

Manufacturer: OSRAM GmbH Marcel-Breuer-Str. 6			Type / Description: Luminaire: EVG: Oti DALI 90/220-240/700 LT2 L (ident code: AM00140)			
Pro	oject / Place / Project ID:		Specified by:			
			Name: D. Graser			
			Company: OSRAM GmbH Date: 22.06.2017			
	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		

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 1,6s 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
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 \leq 16 A per phase)	YES
12	Control gear complies with the standard:	DIN EN 61547	Equipment for general lighting purposes — EMC immunity requirements	(*3) YES
13	Control gear complies with the DALI- standards:	DIN EN 62386-101 /-102 / -207	/-102 / -207 Control gear must have the DALI Logo	

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



Manufacturer:	Type / Description:		
DSRAM GmbH Narcel-Breuer-Str. 6 D-80807 Munich	Luminaire:		
Marcel-Breuer-Str. 6	EVG: Oti DALI 90/220-240/700 LT2 L (ident code: AM00140)		
DSRAM GmbH Marcel-Breuer-Str. 6 D-80807 Munich	LED:		
OSRAM GmbH	Specified by:		
	Name: D. Graser		
	Company: OSRAM GmbH		
	EVG: Oti DALI 90/220-240/700 LT2 L (ident code: AM00140) LED: Specified by: Name: D. Graser		

Features		Techn. data / INOTEC requirements	Explanation	Manufacturer information	
14	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	
15	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	
16	Behavier control gear in DC operation: - Unlocked light output level - Locked light output level (Dimming on DC)	The DC-light output settings on the DALI-SV- Module is only active if control gear is unlocked	In case of locked DC light output level, the DC level of the DALI-SV-Module is not active!	(*4) locked	
17	Light output level in DC operation with locked light output level (Dimming on DC)	No control of light output level from DALI-SV- Module in DC operation possible	Locked light output level in %. Important for lighting design.	(*4) 15%	
18	Using the DALI command 146 (Query Lamp Failure) acc. IEC 62386 Part 102	According to IEC 62386 Part 102	Important for function test: To detect a lamp failure, the DALI-SV-Module send the DALI command query 146 to the DALI driver Attention: The query is made after 2 / 2,5 / 3 seconds	YES	
	Max. inrush current of the control gear with connected illuminant in AC operation (230V)	Max. permitted inrush current per circuit: SK 4x2A: 250A / 500μs SK 2x4A: 250A / 500μs SK 2x3A: 250A / 500μs SK 1x6A: 250A / 500μs	Describes the max. inrush current of all ballasts in a circuit, to calculate the maximum contact rating of the circuit	27A / 193 μs (*2)	

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

Notes:

(*1): Control of DALI-SV-Module to the DALI driver is 100% done via DALI-commands according to IEC 62386-101 /-102, so the DALI driver must sign with the DALI logo.

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

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

(*4): The light input level is locked in DC-operation. Factory setting is 15% of the maximum level. It is possible to change the behavior of the controlgear in DC-operation.

For the correctness:

Munich, 22.06.2017

Place, Date



DS QM LAB&SOM

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

Product:



OSRAM

Table1:

Manufacturer: OSRAM GmbH Marcel-Breuer Str. 6 D-80807 München

Oti DALI 90/220-240/700 LT2 L

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)
Oti DALI 90/220-240/700 LT2 L							
	Umin, Imin	91,97	90,62	20,81	17,71	15,88	15,04
	Umin, Imax	198,93	177,43	41,00	34,96	31,30	28,89
5	Umax, Imin	300,20	287,10	63,29	54,41	48,55	44,78
	Umax, Imax	453,47	431,25	85,51	73,26	65,96	60,48
	Open Load	25,38	32,04	2,28	2,19	2,14	2,13
X	Short Load	25,53	32,04	1,50	2,18	2,15	2,12

Maximum inrush current for ECG in AC Operation

lpeak= TH= 27 Α 193 μs