

	Requirements for electronic control gears for fluorescent		Version 13
Manufacturer: ECG-type: OTi FIT 35/220-240/700 CS L G2 (4052899522534) Marcel-Breuer-Str. 6 Date: 05.02.2021 D-80807 München Date: 05.02.2021		Manufacturer information Complies: YES/NC	
Specifications:	CEAG data:	Explanation:	
Control gear suitable for 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
tarting 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
nly 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
nly for flourescent lamps: Control gear complies with the tandard:	DIN EN 61347-2-3 (incl. Attachment J)	Particular requirements for AC and/or DC supplied electronic control gear for fluorescent lamps	Not Relevant
nly for LED: Control gear complies with the standard:	DIN EN 62384	AC or DC supplied electronic control gear for LED modules - Performance requirements	YES
only for LED: Control gear complies with the standard:	DIN EN 61347-2-13	Particular requirements for AC or DC supplied electronic control gear for LED modules	YES
Control gear complies with he standard:	DIN EN 55015 (Measured in AC and DC)	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment	YES
Control gear complies with he standard:	DIN EN 61000-3-2	Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current ≤ 16 A per phase)	YES
Control gear complies with he standard:	DIN EN 61000-3-2, Pkt. 7.3 a.)	see *Important note!	YES
Control gear complies with he standard:	DIN EN 61547	Equipment for general lighting purposes - EMC immunity requirements	YES
lote: The labeling "according to VDE 0108" is	not meaningful, because this is not a control gear standard		
specifications:	CEAG data:	Explanation:	Manufacturer information:
mportant for functiontest: 'oltage-dependent nput current of the control gear ncl. LED n DC and AC operation:	V-CG-S2: >9,4 mA or >12,7 mA = OK V-CG-S: >16 mA or >47 mA = OK V-CG-SE: >16 mA or >47 mA = OK V-CG-SUW: >47 mA = OK V-CG-SUW: >47 mA = OK CG-K: >16 mA or >47 mA = OK	Minimum current of the LED driver with LED module to GOOD detection via the monitoring module. In the voltage range of 189 - 264V AC on AT-S+ or 186 - 260V DC on ZB-S/LP-STAR the input current must be higher than the specified current values. see *Important note!	see table
mportant for functiontest: /oltage-dependent lo-load current of the control gear without or defect LED module) n DC and AC - operation*:	V-CG-S2: <5,8 mA or <7,9 mA = n.OK V-CG-S: <10 mA or <28 mA = n.OK V-CG-SE: <10 mA or <28 mA = n.OK V-CG-SUW: <28 mA = n.OK V-CG-SUW: <28 mA = n.OK	Maximal current of the LED driver with LED module for BAD detection via the monitoring module. In the voltage range of 189 - 264V AC on AT-S+ or 186 - 260V DC on ZB-S/LP-STAR the input current must be lower than the specified current values. see *Important note!	see table
mportant for the power consumption f addressable ballast:	V-CG-S2 = 30 A V-CG-S = 30 A V-CG-SE = 30 A V-CG-SUW = 80 A CG-K = 30 A	The max. inrush current of each monitoring module has to be considered!	25A/200us
Note: Important for the planning -	Max. no. Of luminiares per circuit		
nportant for the contact load SKU: lax. inrush current of each luminaire n AC 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	The declaration of the inrush current of the luminaire above is max. possible luminaires on one circuit, to consider the max. o circuit.	
	Luminaires for emergency lightin	g must comply with DIN EN 60598-2-22	
test, the current consu Note EOL (End of Life) detec	ry systems (ZB-S / LP-STAR) with active preli umption must be sinusoidal, t.m. all control g See DIN EN 6 tion (T5 > 14Watt): The AC preliminary time i	Juninaires for emergency lighting) <u>ortant note!</u> iminary time for AC about 300 seconds (EOL detection of T jears (<25W as well) must have an active PFC (Power Facto 1000-3-2, Pkt. 7.3 a.) is valid for the complete system (e.g. ZB-S), not possible for valid of the control act for LED modules within the apolitical li	r Correction)!
The modules of the V-CG-5 series		v side of the control gear for LED modules within the specified lin	
LEDs (low-impedance) on the seco		failure.	20. Mrz 20