

Manufacturer:	Т	ype / description:		
Inventronics GmbH Parkring 31-33 85748 Garching	ECG-type: OTi DALI 90/220240/700 D LT2 Date: 07.05.2024	Manufacturer information Complies: YES/NO		
Germany 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 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: 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 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, ma	rking is not applicable		Manufashunan	
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 -	Max. no. Of luminiares per circuit Max. permitted inrush current per circuit:			
mportant for the contact load SKU: Max. inrush current each converter/luminaire in AC-operation:	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	25A/280us per pcs. The declaration of the inrush current of the luminaire is important, to calcula possible luminaires on one circuit, to consider the max. contact load limitation		
Lumin		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.

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 oniy 1 address possible with one Dali-SV-Module.

Manufacturer:	Product:	
Inventronics GmbH		
Parkring 31-33	OTi DALI 90_220-240_700 D LT2 L	Inventronics GmbH
85748 Garching		

Table 1

				AC-or	peration				Operation fault DC Dim level e.g. 1	.5%)
Values for load ran	ge		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=	54.11 V 251.58 mA	98.07	89.55	88.64	86.17	20.13	17.14	15.57	14.52
	P=	13.62 W	PF: 0.88	PF: 0.79	PF: 0.77	PF: 0.72	PF: NA	PF: NA	PF: NA	PF: NA
Mid. Load /mA	Uout= Iout=	91.60 V 477.21 mA	201.32	221.54	213.41	197.69	47.95	41.12	36.93	34.30
	P=	43.71 W	PF: 0.96	PF: 0.95	PF: 0.95	PF: 0.93	PF: NA	PF: NA	PF: NA	PF: NA
Max. Load /mA	Uout= Iout=	128.87 V 702.29 mA	366.80	442.36	423.29	385.19	89.36	76.54	68.94	63.97
	P=	90.51 W	PF: 0.98	PF: 0.98	PF: 0.98	PF: 0.97	PF: NA	PF: NA	PF: NA	PF: NA
Short/Open Load			134.40	117.43	114.83	104.12	-0.53	0.65	1.47	1.40
			PF: 0.93	PF: 0.87	PF: 0.85	PF: 0.75	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!