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Manufacturer: DSRAM GmbH Marcel-Breuer Str. 6	Manufacturer information					
D-80807 München	PL-FLAT-AC-DA-G3 4000	Complies: YES/NC				
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	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	NO			
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	Not Relevant			
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	NO(DIN EN 62031)			
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, mark	king is not applicable					
Features:	CEAG-Data:	Explanation:	Manufacturer information:			
mportant 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)	25%			
Note: Important for the planning -	Max. no. Of luminiares per circuit					
mportant for the contact load SKU: //ax. 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	1.8A 5.25us / 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 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: OSRAM GmbH Marcel-Breuer Str. 6 D-80807 München		Product: PL-FLAT-AC-DA-G3 4000-830 230V (4052899605626) PL-FLAT-AC-DA-G3 4000-840 230V (4052899605640)				OSRAM GmbH	
		AC-operation		DC-operation		ı	
LED controller type	Values for load range	In in ACoperation (230V)/mA ( trms)	In in ACoperation (240V)/mA ( trms)	In in DCoperation (186V)/mA ( trms)	In in DCoperation (216V)/mA (trms)	In in DCoperation (240V)/mA (trms)	In in DCoperation (260V)/mA (trms)
	Maximum Load Pout=18.6	113.5	112	28.6	28.7	28.8	28.9
	Medium Load Pout = 9.4	67	67.5	28.6	28.7	28.8	28.9
PL-FLAT-AC-DA-G3 4000 230V							
	Minimum Load Pout = 0.3	3.2	3.3	28.6	28.7	28.8	28.9
	Standby Pout = 0	1.7	1.7	28.6	28.7	28.8	28.9
	Short	not applica					
	Open	not applica					

Remarks:

This table shows the currents consumption of the driver at three different operating points (Pmax, Pmid, Pmin) for AC and DC operation. AC flat -> ECG and LE in one housing, no short/open load