

LED SEMICONDUCTOR INFORMATION DEVICE СПИУ4А-2К, 2G, 1L

СПИУ4А-2К 2G 1L - Led information of the semiconductor device

Led semiconductor information device **СПИУ4А-2К2Ж1Л** further light is used to replace incandescent light signal Board type is FCM. The lighting made the red yellow green glow. Structurally, the circuit Board indication've put together of the led emitters mounted in a plastic reflector and controller Board is connected by two wires. To the circuit Board of the controller soldered three wires in insulation that connect to the outer terminals of the blocks TSM.

On the PCB of the controller is the circuit of electronic ballast. The circuit controller provides a test mode Board display and is protected against reverse polarity of the supply voltage. Electronic ballasts are used instead of resistor to reduce the voltage from 220 V to a voltage ensuring the normal operation of the LEDs. This provides a tenfold reduction in power consumption from 40-80 mA at highlights of different colors up to 5 mA.

The use of this class of led emitters is focused on **the replacement of incandescent bulbs used in block shields of nuclear power plants on power on control panels and dashboards do not require a pulsing relay in particular in blocks of TSM and provides a test mode Scoreboard when connecting bus SPL. Compared to the traditionally used incandescent bulbs with led backlight have longer life span 50,000 hours versus 3,000 for incandescent lamps and low temperature heating.**

Operating temperature range from - 10° to + 55° C.

Led semiconductor information devices retain the performance when changing the supply voltage in the range from minus 15% to plus 10% from the nominal value.

Can be used in alarm circuits do not require the pulsing relay.

The use of led scoreboard with electronic ballasts allows

- increase the service life of lighting fittings control panels
- to reduce the consumed means of displaying information, the power from batteries or rectifier unit in order
- get rid of the elements with high heat
- to reduce the complexity of the service
- remove the problem of shortage of filament lamps
- to provide uniform illumination of the working surface of a Board
- to increase the reliability
- provide sufficient brightness screen mnemonic symbols
- is to provide **complete interchangeability with the units of TSM incandescent lamps.**

It is possible to manufacture and supply of lighting **СПИУ4А-2К2Ж1Л for circuit 110 V DC.**

The connection is made in accordance with the marking on the PCB.

Wiring diagram of the circuits of control panels alarm is completely analogous to the connection **of the TSM units with incandescent lamps and requires no changes.**

Table of parameters and technical characteristics of the manufacture of **led semiconductor devices, information SPI**

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