

Manufacturer: OSRAM GmbH Marcel-Breuer-Str. 6 D-80807 München	T <u>y</u> ECG-type: OTi DALI 50/220-240/1A4 N	Manufacturer information 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: $\Delta$ 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	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 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				
lote: VDE 0108 is not a standard for ECG, markir	ng is not applicable		Manufacturer				
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				
<u>mportant for DC operation:</u> 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 - M	ax. no. Of luminiares per circuit						
mportant for the contact load SKU: Max. inrush current each onverter/luminaire in AC-operation:	Max. permitted inrush current per circuit:SKU 2 x 3A (CG)=> 120 ASKU 1 x 6A (CG)=> 180 ASKU 4 x 1,5A CG-S=> 60 ASKU 2 x 3A CG-S=> 250 ASKU 1 x 6A CG-S=> 250 ASOU CG-S // S*=> 250 ASU S*=> 250 A	$\begin{array}{l} \begin{array}{l} \begin{array}{l} \mbox{def} \mbox{inrush current per circuit:} \\ \mbox{CG} & => 120 \mbox{ A} \\ \mbox{CG} & => 180 \mbox{ A} \\ \mbox{CG-S} & => 60 \mbox{ A} \\ \mbox{CG-S} & => 250 \mbox{ A} \\ \mbox{CG-S} & => 250 \mbox{ A} \\ \mbox{S}^{+} & => 250 \mbox{ A} \end{array} \end{array} $					
Lumi		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 to the DALI LED triver must sign with t	driver is 100% done via DALI-commands accor he DALI logo						

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Table 1

			AC-operation		DC-Operation ( Current measured at driver`s default DC level of 15% )			
Values for load range			AC-operation @ 230V ( mA )	AC-operation @ 240V ( mA )	186V ( mA )	216V ( mA )	240V ( mA )	260V ( mA )
Minimum Load /mA	Uout= lout= P=	15 V 600 mA 9 W	68	68	19	18	13	13
Mid Load /mA	Uout= lout= P=	34 V 808 mA 27,5 W	144	140	35	31	29	27
Maximum Load /mA	Uout= Iout= P=	39 V 1400 mA 55 W	280	270	58	50	46	43
Short Load			40	40	12	12	12	12
Open Load			45	45	12	12	12	12

Remarks:

This table shows the currents consumption of the driver at three different operating points (Pmax, Pmid, Pmin) for AC and DC operation. In DC operation the output current is reduced to 15% light level according default parameter setting. This level can be changed via T4T.

## OSRAM GmbH