

Max. 1 DALI- Driver to wire with 1 V-CG-SB.1

Requirements for	dimmable DALI control gea	rs for fluorescent lamps and LED	Version 4			
Manufacturer: OSRAM GmbH Marcel-Breuer-Str. 6 D-80807 München	ECG-type: OTi_DALI_15_220-240_1A0_NFC_LP EAN: 4062172227674 Date: 10.05.2022					
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	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: $\Delta$ I in sum < 250 mA are allowed	YES			
Control gear compatible with CEAG STAR-Technology:	Phase-cut telegram (PAT): max. 30 phases (half waves) with max. 60° phase-cuts	gram (PAT): During the CEAG STAR switching process, up to 30 half-				
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	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	YES			
Fullfilled the standard:	DIN EN 55015 (Measurement on AC And DC)	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, man	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.	inomation.			
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.				
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)				
Note: Important for the planning -						
mportant 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 <sup>+</sup> => 250 A	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 circu				
Lumir		g, must be according to the standard DIN EN 60598-2-22				
****	<u> </u>	uminaires for emergency lighting)				
*Control of V-CG-SB.1 to the DALI LEI so the DALI LED driver must sign with Max. 1 DALI- Driver to wire with 1 V-		oraing to IEC 62386-101 /-102				

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.

17.March.2020

Manufacturer:	Product:	
OSRAM GmbH		
Marcel-Breuer Str. 6	OTi_DALI_15_220-240_1A0_NFC_LPI	OSRAM GmbH
D-80807 München	( 4062172227735)	

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 <sub>N</sub> @U <sub>N</sub> = 230V [ mA trms ]	I <sub>N</sub> @U <sub>N</sub> = 240V [ mA trms ]	I <sub>N</sub> @U <sub>N</sub> = 186V [ mA trms ]	I <sub>N</sub> @U <sub>N</sub> = 216V [ mA trms ]	I <sub>N</sub> @U <sub>N</sub> = 240V [ mA trms ]	I <sub>N</sub> @U <sub>N</sub> = 260V [ mA trms ]
Minimum Load /mA	Uout= lout= P=	8.28 V 150.9 mA 1.25 W	28,4	28,7	11,9	11,6	11,3	11,1
Medium Load /mA	Uout= lout= P=	6.35 V 1053 mA 6.69 W	48,7	47,6	13,7	13,0	12,8	12,9
Maximum Load /mA	Uout= lout= P=	15.44 V 1053 mA 16.25 W	90,6	87,4	20,8	18,6	17,4	16,4
Short Load			23,0	23,7	11,7	11,4	11,0	10,9
Open Load			22,8	23,5	11,5	11,3	11,0	10,9

## 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.