

Requirements for	Version 4						
Manufacturer: OSRAM GmbH Marcel-Breuer-Str. 6 D-80807 München	Ty ECG-type: OTi DALI 10/220-240/700 N	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 switch- 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.	YES					
Control gear compatible with CEAG STAR-Technology:	Phase-cut telegram (PAT): max. 30 phases (half waves) with max. 60° phase-cuts During the CEAG STAR switching process, up to 30 half-waves are cut at a maximum of 60°. The control gear must not exhibit any malfunctions such as switching off, flickering		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	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:	N EN 55015 Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment		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				
Note: VDE 0108 is not a standard for ECG, markin	ng is not applicable T						
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				
Important for lighting design: If 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 - N							
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	5A/100us The declaration of the inrush current of the luminaire is important, to calculate the max. possible luminaires on one circuit, to consider the max. contact load limitation of the circuit.					
Luminaires, which are used for emergency lighting, must be according to the standard DIN EN 60598-2-22 (particular requirements - Luminaires for emergency lighting)							

*Control of V-CG-SB.1 to the DALI LED driver is 100% done via DALI-commands according to IEC 62386-101 /-102 so the DALI LED driver must sign with the DALI logo

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.

Manufacturer:	Product:	
OSRAM GmbH		
Marcel-Breuer Str. 6	OTi DALI 10/220-240/700 NFC I	OSRAM GmbH
D-80807 München	(EAN 4062172151252)	OSILAW GILLST

Table 1

Values for load range		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%)				
			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=	10V 150 mA 0,15W	20	20	7	7	6	6
Medium Load /mA	Uout= lout= P=	14,8V 350 mA 5,2W	32	31	10	9	8	8
Maximum Load /mA	Uout= lout= P=	15,5V 646 mA 10 W	56	54	18	16	14	14
Open Load /mA			6	6	4	4	4	4
Short Load /mA			6	6	4	4	4	4

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.