



# RUSIC® 24

LPS safety light unit for supply of 24VDC lights



## Product Description

**RUSIC® 24** monitors and tests all connected emergency luminaires according to VDE 0108 and DIN EN 62034. Depending on the configuration, the necessary tests can be triggered automatically or manually. Up to 160 emergency luminaires can be connected to one RUSIC® 24. The fault messages are stored so that there is no need to keep a manual test log in accordance with E DIN VDE 0108-100 - ATS type PERC (DIN EN 62034). Messages can be forwarded to a central control station via potential-free contacts or a web connection.

## Highlights

- Low voltage system with 230 V 50 Hz supply voltage
- Automatic test system according to DIN EN 62034
- ATS type PERC- Automatic or manual triggering of the necessary tests- Function test/capacity test
- Up to 160 luminaires (RSV24V DC R-LED system luminaires) supply of the luminaires by 24VDC safety extra-low voltage (SK III, SELV)
- Expandable with external circuit and I/O modules
- Mixed operation possible
- In case of malfunction of a luminaire > display of the respective luminaire address and luminaire text on the display
- A malfunction can be forwarded to a central control station via potential-free contact or a web connection
- Monitoring of several units in the network via different IP addresses and monitoring software (RCMS-24)



## Technical Facts

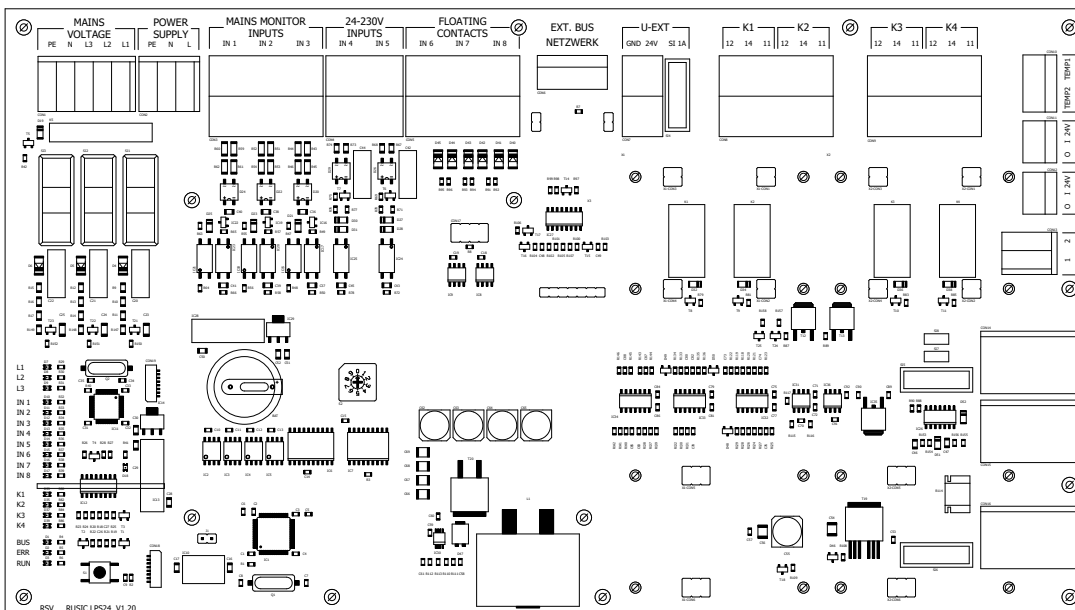
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| Power supply                                | 1Ph~/N/PE, 230VAC±10%, 50/60Hz                             |
| Protection class unit                       | SK I   |
| Protection class luminaires                 | SK III (SELV)  |
| Protection type                             | IP20   |
| Housing material                            | Sheet steel  |
| Painting                                    | RAL 7035   |
| Dimensions in mm (B×H×T)                    | 410×530×145  |
| Weight                                      | ca 32 kg plus Batteries (ca 19,5 kg)                       |
| Mounting                                    | Wall mounting  |
| Cable entry                                 | Plastic flange plate – top or rear mountable               |
| Max. connection cross section of all clamps | 2,5 mm <sup>2</sup>  |
| Noise level                                 | < 40 dB (A) – measured at 1 m distance                     |
| Recommended ambient temperature             | +20°C up to +25°C  |
| Permissible ambient temperature             | -10°C up to +40°C  |
| Battery voltage                             | 24VDC  |
| Battery type                                | RUX 12-28 LS   |
| Battery capacity                            | 28Ah/C10 (10 - 12 years service life according to EUROBAT) |
| Discharge voltage                           | 1,8V/Cell (21,6V)  |
| Charging current limit                      | 2,8A   |

The battery has an aging reserve of 25% according to EN 50171 / 50172. The battery is selected so that even after reaching the maximum supply time, at least 22 VDC is still present at the light.

### Connection Power

- max. 260 Watt plus 25 % aging reserve up to 60 minutes
- max. 260 Watt plus 25 % aging reserve up to 90 minutes
- max. 194 Watt plus 25 % aging reserve up to 120 minutes
- max. 143 Watt plus 25 % aging reserve up to 180 minutes
- max. 65 Watt plus 25 % aging reserve up to 480 minutes

## Layout Overview



### Basic Modules

- Maximum connected load 250 W or 500 W
- Phase monitor (monitoring of phase 1-3 and phase angle)
- 3 digital inputs 230 V (Input 1 – 3)
- 2 digital inputs 24 V – 230 V (Input 4 – 5)
- 3 digital inputs with monitoring (Input 6 – 7)
- 4 relay outputs 250 V / 5 A
- 2 temperature sensor Inputs
- 2 battery symmetry inputs
- 2 fan outputs
- 1 RS485 Bus for external modules
- 1 24 V for external modules
- 4 circuit cards with 2 circuits each (max. 72 W per circuit)

### External Modules

- 8 circuit modules with 4 circuits each (max. 3 A per circuit)
- 32 input modules with 8 digital inputs each
- 8 output modules with 4 relay outputs each 250 V / 5 A
- 8 message panels