

Requirements for o	dimmable DALI control gear	rs for fluorescent lamps and LED	Version 5			
Manufacturer: OSRAM GmbH Marcel-Breuer-Str. 6 D-80807 München	ECG-type: OTi DALI 75/220-240/500 E	Manufacturer information Complies: YES/NO				
Features:	CEAG data:	Explanation:	·			
Control gear suitable for a DC voltage range:	186V - 260V DC (for Lead-Battery)	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	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:	N 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, mark	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			
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 - I	Max. no. Of luminiares per circuit					
mportant for the contact load SKU: Max. inrush current each converter/luminaire in AC-operation:	Max. permitted inrush current per circuit: $SKU 2 \times 3A (CG) => 120 A$ $SKU 1 \times 6A (CG) => 180 A$ $SKU 4 \times 1,5A CG-S => 60 A$ $SKU 2 \times 3A CG-S => 250 A$ $SKU 1 \times 6A CG-S => 250 A$ $SCU CG-S // S^+ => 250 A$ The declaration of the inrush current of the luminaire is important, to calculate possible luminaires on one circuit, to consider the max. contact load limitation $SU S^+ => 250 A$					
Lumir		g, must be according to the standard DIN EN 60598-2-22 uminaires 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 75/220-240/500 D NFC F L	OSRAM GmbH
D-80807 München	(4062172020787)	OSKAW GIIISH

Table 1

			AC-operation				DC-Operation (For DALI Devices @ default DC Dim level e.g. 15%)			
Values for load range		189VAC/50Hz Itrms_in (mA)	230VAC/50Hz Itrms_in (mA)	240VAC/50Hz Itrms_in (mA)	264VAC/50Hz Itrms_in (mA)	186VDC Itrms_in (mA)	216VDC Itrms_in (mA)	240VDC Itrms_in (mA)	260VDC Itrms_in (mA)	
Min. Load /mA	P_out=	6,5 W	not supported (58)	55	55	54	31	28	27	25
Mid. Load /mA	P_out=	35 W	not supported (207)	176	170	156	48	44	40	37
Max. Load /mA	P_out=	75 W	not supported (424)	357	342	312	74	65	60	55
Short/Open Load			not supported (31)	33	34	34	26	26	26	26

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!