DIGITAL ASTRONOMICAL CONTROLLER

microBLUE

rabbit

SYSTEMY STEROWANIA OŚWIETLENIEM ULICZNYM

English

Thank You for purchasing the Digital Astronomical Controller microBLUE

This operation manual is aimed for presenting the device functions to the user.
Read the content of this operation manual and follow it.

Table of contents

Fig. 1

1. PURPOSE AND OPERATION METHOD

Digital astronomical controller **microBLUE** is a modern device, designed for controlling the street lighting. Controller programming is realized with use of smartphone or tablet from mBLUE application level.

Its basic task is turning on and off of lighting in appropriate relation to sunrise and sunset, including corrections made by the user. It is also possible to introduce the night breaks and/or activating the indicated outputs at constant time, specified by the user.

mBLUE is an application for controlling the street lighting. Installed in the smartphone or tablet, allows for managing the microBLUE controller. With use of mBLUE application it is possible to remotely read and modify the controller operation parameters, replace firmware when required, and all of it without opening the cabinet.

2. PROPERTIES AND TECHNICAL PARAMETERS OF THE DEVICE

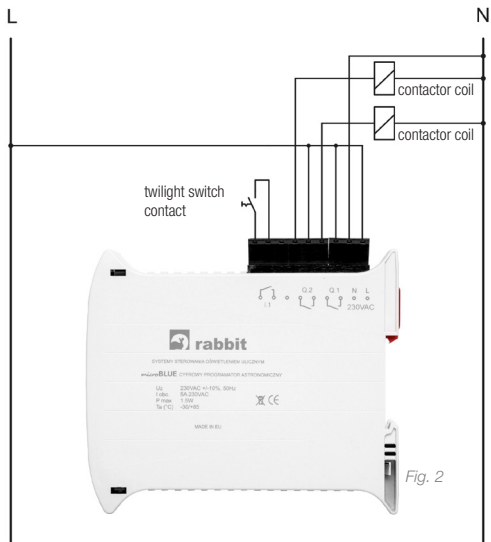## 2.1. Properties of the device

- full control and programming with use of smartphone or tablet from mBLUE application level
- simple and intuitive interface of free mBLUE application
- time synchronization according to smartphone or tablet GPS
- Bluetooth 2.0 communication
- access control with use of PIN code
- recording of events
- automatic summer/winter time change
- possibility of programming up to three night breaks or four activations at constant time

- LED on the front panel, signalling states of inputs and outputs, state of wireless connection with smartphone or tablet, state of power supply
- automatic location of controllers in the application map
- lighting operation time counter (independent for each control output)
- cooperation with twilight switch
- possibility of remote settings and firmware replacement
- possibility of remote programming of fittings with APC- LED system

2.2. Technical parameters

- supply voltage: 230 V +5/-10%, 50 Hz
- controller dimensions (W x H x L): 35 x 120 x 100 mm
- device width: 2 modules
- number of outputs: 2 (two independently programmable outputs)
- current carrying capacity of outputs: 5 A/230 V
- number of inputs: 1 (twilight switch, event recorder)
- operational temperature: from -30ºC to +80ºC
- protection degree: IP20
- installation in DIN mount

L

N

contactor coil

contactor coil

twilight switch
contact

Q2 Q1 N L
230VAC
I1

rabbit

Fig. 2

Connection diagram for microBLUE controller

signalling of Q1 output state

signalling of Q2 output state

signalling of I1 input state

signalling of Bluetooth connection operation state

signalling of power supply state

service button
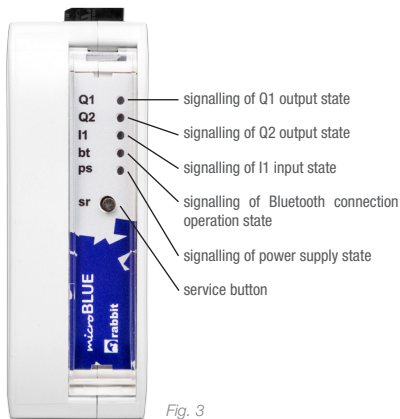
Fig. 3

Q1 and Q2 outputs operation state	
On	continuous light
Off	no light
Service activation	illuminates with short breaks every 1 second
Service deactivation	short flashes every 1 second
I1 input operation state	
Input closed	continuous light
Bluetooth connection operation state	
Connected	continuous light
Data transmission	bt diode diminishes
Power supply state	
ps diode illuminates with continuous light	
Service button	
Function for service only	

