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Manufacturer: nventronics GmbH Berliner Allee 65 36153 Augsburg, Germany	ECG-type: OT 110_170-240_0A7 4DIM NFC Date: 04.12.2023	Manufacturer information Complies: YES/NO				
Features:	CEAG data:	Compiles. 123/NC				
	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 witch-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 tandard:	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			
lote: 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 : ALI command 145 Query Control Gear) ALI 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			
nportant for lighting design: DALI-Light level is locked, the value f 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)	75%			
Note: Important for the planning -						
nportant for the contact load SKU: lax. inrush current each onverter/luminaire in C-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	CG) => 120 A CG: => 180 A CG: S => 60 A GG: S => 250 A GG: S => 250 A The declaration of the inrush current of the luminaire is important, to calculate the max. possible 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.

04.Dec.2023

Manufacturer:	Product:		
Inventronics GmbH			
Berliner Allee 65	OT 110_170-240_0A7 4DIM NFC G3 CE	Inventronics GmbH	
86153 Augsburg, Germany	(AM41134)	inventionits dilibri	
www.inventronicsglobal.com			

Table 1

			AC-operation			DC-Operation (For DALI Devices @ default DC Dim level e.g. 15%)			
Values for load range		230VAC/50Hz Itrms_in (mA)	240VAC/50Hz Itrms_in (mA)	264VAC/50Hz Itrms_in (mA)	186VDC Idc_in (mA)	216VDC Idc_in (mA)	240VDC Idc_in (mA)	260VDC Idc_in (mA)	
Min. Load /mA	Uout= lout=	80 V 150 mA	107.0	106.0	101.5	93.1	83.0	76.3	71.9
			PF: 0.614	PF: 0.593	PF: 0.56	PF: NA	PF: NA	PF: NA	PF: NA
Mid. Load /mA	Uout= lout=	157 V 350 mA	261.0	252.0	234.4	314.0	271.0	244.1	225.2
			PF: 0.964	PF: 0.958	PF: 0.94	PF: NA	PF: NA	PF: NA	PF: NA
Max. Load /mA	Uout= lout=	157 V 700 mA	513.0	490.0	446.8	481.7	413.0	371.1	342.2
			PF: 0.992	PF:0.991	PF: 0.986	PF: NA	PF: NA	PF: NA	PF: NA
Short/Open Load			67.6	68.3	70.3	52.1	49.0	46.4	44.0
			PF: 0.02	PF: 0.02	PF: 0.02	PF: NA	PF: NA	PF: NA	PF: NA

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!