

| Manufacturer: Inventronics GmbH | Type / description: | | | | | | | |
|--|---|--|---------------------------|--|--|--|--|--|
| Parkring 31-33 85748 Garching - Germany | ECG-type: OT WI 35/220240/1A0 NFC BL I Date: 28.02.2024 | 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 | | | | | |
| 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 | | | | | |
| -ullfilled 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 | | Manufacturer | | | | | |
| 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 | | | | | |
| 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) | 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 | 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 | | | | | | | |
| converter/numinalite in AC-operation: | The declaration of the inrush current of the luminaire is important, to calculate the map ossible luminaires on one circuit, to consider the max. contact load limitation of the circuit, so use the max of the circuit, to consider the max of the circuit, to consider the max of the circuit, so use the max of the circuit is important, to calculate the max of the circuit is important, to calculate the max of the circuit is important, to calculate the max of the circuit is important, to calculate the max of the circuit is important, to calculate the max of the circuit is important, to calculate the max of the circuit is important, to calculate the max of the circuit is important, to calculate the max of the circuit is important, to calculate the max of the circuit is important, to calculate the max of the circuit is important, to calculate the max of the circuit is important, to calculate the max of the circuit is important, to calculate the max of the circuit is important, to calculate the max of the circuit is important, to calculate the max of the circuit is important, to calculate the max of the circuit is important. | | | | | | | |
| Lumir | naires, which are used for emergency lighting | 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 | OT WI 35/220240/1A0 NFC BL L EAN: 4062172311205 | Inventronics GmbH |
| 85748 Garching - Germany | | |
| | | |

Table 1

| | | | AC-operation | | | DC-Operation (For DALI Devices @ default DC Dim level e.g. 15%) | | | | |
|---------------------|----------------|----------------------|--------------------------------|--------------------------------|--------------------------------|--|-------------------------|-------------------------|-------------------------|-------------------------|
| 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= | 15.09 V 198.77 mA | 34.36 | 36.19 | 36.46 | 37.23 | 11.19 | 11.85 | 10.70 | 8.21 |
| | P= | 3.00 W | PF: 0.76 | PF: 0.59 | PF: 0.57 | PF: 0.53 | PF: NA | PF: NA | PF: NA | PF: NA |
| Mid. Load /mA | Uout= lout= | 25.23 V 198.42 mA | 44.17 | 42.90 | 42.92 | 43.95 | 14.50 | 12.59 | 12.24 | 12.19 |
| | P= | 5.01 W | PF: 0.86 | PF: 0.75 | PF: 0.72 | PF: 0.66 | PF: NA | PF: NA | PF: NA | PF: NA |
| Max. Load /mA | Uout= lout= | 35.35 V 197.54 mA | 55.33 | 51.09 | 50.66 | 50.18 | 18.32 | 15.90 | 14.58 | 13.55 |
| | P= | 6.99 W | PF: 0.92 | PF: 0.83 | PF: 0.81 | PF: 0.76 | PF: NA | PF: NA | PF: NA | PF: NA |
| Short/Open Load | | | 16.37 | 18.84 | 19.35 | 20.65 | 0.83 | 0.99 | 0.94 | 0.89 |
| | | | PF: 0.01 | PF: 0.06 | PF: 0.06 | PF: 0.06 | 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!