

# LED SEMICONDUCTOR INFORMATION DEVICE СПИУ11А-8К, 8Ж, 4Л

СПИУ11А-8К 8Ж 4Л - Led information of the semiconductor device

Led semiconductor information device **СПИУ11А-8К 8Ж 4Л** further light is used to replace incandescent bulbs in the scoreboard light signal type TSS-66M and 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.

On the PCB of the controller is the circuit which implements the function diagram cell Board alarm unit TSS-66M. The circuit controller provides the mode of the health check Board display when applying a positive potential on bus bulb check SPL. When the contact signal on CSR on the object, the controller generates the current pulse value is not less than 70 mA with a duration of 0.5-1.2 seconds for the relay pulsed signaling type RESRT. Electronic ballast used to reduce the power consumption provides the illumination of the led emitters and the control circuit stops the signal from flashing emitters and transfer them to a smooth glow when applied to the tire removal flashing ShSM positive potential from the external button eat flashing CM.

**The backlight has a built-in generator flashing and does not require connection to the bus flashing CMM.**

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 in circuits with relay type RESRT.

Compared to the traditionally used incandescent bulbs with **led backlight have longer life span 50,000 hours vs 2000 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 -15% to + 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 and electronic single vibrators for start-up relay type RESRT allows

- to improve the aesthetic and ergonomic qualities of the light display
- 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

to increase the reliability of the activation current relay type FIG RTD

- increase the maximum number of input signals, working on one impulse the relay at least in 2 times from 30 to 60 - 70

- remove the problem of shortage of filament lamps
  - to provide uniform illumination of the working surface of a Board
- to increase the reliability  
is to provide the ability to connect to multiple RESRT.

Table of compliance of the conclusions of the controller Board to the contacts on the connector RP 10-11

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 TSS units with incandescent lamps and requires no changes.

PL - bus bulb check

CSR - plus power from the object

-U - negative supply

RICE - exit to RESRT

KSM - eat flashing.

The plastic reflector is mounted in a frame unit according to the TSB figure

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

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