

# LED SEMICONDUCTOR INFORMATION DEVICE СПИУ9А-8К, 8Ж, 4L or СПИУ9Б-8К, 8Ж, 4L

СПИУ9АБ-8К 8Ж 4L - Led information of the semiconductor device

Led semiconductor information device **СПИУ9А-8К 8Ж 4L or СПИУ9Б-8К 8Ж 4L** then the backlight is designed to replace the incandescent bulbs in the scoreboard light signal type TSS-66 and is made of 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 in the field, the controller produces a current pulse with a magnitude of at least 50 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 provides a disable signal flashing CMM from the source and transfer them to a smooth glow when applied to the tire removal flashing ShSM positive potential from the external button eat flashing CM. Arguably the performance of the backlight with automatic removal flashing through the period of time 8-12 seconds, or specified by the customer. The current consumption of the controller of the CMM is reduced to 1.5-2.0 mA for the backlight this allows not to overload the generator flashing when the GM is constantly connected to the controllers. For example 500 highlights will consume from the generator flashing current is not more than 1 And. Lighting it is recommended to use in conjunction with electronic for example a thyristor generator.

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 50,000 hours vs. 2,000 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 -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
- get rid of the elements with high heat
- to reduce the complexity of the service
- 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
- to expand in the future, or ergonomic and functional possibilities of the control panels in the power industry
- 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 RIS RTD.

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 blocks **of TSS with incandescent lamps and requires no changes.**

**SPL - bus bulb check**

**+U - plus power from the object**

**-U - negative supply**

**BL - bus flashing**

**RTD - output RESRT**

**CM - eat flashing.**

Wiring SPI-9

The interpretation of symbols in the designation of SPIO-9

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

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