120mm

35mm

100mm

I.1   Q.2   Q.1   N   L
230VAC

rabbit

SYSTEMY STEROWANIA OŚWIETLENIEM ULICZNYM

microBLUE CYFROWY PROGRAMATOR ASTRONOMICZNY

Uz	230VAC +/-10%, 50Hz
I obc.	5A 230VAC
P max	1.5W
Ta (°C)	-30/+85

MADE IN EU
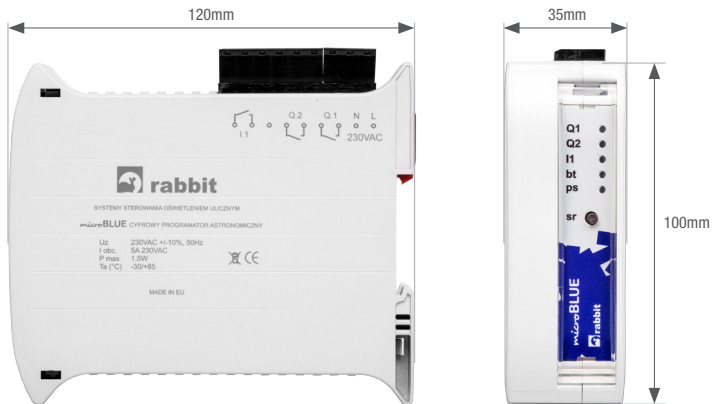
Q1
Q2
I1
bt
ps

sr

microBLUE
rabbit

Fig. 4

6. INSTALLATION OF mBLUE APPLICATION

Conditions for installation of mBLUE application:

- Smartphone with operation system Android 4.0 or higher.. Minimum required screen resolution 480 x 800 to display all interface elements correctly.
- Google account added in the smartphone

Google account may be created according to the following instructions:

https://support.google.com/accounts/answer/27441?hl=pl

There are two methods of installing mBLUE application:

1. Start Google Play application in your smartphone, in Search field enter mBLUE and press find key. Then select mBLUE position. It will display window with the application description as shown below.

Fig. 5

After pressing "Install" the mBLUE icon will appear in the smartphone or tablet.

Press it to run mBLUE application.

2. Using the link:

   https://play.google.com/store/apps/details?id=pl.droidsonroids.rabbit&hl=pl

   or scanning QR code

Using the link or QR code causes direct switching to the application description window. After pressing "Install" the mBLUE icon will appear in the smartphone or tablet.

Press it to run mBLUE application. Short information appears of how to connect with the controller, as well as available microBLUE controllers, as shown below.

Fig. 6

Complete operation manual for mBLUE application is available at our site *www.rabbit.pl*

Help is available while using mBLUE application.

Press the input field and select Help key.

WARRANTY CARD

WARRANTY CONDITIONS

1. The manufacturer assures the highest quality of products included in this Warranty Card.
2. The warranty period is 5 years from the sale date.
3. The warranty condition is to deliver the claimed product with intact seal to the service company with the warranty card and purchase proof.
4. Defects or damages occurring during the warranty period will be removed free of charge during 14 days from delivering the device to the service company.
5. The warranty period is prolonged with time during which the device is unsuitable for use. When user receives new product instead of the defective one, the warranty period starts from the beginning. When the product part is replaced, the above principle is valid for that part.
6. The warranty does not include damages resulting from:
   - incorrect connection,
   - short-circuits in controlled circuits,
   - lightning,
   - mechanical damages and resulting defects,
   - using the device in contrary to the operation manual
7. To all matters not settled herein provisions of the Civil Code shall apply.

WARRANTY CARD

DEVICE NAME AND TYPE	microBLUE
SALE DATE	....
IDENTIFICATION NO.	....

SERVICE COMPANY ADDRESS

Rabbit Sp. z o.o.
ul. Krakowska 141-155
50-428 Wrocław, POLAND
tel./fax: +4871 328 50 65
e-mail: rabbit@rabbit.pl
www.rabbit.pl

....
AUTHORIZED PERSON STAMP AND SIGNATURE

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Timers *category:*

Click to view products by RABBIT *manufacturer:*

Other Similar products are found below :

79237785 PM4HSDM-S-AC240V

H3CRASAC2448DC1248

H3CRF8NAC2448DC1248

H3CRFN300AC100240 H3DS-GL AC24-230/DC24-48 H3Y2AC1001205M

H3Y2AC2002305S H3Y4AC10012030S

H3Y4AC10012060S H5AN-4DM DC12-24

H5CN-XDNM AC100-240 H5CN-YAN

AC100-240 H5CXL8ENAC100240 H5CX-L8S-N AC100-240 H3AMNSCAC100240

H3AM-NSR-B AC100-240 H3CA-8 DC12 H3CR-A8-302 DC24 H3CR-F AC24-48/DC12-48 H3CR-G8EL AC200-240 H3DK-HCL AC100-120V H3MAC120A H3Y4AC10012010M H3Y4AC20023030S H3Y4DC241S H3Y4DC245S H5AN-4D DC12-24 H5SWB2D H3BA-N 110 VAC 81506944 88225029 H3AM-NS-A AC100-240 H3DKS1ACDC24240

H3DSFLAC24230DC2448

H5CXA11DNDC1224AC24 H5S-YB2D-X

H5S-YB4-X H3CA-8 DC24 H3CR-A-301

AC100-240/DC100-125

H3CRAAC100240DC100125 H3CR-AS

AC24-48/DC12-48 H3DK-GE AC240-440

H3RN-11 AC24 H3CA-8H DC24

H3CRA8EAC100240DC100125 H3BA-N8H

DC24V H3DKFACDC24240

H3DKGACDC24240 H3DKS2ACDC24240