

Title (en)

Circuit for controlling the light intensity and the operating mode of discharge lamps

Title (de)

Schaltungsanordnungen zur Steuerung der Helligkeit und des Betriebsverhaltens von Gasentladungslampen

Title (fr)

Circuit pour commander l'intensité lumineuse et le mode de fonctionnement de lampes à décharge

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Application

EP 95114759 A 19911209

Priority

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Abstract (en)

[origin: EP0490330A1] The invention relates in general to an electronic ballast (EVG) for fluorescent lamps. In particular, it relates to circuit arrangements inside the electronic ballast for separately measuring lamp current and heater coil current of lamp. Such an electronic ballast comprises an AC voltage generator (30, WR), whose frequency can be controlled, a series resonant circuit (L2, C17), which is connected to the output of the AC voltage generator (30) and to whose capacitor (C17) the gas discharge lamp is connected in parallel, and a current measuring element (R32) responding to the lamp current (IL1), at least one heating circuit of the heater coils of the gas discharge lamp being connected independently of the series resonant circuit (L2, C17) to the AC voltage generator (30), and a further current measuring element (R10) connected to said heating circuit serving to measure the heating current (JW). <IMAGE>

Abstract (de)

Ausgangs-Schaltungsanordnung für ein elektronisches Vorschaltgerät, mit mindestens einem Paar von Serienresonanzkreisen (L3, C18; L2, C17), die den Ausgang eines Wechselspannungsgenerators (30) mit je einem Paar von Gasentladungslampen (LA1, LA2) verbinden, mindestens einem Paar von Zündkondensatoren (C17, C18), von denen je einer eines Paares parallel zu je einer eines Paares von GE-Lampen (LA1, LA2), geschaltet ist, und mit mindestens einem induktiven Symmetrieelement (TR1), das von den Lampenströmen (IL1, IL2) je eines Paares von GE-Lampen (LA1, LA2) gegenseitig magnetisierbar ist. <IMAGE>

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