

# LED SEMICONDUCTOR INFORMATION DEVICE СПИУ5А-8К, 8Ж, 4L

СПИУ5А-8К 8Ж 4L - Led information of the semiconductor device

Led semiconductor information device **СПИУ5А-8К 8Ж 4L** then the backlight is made of red yellow and green colors glow. Structurally, the circuit Board indication've put together of the led emitters and light-diffusing reflector is installed and the 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 of the TSB.

On the PCB of the controller is the circuit which implements the functions of the circuit Board cell signaling. When enabled, produces a current pulse with a magnitude of at least 50 mA for the relay pulsed signaling type RESRT. Electronic ballast used to reduce power consumption, provides illumination led emitters. The circuit controller provides a test mode Board display and is protected against reverse polarity of the supply voltage.

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 energy facilities in control panels and dashboards do not require the inclusion of information relay.

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. Illumination is still functioning when you change supply voltage range from -15% to + 10% from the nominal value. Depending on the wishes of the customer is possible to supply products with following equipment**

- payment display with the controller Board
- payment and a display controller installed inside the unit TSB.

The use of led scoreboard with electronic ballasts and electronic single vibrators for start-up relay type RESRT allows

- increase the service life of lighting fittings control panels
- to reduce the consumed means of displaying information, the power from the battery or rectifier unit in order
- remove the problem of shortage of filament lamps
- to provide uniform illumination of the working surface of a Board
- get rid of the elements with high heat

to increase the reliability

- provide sufficient brightness of screen characters
- to increase the reliability of the activation current relay type RESRT  
is to provide the ability to connect to multiple RESRT
- increase the maximum number of input signals, working on one impulse the relay at least in 2 times

from 30 to 60 - 70

illumination for better durability and increased time between failures due to design changes

illumination differ in the number of installed led emitters

8K - 8 red LEDs

8Ж - 8 yellow LEDs

4L - 4 green LEDs.

It is possible to manufacture and supply of lighting for power circuits 110V DC.

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

Three wire tyre + 220 -220 + SPL output unit TSB through the hole in the rear wall.

Wiring diagram of the circuits of the boards of upravlyayushchiy is completely analogous to the connection blocks of the TSB 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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