



ANNUNCIATOR MODULE

LSB1S RGB MANUAL

USE

Annunciator modules LSB1S RGB is device for registration of events, intended to keep attention of the engineering staff. In case of out of range of the technological process annunciator module activate blinking lightings at 1 window and switch on external audible device.



FUNCTIONAL MODES

The Annunciator modules LSB1S RGB have basic functional modes as below.

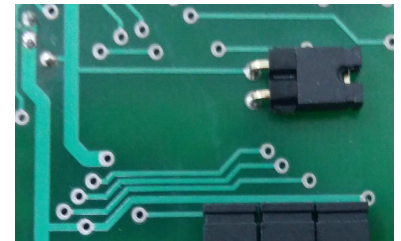
- In case of Input signal is ON (Off) – The window blinking with chosen color.
- The Audible Output gets ON
- After acknowledgement the window continuously lighting
- Audible Output gets Off.
- In case of Input signal gets Off – Lighting window stops lighting.

INPUTS AND POLARITY

Annunciator modules LSB1S RGB can be operate with two types Input signals – potential and no potential (Dry contact). The Customer has to define one of those options by order.

For option Potential Input voltage range is 10 – 250 V AC/DC and has to be defining too in the Customer order.

The polarity of the Input signals can be set Jumper as shown on the graphic.



ANNUNCIATOR INPUTS

The inputs of the Annunciator modules LSB1S RGB are galvanic insulated and protected by varistors. The Inputs have Software filtering Algorithm for rejection disturbances. The input hardware components are designed for long term active working under industrial condition and protected by additional treatment with polyester film. The Input settings can be set by Software tool. Accessible settings for all Inputs are:

- Input type - AC/ DC
- Input Polarity – hardware settings
- Input Software filtering Algorithm - 10 mS

The terminal blocks of the Inputs are placed on the back panel. Connection diagram is given on the Sticker.

ANNUNCIATOR ASCNOWLEDGEMENT

The Annunciator modules LSB1S RGB Acknowledgement can be done by Acknowledge Button on the main panel or by Acknowledge Input placed on the back panel.



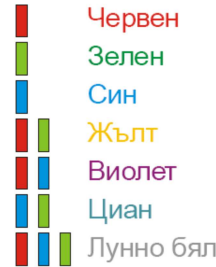
FUNCTIONALITY TEST

Functionality test is simple. Push and hold the Acknowledge button or activate Acknowledge input for more than 5 seconds. The color window will start blink and audible relay will be gets ON. If in the same time Annunciator register Input signals it will be shown after the functionality test.



WINDOW COLOR SETTINGS

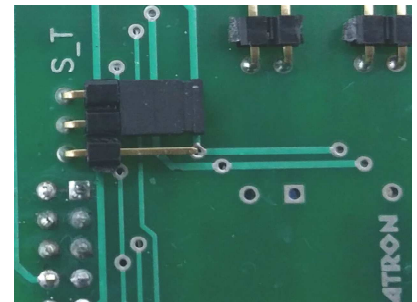
Annunciator LSB1S RGB color settings can be done by hardware jumpers on the pcb. Customer can be set 7 colors according to Color diagram. The lighting of the LED's is corrected by diffusion filter. In the table below is given the colors and jumper positions. To make the color settings have to open annunciator in front of housing case. The whole pcb get out. On the graphic is shown position of jumpers and colors.



“SELF TEST” FUNCTION

Annunciator LSB1 RGB has reliable function for tracking general functionality. The LED indicator on the main panel will lighting continuously in case of normal work.

The second Relay Output can be set as Self-Test relay. Status of the relay is ON. In case of inside damages LED indicator stop lighting and Self-test relay gets Off. On the graphic is shown settings jumper field. S_T (Self-test) is default position. Next positions switch the Relay as second Audible relay.

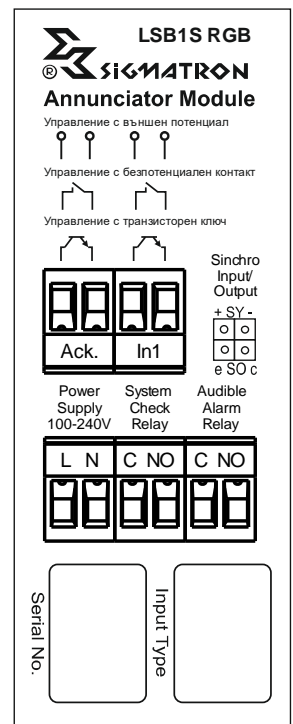
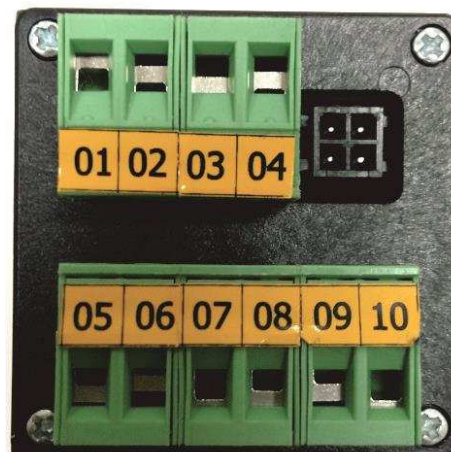


POWER SUPPLY

Annunciator module LSB1S RGB has Pulls Power Supply supplied optionally 24-36 V AC/DC or 85-265 V AC/DC. Both of it are designed on base of **POWER INTEGRATION** components.

The input of the Power Supply is fully ESD protected. The customer has to define the Power supply option range by order.

BACK PANEL AND CONECTION DIAGRAM



SPECIFICATIONS

Operating Inputs	1 - no polarity
Input activation*	Potential signal - 10 -265 V AC/DC – By custom order No potential – inside voltage 24V DC
Receive Input Signal Time	10 – mS for DC Input signals 50- mS for AC Input signals
Identifying Signal	Software Algorithm
ESD Input protection	Varistors
Range of protection	8-20 μ S
Energy absorbing	10 J
Threshold protection	Yes – for potential Inputs mode
Threshold range	0 - 130 V (for Input 220V)
Asc. / Test Input	Potential/No potential Input
Acknowledgement button*	On the main panel
Terminal blocks	2.5 mm ² -
Relay Outputs	2 pcs. - 2A/250 V
Lighting windows	1 pcs. LED RGB
Lighting windows dimensions	22 x 33 mm
Lighting windows colors	7
Power Supply	85-265V AC/DC or 24/36 V AC/DC – By order
Max Power Consumption	4 VA
Working temperature	- 10 ÷ 70 °C
Storage temperature	- 20 ÷ 80 °C
Humidity	0 ÷ 90 % without condense
Device dimensions without terminal blocks	DIN – 48 x 48 x 119 mm
Mounting whole	42x42 mm
Fixing method	Fixing clamps – two pcs.
Case material	PC – glass mixed, no flammable
Protection Class	IP45 Front panel, IP25 back panel, UL90 V0
Long term operation	More than 15 year under operating requirements.

** Type of the Inputs – potential/no potential, Working Input voltage and type of the Power supply have to be define in the Customer order.*