

Requirements for o	dimmable DALI control gear	rs for fluorescent lamps and LED	Version 5	
Manufacturer: DSRAM GmbH Marcel-Breuer-Str. 6 D-80807 München	ECG-type: OT DALI CV 80/220-240/24 4CH I Date: 20.07.2022	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 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	
Control gear compatible with CEAG	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	
nly for LED: Control gear complies with the tandard:	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 61647	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, mar	king is not applicable			
Features:	CEAG-Data:	Explanation:	Manufacturer information:	
mportant for function test! According to IEC 62386 Part 102 Support of : JALI command 145 Query Control Gear) JALI 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: 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			
nportent for the contact load SKU: flax, inrush current each onverter/luminaire in	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 SU CG-S // S' => 250 A	tant, to calculate the max t load limitation of the circu		

*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.

06.March.2021

	Product:	
OSRAM GmbH		
Marcel-Breuer Str. 6	Oti 80/220-240/24 4CH DT6-DT8 G3	OSRAM GmbH
D-80807 München	4062172274302	OSKAWI GMDH

Table 1

			AC-operation					DC-Operation (For DAU Devices @ 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 ltrms_in (mA)	AC Dall level	186VDC itrms_in (mA)	216VDC Itrms_in (mA)	240VDC Itrms_in (mA)	260VDC ltrms_in (mA)	DC Dali Level
Min. Load /mA	P_out=	15 W	104	94	92	90	194	101	87	78	72	194
Mid. Load /mA	P_out=	40 W	235	194	188	174	229	242	207	185	171	229
Max. Load /mA	P_out=	80 W	456	374	357	327	254	468	398	357	329	254
Short/Open Load			39	39	40	42		13	11	11	11	/

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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