

Requirements for	dimmable DALI control gear	rs for fluorescent lamps and LED	Version 3				
Manufacturer: OSRAM GmbH Marcel-Breuer-Str. 6 D-80807 München	ECG-type: OTi DALI 25/220-240/300 I	Manufacturer information Complies: YES/NO					
Features:	CEAG data:	Explanation:					
Control gear suitable for a DC voltage range:	186V - 260V DC (for Lead-Battery)	Possible voltage range of the battery in emergency mode. (Not for AT-S <sup>+</sup> Systems required)	YES				
Control gear compatible with the switch-over time of the system?	Switch-over time: 180 ms - 450 ms	7/					
Starting behavior of the control gear:	Stable current consumption after less than 1.6 sec. maximum.	YES					
only for flourescent lamps: Control gear complies with the standard:	DIN EN 60929	AC and/or DC-supplied electronic control gear for tubular fluorescent lamps - Performance requirements	Not Relevant				
only for flourescent lamps: Control gear complies with the standard:	DIN EN 61347-2-3 (incl. Attachment J)	Particular requirements for AC and/or DC supplied electronic control gear for fluorescent lamps					
only for LED: Control gear complies with the standard:	DC. Or AC supplied electronic control gear for LED modules Performance requirements		YES				
only for LED: Control gear complies with the standard:	DIN EN 61347-2-13	Lamp controlgear — Part 2-13: Particular requirements for d. c. or a. c. supplied electronic controlgear for LED modules					
Fullfilled the standard:	DIN EN 55015 (Measurement on AC And DC)						
Fullfilled the standard:	Electromagnetic compatibility (EMC) — Part 3-2: Limits — Limits for harmonic current emissions (equipment input current ≤ 16 A per phase)		YES				
Fullfilled the standard:	DIN EN 61547	Equipment for general lighting purposes — EMC immunity requirements	YES				
Fullfilled the DALI standards:	DIN EN 62386-101 /-102 / -207*	Control gear must have the DALI Logo*	YES				
Note: VDE 0108 is not a standard for ECG, mar	king is not applicable						
Features:	CEAG-Data:	Explanation:	Manufacturer information:				
Important for function test! According to IEC 62386 Part 102 Support of : DALI command 145 (Query Control Gear) DALI command 146 (Query Lamp Failure)	According to IEC 62386 Part 102	To detect a lamp failure, the V-CG-SB.1 module send DALI command queries (145/146) to the DALI LED driver. These DALI commands are necessary to ensure the lamp failure detection, and must be support by the control gear.	YES				
Important for DC operation: DALI light level	In case of locked DALI light level in DC operation (EOF=Emergency Output Level),	In DC-emergency case the DALI-Light Level is locked to prevent unwanted changes of the luminous flux.	LOCKED				
mportant for lighting design: f DALI-Light level is locked, the value of the preset DC-Lightlevel in %) is required	the V-CG-SB.1 can not change the light	Pre-set DC-Light Level ** e.g. 15% (DALI-value 185 for logarithmic dimming curve)	15%				
Note: Important for the planning - I							
Important for the contact load SKU: Max. inrush current each converter/luminaire in AC-operation:	Max. permitted inrush current per circuit:  SKU 2 x 3A (CG) => 120 A  SKU 1 x 6A (CG) => 180 A  SKU 4 x 1,5A CG-S => 60 A  SKU 2 x 3A CG-S => 250 A  SKU 1 x 6A CG-S => 250 A  SOU CG-S // S* => 250 A  SU S* => 250 A	Precircuit:  Ipeak = 21 A, TH = 160 μs  Describes the max. inrush current of all ballasts in a circuit, to calculate the maximum contact rating of the circuit.					
Lumir	naires, which are used for emergency lighting	I g, must be according to the standard DIN EN 60598-2-22 uminaires for emergency lighting)					

<sup>\*</sup>Control of V-CG-SB.1 to the DALI LED driver is 100% done via DALI-commands according to IEC 62386-101 /-102

## Not to be used in high risk areas, special release required. Max. 1 DALI- Driver to wire with 1 V-CG-SB.1

In use of manifold ballasts, the different lamp failure detection of the manufacturer must be consider! Some devices don't detect a failure if one lamp is defect.

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so the DALI LED driver must sign with the DALI logo

\*\* The DC-Light Level preset value ex factory ( luminous flux in case of DC-voltage) can be adjusted project depending via DALI Magic and T4 Tronic in AC-operation
To enable the adjustment of the luminous flux via the DALI - Module V-CG-SB.1, the DC detection has to be deactivated via T4T.

Manufacturer:	Product:	
OSRAM GmbH		
Marcel-Breuer Str. 6 D-80807 München	OTi DALI 25/220-240/300 D NFC F L	OSRAM GmbH

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)
OTi DALI 25/220-240/300 D NFC F L	Maximum Load /mA	Uout= lout=	82V 300mA	136	131	29	25	22	21
	Medium Load /mA	Uout= lout=	83V 150mA	86	84	19	16	14	13
	Minimum Load /mA	Uout= lout=	55V 35mA	53	53	8	7	6	5
	No Load			49	48	1	1	1	1
	Short Load			49	48	0	1	1	1

Maximum inrush current for ECG in AC Operation:

Ipeak = 21 A

TH =  $160 \, \mu s$