100W): > 60mA = 0K		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=32A TH=193 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:

13.99,291 lace, Date



Signature