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



Manufacturer:			Type / Description:										
OSRAM GmbH Marcel-Breuer-Str. 6 D-80807 München			Luminaire: EVG: OT FIT 75/220-240/550 D NFC L (ident code: AM10971) LED:										
							Prc	ject / Place / Project ID:		Specified by: Name: D. Graser Company: OSRAM GmbH Date: 16.07.2018			
1													
	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:	DIN EN 62384	DC or AC supplied electronic control gear for LED modules - Performance requirements	Yes									

Lamp control gear - Part 2-13: Particular requirements for

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

Equipment for general lighting purposes — EMC

Limits for harmonic current emissions (equipment input

DC or AC supplied electronic control gear for LED

Limits and methods of measurement of radio

modules

interference

current ≤ 16 A per phase)

immunity requirements

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

DIN EN 61347-2-13

(Measurement on AC and DC)

DIN EN 55015

DIN EN 61000-3-2

DIN EN 61547

(only for LED)

(only for LED)

standard:

standard:

standard:

standard:

9

10

11

12

Control gear complies with the

Yes

Yes

Yes

(*2)Yes

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OSRAM GmbH	Luminaire:			
Marcel-Breuer-Str. 6	EVG: OT FIT 75/220-240/350 D NFC L (ident code: AM10971)			
D-80807 München	LED:			
Project / Place / Project ID:	Specified by:			
	Name: D. Graser			
	Company: OSRAM GmbH			
	Date: 16.07.2018			

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 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 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=32A TH=122 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:

16.07.200

Place, Date



Signature

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Table1:

Manufacturer:	Product:	
OSRAM GmbH		OCDAN
Marcel-Breuer Str. 6	OT FIT 75 220-240 550 D NFC L	USRAM
D-80807 München		

Table1:

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 75 220-240 550 D NFC L	Maximum Load /m Uout= 54V lout= 1050r	372,67 A	357,16	463,58	392,94	351,16	322,78
	Minimum Load /m. Uout= 27V lout= 800m	x	71,10			39,40	
	No Load		31,69	0,67		0,67	0,73
	Short Load		31,69	0,79		1,17	1,22

Maximum inrush current for ECG in AC Operation: Ipeak=32A TH=122µs

