

	T.	ype / description:					
Manufacturer: OSRAM GmbH Marcel-Breuer-Str. 6 D-80807 München	T ECG-type: OT DALI CV 50/220-240/24 4CH I Date: 21.07.2022	Manufacturer information Complies: YES/No					
Features:	CEAG data:						
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.	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				
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	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 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.	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 -							
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' => 250 A SU S' => 250 A	41A/150us per pcs.  The declaration of the inrush current of the luminaire is important, to calculate the mapossible luminaires on one circuit, to consider the max. contact load limitation of the circuit.					

\*Control of V-CG-SB.1 to the DAL! 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.

06.March,2021

Manufacturer:	Product:	
OSRAM GmbH		
Marcel-Breuer Str. 6	Oti 50/220-240/24 4CH DT6-DT8 G3	OSRAM GmbH
D-80807 München	4062172274289	OSKAWI GMDH

## Table 1

					AC-operation				(For DALI Dev	DC-Operation ices @ default DC Dim	level e.g. 15%)	
Values for load range			189VAC/50Hz ltrms_in ( mA )	230VAC/50Hz itrms_in ( mA )	240VAC/50Hz ltrms_in ( mA )	264VAC/50Hz itrms_in ( mA )	AC Dali level	186VDC ftrms_in ( mA )	216VDC ltrms_in ( mA )	240VDC ltrms_in ( mA )	260VDC ltrms_in ( mA )	DC Dali Level
Min. Load /mA	P_out=	15 W	98	81	79	75	210	94	80	72	67	210
Mid. Load /mA	P_out=	25 W	149	123	119	112	229	149	128	114	106	229
Max. Load /mA	P_out=	50 W	282	230	221	204	254	283	242	217	200	254
Short/Open Load			25	29	30	32		10	10	9	10	

## Remarks:

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

2.) This table is intended for rough design desicions . It is not a replacement for individual functional measurments!

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