

Manufacturer:	Type / description:							
Inventronics GmbH Parkring 31-33 85748 Garching - Germany	ECG-type: OT WI 50/220240/1A4 NFC BL I Date: 28.02.2024	Manufacturer information Complies: YES/NO						
Features:	CEAG data:	·						
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 <sup>+</sup> 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 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		Manufacturer					
Features:	CEAG-Data:	Explanation:	information:					
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					
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.	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 -	Max. no. Of luminiares per circuit  Max. permitted inrush current per circuit:							
mportant for the contact load SKU: Max. inrush current each	SKU 2 x 3A (CG) => 120 A SKU 1 x 6A (CG) => 180 A SKU 4 x 1,5A CG-S => 60 A							
converter/luminaire in AC-operation:								
Lumir		g, must be according to the standard DIN EN 60598-2-22 uminaires for emergency lighting)						

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.

06.March.2021

## Notes

- 1. Control of DALI-SV-Module to the DALI driver is 100% done via DALI-commands according to IEC 62386-101/-102, so the DALI driver must sign with the DALI logo.
- 2. For calculation the inrush current of the monitoring module must be considered!
- 3. Not to be used in high risk areas, special release required
- 4. The light input level is locked in DC-operation. Factory setting is 15% of the maximum level. It is possible to change the behavior of the controlgear in DC-operation.
- 5. Only 1 DALI- Driver DT8 (1 address/2 channels) or DT6 (1 address/1 channel) to wire with one Dali-SV-Module only 1 address possible with one Dali-SV-Module.

Manufacturer:	Product:	
Inventronics GmbH Parkring 31-33 85748 Garching - Germany	OT WI 50/220240/1A0 NFC BL L EAN: 4062172311243	Inventronics <b>GmbH</b>

## Table 1

			AC-operation			DC-Operation (For DALI Devices @ default DC Dim level e.g. 15%)				
Values for load range			189VAC/50Hz Itrms in ( mA )	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=	15.22 V 402.80 mA	54.40	52.09	52.46	53.51	16.04	13.91	12.76	12.79
	P=	6.13 W	PF: 0.88	PF: 0.75	PF: 0.73	PF: 0.66	PF: NA	PF: NA	PF: NA	PF: NA
Mid. Load /mA	Uout= lout=	27.09 V 403.58 mA	78.79	70.07	69.20	67.88	22.37	19.41	17.79	16.79
	P=	10.94 W	PF: 0.96	PF: 0.89	PF: 0.88	PF: 0.82	PF: NA	PF: NA	PF: NA	PF: NA
Max. Load /mA	Uout= lout=	38.87 V 404.25 mA	106.88	90.83	88.59	84.41	29.33	25.38	23.19	21.90
	P=	15.72 W	PF: 0.98	PF: 0.95	PF: 0.94	PF: 0.91	PF: NA	PF: NA	PF: NA	PF: NA
Short/Open Load			21.68	25.58	26.47	28.66	0.01	0.94	0.89	0.85
			PF: 0.01	PF: 0.05	PF: 0.04	PF: 0.04	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!