

Requirements for electronic non-dimmable control gears for fluorescent lamps and LED			Version 14 Manufacturer information Complies: YES/NO
Anufacturer: Type / description: SRAM GmbH arcel-Breuer-Str. 6 ECG-type: OT FIT 120/220-240/750 D LT2 L (4052899497900) 80807 München Date: 01.02.2023			
Specifications:	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	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 the 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 the standard:	DIN EN 61000-3-2, Pkt. 7.3 a.)	see *Important note!	Yes
Control gear complies with the standard:	DIN EN 61547	Equipment for general lighting purposes - EMC immunity requirements	Yes
Note: The labeling "according to VDE 0108" is no	t meaningful, because this is not a control gear standard!		
Specifications:	CEAG data:	Explanation:	Manufacturer information:
Important for functiontest: Voltage-dependent Input current of the control gear incl. LED in 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 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!	AC: see Table (AT-S+) DC: see Table (ZB-S/LP-STAR)
Important for functiontest: Voltage-dependent No-load current of the control gear (without or defect LED module)	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	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	AC: see Table (AT-S+)
n DC and AC - operation*:	CG-K: <10 mA or <28 mA = n.OK	lower than the specified current values. see *Important note!	DC: see Table (ZB-S/LP-STAR)
Important for the power consumption of addressable ballast:	V-CG-S2 = 30 A V-CG-S = 30 A V-CG-SE = 30 A V-CG-SUW = 80 A	The max. inrush current of each monitoring module has to be considered!	AC: see Table (AT-S+)
	CG-K = 30 A		DC: see Table
Note: Important for the planning - N	Aax. no. Of luminiares per circuit Max. permitted inrush current per circuit: SKU 2 x 3A (CG) => 120 A SKU 1 x 6A (CG) => 180 A	13.6A/216 us per pcs.	
Max. inrush current of each luminaire in AC operation	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 is important, to calculate the max possible luminaires on one circuit, to consider the max. contact load limitation of the circuit	
	Luminaires for emergency lighting	ng must comply with DIN EN 60598-2-22	
the current consum Note EOL (End of Life) detec The modules of the V-CG-S series mo	*Imp systems (ZB-S / LP-STAR) with active prelim ption must be sinusoidal, t.m. all control gea See DIN EN 6 tion (T5 > 14Watt): The AC preliminary time initor the current consumption on the primary si	uminaires for emergency lighting) ortant note! inary time for AC about 300 seconds (EOL detection of T5 la ars (<25W as well) must have an active PFC (Power Factor Co 1000-3-2, Pkt. 7.3 a.) is valid for the complete system (e.g. ZB-S), not possible for de of the control gear for LED modules within the specified limits, urrent consumption on the primary side, and in such cases canno	individual circuits. Failures of individual LED
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