

Requirements for t	dimmable DALI control gear		Version 3			
Manufacturer:	ECG-type: OTi DALI 10/220-240/700	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 ⁺ Systems required)	Yes			
Control gear compatible with the witch-over time of the system?	Switch-over time: 180 ms - 450 ms	Typical switch-over time of CEAG systems between mains supply and emergency power supply	Yes			
Starting behavior of the control gear:	Stable current consumption after less than 1.6 sec. maximum.	A stable operation of the control gear after 1.6 seconds of start up is required for the right functionality of the individual monitoring. With max. 20 luminaires for one current circuit: Δ I in sum < 250 mA are allowed	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:	Particular requirements for AC and/or DC supplied elecontrol gear for fluorescent lamps		Not relevant			
only for LED: Control gear complies with the standard:	DIN EN 62384	DC. Or AC supplied electronic control gear for LED modules Performance requirements				
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) Limits and methods of measurement of radio dis characteristics of electrical lighting and similar ed		Yes			
Fullfilled 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			
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			
lote: VDE 0108 is not a standard for ECG, mark	ing is not applicable					
Features:	CEAG-Data:	Explanation:	Manufacturer information:			
mportant 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			
mportant 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 level!	Pre-set DC-Light Level ** e.g. 15% (DALI-value 185 for logarithmic dimming curve)	15%			
Note: Important for the planning -	Max. no. Of luminiares per circuit					
nportant for the contact load SKU: lax. inrush current each onverter/luminaire in C-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	Inrush current of one LED driver: 5 A / 100 μs Describes the max. inrush current of all ballasts in a circuit, to calculate the maximum contact rating of the circuit.				
Lumina	aires, which are used for emergency lighting	must be according to the standard DIN EN 60598-2-22 uminaires for emergency lighting)				

*1: The DC Output Level is locked in DC Mode to 15% as preset factory setting.

This preset value can be adjusted project depending via DALI Magic and T4 Tronic.

To enable the adjustment of the DC output level via the V-CG-SB.1, the DC detection has to be deactivated via T4T.

*2: Not to be used in high risk areas, special release required.

This LED driver declaration does not substitute a system test and release in a specific installation.

Date: 14.May 2020

Manufacturer:	Product:	
OSRAM GmbH		
Marcel-Breuer Str. 6	OTi DALI 10/220-240/700 NFC	OSRAM GmbH
D-80807 München	(AM29184)	

Table 1

			Nominal current of the control gear with connected illuminant in AC-operation		Nominal current of the control gear with connected illuminant in DC- operation (Default output current in emergency mode = 15%)			
Values for load range			I _N @U _N = 230V [mA trms]	I _N @U _N = 240V [mA trms]	I _N @U _N = 186V [mA trms]	I _N @U _N = 216V [mA trms]	I _N @U _N = 240V [mA trms]	I _N @U _N = 260V [mA trms]
Minimum Load /mA	Uout= lout= P=	10 V 150 mA 1,5 W	28	28	24	22	20	19
Medium Load /mA	Uout= lout= P=	14 V 315 mA 4,4 W	38	37	24	23	21	20
Maximum Load /mA	Uout= lout= P=	14 V 700 mA 10 W	60	58	29	26	23	22
Open Load /mA			22	21	23	21	20	19
Short Load /mA			22	21	23	21	20	19

Remarks:

This table shows the currents consumption of the driver at three different operating points (Pmax, Pmed, Pmin) for AC and DC operation.

In DC operation the output current is reduced to 15% light level according to the default parameter setting. This level can be changed via T4T.