

Requirements for	Version 5								
Manufacturer: LEDVANCE GmbH Parkring 1-5, 85748 Garching, Germany	TECG-type: <u>DR EXTERNAL DALI-F</u>	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 🗹 NO 🗖						
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 🔽 NO 🗖						
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 🚺 NO 🗖						
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 🚺 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	YES 🗆 NO 🗖						
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	YES 🗆 NO 🗖						
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 🔽 NO 🗖						
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 🗹 NO 🗖						
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 📮 NO 🗖						
Fullfilled the standard:	DIN EN 61547	Equipment for general lighting purposes — EMC immunity requirements	YES 🔽 NO 🗖						
Fullfilled the DALI standards:	DIN EN 62386-101 /-102 / -207*	Control gear must have the DALI Logo*	YES 📮 NO 🗖						
Note: VDE 0108 is not a standard for ECG, mark	king is not applicable								
Features:	CEAG-Data:	Explanation:	Manufacturer						
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 🔽 NO 🗆						
Important 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.	Unlocked 🗹 Locked 🗖						
Important for lighting design: If 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)	<u> 100 </u> %						
Note: Important for the planning - I	Max. no. Of luminiares per circuit								
Important 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 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 ⁺ SU S ⁺ $=> 250 A$	sh current per circuit: => 120 A => 180 A => 60 A => 250 A							
Luminaires, which are used for emergency lighting, must be according to the standard DIN EN 60598-2-22									
(particular requirements - Luminaires 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									

			Current consumption with specified tubes/lamps						
Table 1			AC - operation		DC - operation (current measured at driver's default DC level of 100%)				
									Voltage for load range per channel
LED TUBE TS EXTERNAL HE family per channel						•			
LEDTUBE T5 EXT P HE14 549 7,3W 8xx	Uout: lout: Pout:	21 V 350mA 7 3W	84	82	93	80	72	67	
2x LEDTUBE T5 EXT P HE14 549 7,3W 8xx in series	Uout: lout: Pout:	42 V 350mA 14 6W	150	144	183	158	136	131	
LEDTUBE T5 EXT P HE21 849 10,5W 8xx	Uout: lout: Pout:	21 V 500mA 10,5W	112	108	133	115	103	95	
2x LEDTUBE T5 EXT P HE21 849 10,5W 8xx	Uout: lout: Pout:	42 V 500mA 21W	209	202	258	220	198	182	
LEDTUBE T5 EXT P HE28 1149 16W 8xx	Uout: lout: Pout:	41 V 400mA 16W	165	158	201	173	156	142	
LEDTUBE T5 EXT P HE35 1449 18W 8xx	Uout: lout: Pout:	41 V 450mA 18W	188	181	227	196	185	164	
LED TUBE T5 EXTERNAL HO family	Driver o per chai	utput nnel							
LEDTUBE T5 EXT P HO24 549 10,5W 8xx	Uout: lout: Pout:	21 V 500mA 10,5W	112	108	133	115	103	95	
2x LEDTUBE T5 EXT P HO24 549 10,5W 8xx in series	Uout: lout: Pout:	42 V 500mA 21W	209	202	258	220	198	182	
LEDTUBE T5 EXT P HO39 849 17W 8xx	Uout: lout: Pout:	43 V 400mA 17W	172	165	200	172	155	149	
LEDTUBE T5 EXT P HO49 1449 26W 8xx	Uout: lout: Pout:	42 V 600mA 26W	254	242	307	263	236	219	
LEDTUBE T5 EXT P HO54 1149 26W 8xx	Uout: lout: Pout:	42 V 600mA 26W	254	242	307	263	236	219	
LED TUBE T8 EXTERNAL family per channel									
LEDTUBE T8 EXT P 600 7,3W 8xx	Uout: lout: Pout:	21 V 350mA 7,3W	84	82	93	80	72	67	
2x LEDTUBE T8 EXT P 600 7,3W 8xx in series	Uout: lout: Pout:	42 V 350mA 14,6W	150	144	183	158	136	131	
LEDTUBE T8 EXT P 1200 15W 8xx	Uout: lout: Pout:	42 V 350mA 15W	158	152	191	164	148	136	
LEDTUBE T8 EXT P 1500 23W 8xx	Uout: lout: Pout:	42 V 550mA 23W	228	219	280	239	215	198	
				Current consu	mption with de	fective or discor	nected lamps		
No lamp / defective lamp			21	22	7	6	6	6	