

Manufacturer: DSRAM GmbH Marcel-Breuer-Str. 6	ECG-type: OT 165/170-240/1A0 4DIM NFC G	Manufacturer information						
D-80807 München	Date: 03.02.2022	Complies: YES/NO						
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 ⁺ 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	rking 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.	Not 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)	(*1) 100%					
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 1 x 6A (CG) => 180 A SKU 4 x 1,5A CG-S => 60 A SKU 2 x 3A CG-S => 250 A The declaration of the inrush current of the luminaire is important, to calculate							

*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

(*1) Emergency feature is disable and factory setting is 100% of the Dali light level. In DC mode at the 100% of Dali light level, the output current is limited. It is possibe enable Emergency feature with DALI magic and Tuner 4 Tronic

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.

Technical requirements for dimmable DALI control gears for fluorescent lamps and LED



Manufacturer:	Product:	
OSRAM GmbH		
Marcel-Breuer Str. 6 D-80807 München	OT 165/170-240/1A0 4DIM NFC G3 CE	OSRAM GmbH

Table 1

LED controller type	Values for load range			IN in AC-operation (230V) / mA (trms)	IN in AC- operation (240V) / mA (trms)	IN in DC-operation (186V) / mA (trms)	IN in DC- operation (216V) / mA (trms)	IN in DC- operation (240V) / mA (trms)	IN in DC- operation (260V) / mA (trms)
OT 165/170-240/1A0 4DIM NFC G3 CE	Maximum Load /mA	Uout= lout=	90 V 150 mA	104	101	89	77	70	65
	Medium Load /mA	Uout= lout=	157 V 525 mA	392	373	480	408	366	341
	Minimum Load /mA	Uout= lout=	157 V 1050 mA	776	742	738	633	568	523
	No Load			54	56	3,8	4,6	5	5,3
	Short Load			54	56	3,3	3,8	4,2	4,5

Maximum inrush current for ECG in AC Operation:

Ipeak = 70,75 A TH = 177 μs

