

	T				
Manufacturer:	-	Type / description:	Manufacturer		
nventronics GmbH 3erliner Allee 65 36153 Augsburg, Germany	ECG-type: OT 20_170-240_1A0 4DIM NFC 0 Date: 04.12.2023	information Complies: YES/NO			
Features:	CEAG data:				
Control gear suitable for a DC voltage range:	186V - 260V DC (for Lead-Battery)	Explanation: 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 1 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, mark	king is not applicable				
Features:	CEAG-Data:	Explanation:	Manufacturer information:		
mportant for function test! According to IEC 62386 Part 102 Support of : OALI command 145 Query Control Gear) OALI 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)	75%		
Note: Important for the planning -	Max. no. Of luminiares per circuit				
nportant for the contact load SKU: flax. 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	21A/178us per pcs. The declaration of the inrush current of the luminaire is important, to calculate the ma 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

Philip Que 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 20/170-240/1A0 4DIM NFC G3 CE	Inventronics GmbH
86153 Augsburg, Germany	(AM41127)	inventionics dribh
www.inventronicsglobal.com		

Table 1

				AC-operation			DC-O (For DALI Devices @ def	peration ault DC Dim level e.g. 1	15%)
Values for load range		230VAC/50Hz	240VAC/50Hz	264VAC/50Hz	186VDC	216VDC	240VDC	260VDC	
		Itrms_in (mA)	Itrms_in (mA)	Itrms_in (mA)	Idc_in (mA)	Idc_in (mA)	Idc_in (mA)	Idc_in (mA)	
1	Uout=	10 V							
·	lout=	150 mA	27.0	29.5	30.0	16.9	16.1	15.8	17.1
			PF: 0.444	PF: 0.395	PF: 0.346	PF: NA	PF: NA	PF: NA	PF: NA
	Uout=	29 V							
Mid. Load /mA	lout=	500mA	53.0	55.7	53.1	73.0	57.7	51.8	49.1
			PF: 0.92	PF: 0.921	PF: 0.88	PF: NA	PF: NA	PF: NA	PF: NA
	Uout=	29 V							
Max. Load /mA	lout=	1000 mA	103.4	99.3	96.4	162.0	96.9	89.2	75.7
			PF: 0.976	PF: 0.966	PF: 0.905	PF: NA	PF: NA	PF: NA	PF: NA
Short/Open Load									
4 - F 30			19.5	20.1	21.7	9.8	10.7	11.9	13.7
			PF: 0.042	PF: 0.04	PF: 0.037	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!