

mediBLUE NFC

STREET LIGHTING CONTROL SYSTEM

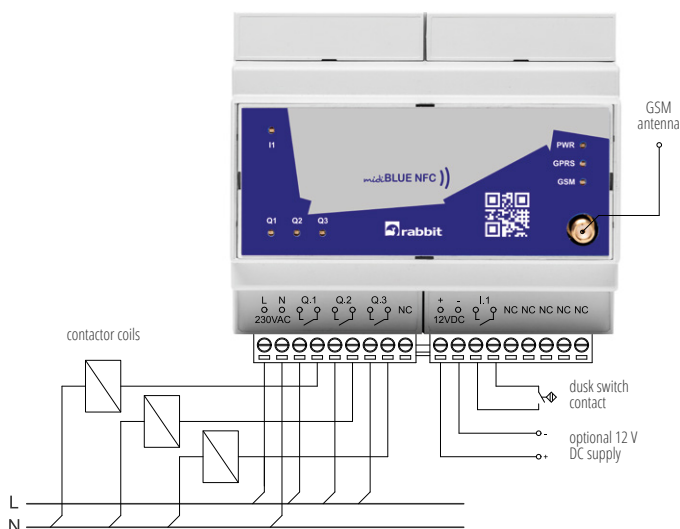
mediBLUE NFC is a modern street lighting controller. It is used to switch lighting on, off and monitor it remotely via a web page as well as by a proximity via a smartphone from the mediBLUE NFC application.

The mediBLUE NFC controller calculates the sunrise and sunset times from the geographical position or retrieves them from an astronomical table. This small device is mounted in a lighting cabinet. In conjunction with the Internet site, it creates a system that allows for remote monitoring and management of street lighting. This type of solution enables real-time data processing for a large number of lighting cabinets. This has a direct impact on improving the quality of lighting, the speed of response in emergency situations and cost reduction.



Controller operation parameters can be changed and programmed via the website or by means of wireless NFC communication. This is done by means of an application that can be downloaded free of charge from the Google Play store. The mediBLUE NFC controller synchronizes time with the Network Time Protocol server, thus switching the lights on very precisely. The time retrieved directly from the atomic clock ensures absolute accuracy and relieves the user from adjusting the clock themselves in the controller. In addition, it ensures that all controllers are switched on at the same time, with one-second accuracy.

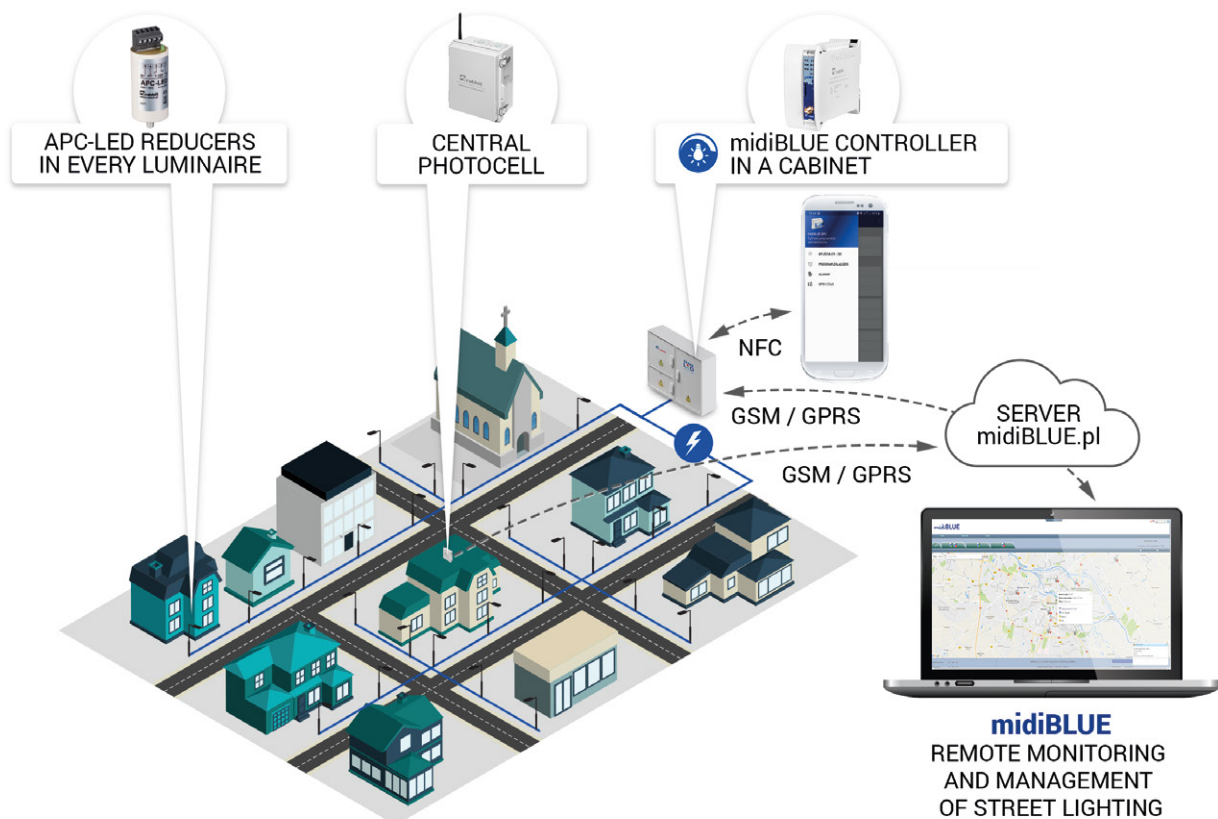
WIRING DIAGRAM



TECHNICAL PARAMETERS

- power supply voltage: 90-264 VAC, 40-63 Hz
- dimensions (W/H/D): 106 x 91 x 62 mm
- device width: 6 modules
- number of outputs: 3
- output current capacity: 5 A/230 V
- number of inputs: 1
- operating temperature: from -30°C to $+85^{\circ}\text{C}$
- protection: IP20
- DIN rail mounting

SYSTEM OPERATION DIAGRAM



FEATURES OF THE DEVICE

- full control and management of the system via a website
- controller programming is performed remotely via a website or by a proximity via a smartphone from the midibLUE NFC application
- time synchronization with the Network Time Protocol server – time retrieved directly from the atomic clock guarantees an absolute accuracy
- communication: GPRS, SMS, NFC
- possibility to create and manage groups of controllers
- possibility to switch the lighting on/off via SMS in an emergency
- user authorization (login, password) and assignment of various permissions
- automatic summer/winter time change
- possibility to program up to four switch-on/off intervals at fixed hours, including astronomical switch-on/off
- 4 output modes: astronomical, daily, cascade, service
- LEDs on the front panel indicating the status of inputs and outputs, GSM, GPRS signal, power supply status
- possibility to introduce 10 exceptions to the lighting operating schedule (e.g. calendar holidays, local holidays, etc.)
- possibility to upload any astronomical table
- possibility to set separate corrections for summer and winter
- alarm analysis system
- immediate information on the occurrence of alarm situations, i.e. power failure and cabinet opening
- visualization of drivers on a website map
- reporting system
- HTTPS encryption
- data archiving
- event recording
- lighting operating time counter (separate for each control output)
- remote upgrade of software and settings via GPRS
- remote programming of luminaires with APC-LED system
- operating in an astronomical mode based on GPS position or astronomical table data
- remote switching on/off of lighting during maintenance works
- possibility to control lighting in sports facilities such as football pitch, school playgrounds, etc.
- the ability to connect a central photocell for immediate response to strong weather changes. Its proper use allows to achieve great savings.