

628.932.3 : 621.314

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() .

0.1-0.2 .

0.5 2 .

0,15

150 55 .

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[2]

() 1 20 .

[1].

[3]

$$E = \frac{d\Phi}{dS}, \quad (1)$$

400 760 .

E - ; [3]

Φ - ;

S - ,

400 800 .

3) ;

4) ;

5) ;

6) ;

[5]

(, , . .).

(,),

5-50 , 1000 ,

», . . . 0,5-2 .

38518 . 4 15.05.2001.

- 1 ;

3)

4)

5)

6)

[5]

1.

2.

3.

4.

5.

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1)

2)

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THE CONTROL AUTOMATION IN LUMINANCE APPARATUSES (WHAT SHOULD BE ALLSTROM RELAY)

O. Lyachovich

The appreciable reserves of saving of electricity, of material and labor expenditures are comprised in the rationalization and the amendments of luminance apparatuses. The efficiency of the employment of luminance apparatuses currently else insufficient on account of the low quality of potential in luminance chain of and the absence of the safe apparatuses of automatic control by luminance apparatuses. In manual control the connection of luminance apparatuses frequently is generated untimely, as a result what re consumed the big quantity of electricity and lamps. These loss can be avoided, automating control by luminance apparatuses by means of apparatuses allowing to make a contact and to cut luminance apparatuses depending on the time of twenty-four hours, illuminances of or other factors. Known controls as to the time of twenty-four hours do not support the necessary truth of control and need reprogramming for the various times of year. On today's day (anyhow in internet) no data on photo relay with such characteristics. Conventionally in characteristics photo relay is indicated the illuminances of the connection of user sometimes paucity generally incomprehensible 5-50 lx, sometimes till 1000 lx that contradicts self name « twilight switch », and etc. Was said to above can be read printed text in 0.5-2 lx. From what follows that in characteristics photo relay is necessary to regulate not only on threshold, and that more basilar, off threshold (it is advisable below on threshold), in addition photo relay must support:

- 1) *The user's connection in the illuminances decline in area photo detector opening below adjusted on threshold – 5-10lx ;*
- 2) *The user's break in the illuminances enhancement in area photo detector opening above of adjusted off threshold – 1-3lx ;*
- 3) *The independence of on thresholds and breaks from line voltage ;*
- 4) *The reconstruction of state photo relay. In fitting light level after temporary de-energizing ;*
- 5) *The reconstruction of state photo relay after the temporary changeover of illuminances in area photo detector opening ;*
- 6) *Insensibility to low-level fluctuation illuminances in the area of adjusted on thresholds and breaks.*

And such relay exist. By me is developed and received a patent in Ukraine threshold element with adjusted hysteresis, on baseline which is manufactured the photo relay of kind FRL which fits above-mentioned requests.

Key words: Control system, parameter, emitting diode, illuminant, photo detector, power.