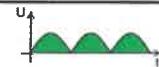


**Technical requirements for electronic control gears for LED and fluorescent luminaires (dimmable or non-dimmable) for operation on INOTEC central battery systems (CPS 220 / CPS FUSION) and emergency power supply systems (NEA)**



**- General requirements -**

Manufacturer:	Type / Description: Luminaire EVG: OT 75/170-240/1A0 4DIMLT2 G2 CE (AM35338) LED:
Project / Place / Project ID:	Specified by: Name: G.Ruggieri Company: OSRAM GmbH Date: 12.03.2020

Features		Techn. data / INOTEC requirements	Explanation	Fulfilled (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 AC and DC operation	Stable current consumption within 1.6s	Necessary for individual lamp monitoring (SV). The nominal current of the control gear must be reached within this time if the lamp is intact or defective.	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
7	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 ≤ 16 A per phase)	Yes
12	Control gear complies with the standard:	DIN EN 61547	Equipment for general lighting purposes — EMC immunity requirements	Yes
13	Control gear complies with the DALI-standards:	DIN EN 62386-101 /-102 / -207	The control and status information for monitoring the luminaire is provided via DALI commands. The DALI commands must be 100% compatible.	Yes

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

**Technical requirements for electronic control gears for LED and fluorescent luminaires (dimmable or non-dimmable) for operation on INOTEC central battery systems (CPS 220 / CPS FUSION) and emergency power supply systems (NEA)**



**- Technical specifications -**

Manufacturer:	Type / Description: Luminaire EV6: OT 75/170-240/1A0 4DIMLT2 G2 CE (AM35336)
Project / Place / Project ID:	Specified by: Name: G.Ruggieri Company OSRAM GmbH Date: 12.03.2020

Features	Explanation	Manufacturer spec.
14 Nominal current of the control gear with connected illuminant in AC-operation (230V)	Selection guide for the calculation of the max. number of luminaires per circuit	Table 1 mA
15 Nominal current of the control gear with connected illuminant in DC-operation (180V / 210V / 240V)	Selection guide for the calculation of the necessary battery capacity and selection guide for determination of the monitoring module to recognise a normal working lamp correctly.	Table 1 mA (240V) Table 1 mA (210V) Table 1 mA (180V)
16 Nominal current of the control gear with connected illuminant at set dimming level in DC-operation (180V / 210V / 240V) (for dimmable control gear)	Selection guide for determination of the monitoring module to recognise a normal working lamp correctly.	Table 1 mA (240V) Table 1 mA (210V) Table 1 mA (180V)
17 Current consumption of the control gear without or with defective illuminant in DC-operation (180V and 240V)	Selection guide for determination of the monitoring module to recognise a lamp failure correctly.	Table 1 mA (240V) Table 1 mA (180V)
18 Current consumption of the control gear without or with defective illuminant in AC-operation (230V)	Selection guide for determination of the monitoring module to recognise a lamp failure correctly.	Table 1 mA
19 Dimming level in emergency mode (DC or "Joker") (for dimmable control gear, if activated)	Important for the safety lighting design	100 (*1) %
20 DC detection completely deactivatable? (for dimmable control gear)	To ensure correct operation, the control gear should not react to a change of the input voltage (DC or "Joker"). In this case, the INOTEC DALI module (DALI-SV module or FMD 230/DALI) controls the control gear.	Yes
21 Max. Inrush current of the control gear with connected illuminant in AC-operation (230V)	Important for determining the maximum permissible number of luminaires per circuit in order to take account of the maximum contact load capacity of the circuit changeover circuit or monitoring module.	54 / 190 A/μs
22 Use of DALI commands according to IEC 62386 part 102: - DPAC (level) - RECALL MAX LEVEL 0x05 - RECALL MIN LEVEL 0x06 - QUERY STATUS 0x90 - QUERY ACTUAL LEVEL 0xA0 - QUERY LAMP FAILURE 0x92	Control and status information for monitoring the luminaires: - Direct setting of a dimming value - Set maximum level - Set minimum level - Requests status telegram - Requests current dimming value - Requests lamp failure status (after 2 / 2.5 / 3 seconds!)	Yes

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

**Note:**

\*1) The DC-Output Level is locked in DC Mode to 100% as preset factory setting

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

For the correctness:

Treviso, 12.03.2020

Place, Date

Stand: Sep. 2019

Signature MICHAEL SCHENKEL  
  
DS QM LAB&SOM  
Bernhard Sonnenburg

**Technical requirements for dimmable DALI control gears  
for fluorescent lamps and LED**



Manufacturer: OSRAM GmbH Marcel-Breuer Str. 6 D-80807 München	Product: <b>OT 75/170-240/1A0 4DIMLT2 G2 CE</b>	OSRAM GmbH
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Table 1

LED controller type	Values for load range		IN in AC-operation (230V) / mA (rms)	IN in AC-operation (240V) / mA (rms)	IN in DC-operation (186V) / mA (rms)	IN in DC-operation (216V) / mA (rms)	IN in DC-operation (240V) / mA (rms)	IN in DC-operation (260V) / mA (rms)
<b>OT 75/170-240/1A0 4DIMLT2 G2 CE</b>	Minimum Load /mA	Uout= 35 V Iout= 200 mA	69	67	53	46	42	39
	Medium Load /mA	Uout= 71 V Iout= 525 mA	108	107	118	102	92	85
	Maximum Load /mA	Uout= 71 V Iout= 1050 mA	192	185	229	197	177	164
	No Load		43	44	7	7	6	6
	Short Load		40	42	1	1	3	3

Maximum inrush current for ECG in AC Operation: Ipeak = 54 A TH = 190 µs