



RFDA-73M/RGB

EN Dimming actuator for LED (RGB) strips, 3-channel
RS Trokanalni dimer za LED (RGB) trake



iNELS

RF Control

02-37/2015 Rev.2

Characteristics / Karakteristike

- The dimmer for LED strips is used for independent control of 3 single-color LED strips or one RGB LED strip.
- The expanded selection of control modes enables it to be combined with:
 - Detectors, Controllers and System units iNELS RF Control
 - by control signal 0(1)-10V
 - by connecting to iNELS BUS using a DAC ballast.
- The unit's three-module design with switchboard mounting enables connection of dimmed load 3x 5A, which represents:
 - single-color LED strip 7.2 W (ELKO Lighting) - 3x 8 m
 - RGB LED strip 14.4 W (ELKO Lighting) - 10 m.
- 6 light functions - smooth increase or decrease with time setting 2s-30 min.
- When switched off, the set level is stored in the memory, and when switched back on, it returns to the most recently set value.
- The dimmer may be controlled by up to 32 channels (1 channel represents 1 button on the controller).
- The power supply of the unit is in the range of 12-24 V DC, and is indicated by a green LED.
- The package includes an internal antenna AN-I, in case of locating the unit in a metal switchboard, you can use the external antenna AN-E for better signal reception.
- Memory status can be pre-set in the event of a power failure.
- For components labelled as iNELS RF Control² (RFIO²), it is possible to set the repeater function via the RFAF/USB service device.
- Range up to 160 m (in open space), if the signal is insufficient between the controller and unit, use the signal repeater RFRP-20 or protocol component RFIO² that support this feature.
- Communication frequency with bidirectional protocol iNELS RF Control² (RFIO²).
- You will find more on light sources and dimming options at www.elkoep.com/solutions.

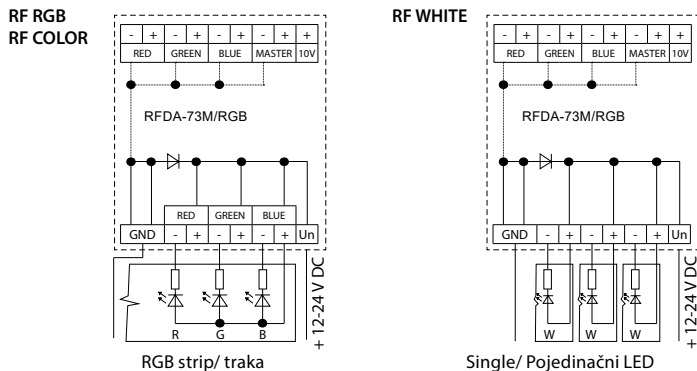
- Dimer za LED trake, koji se koristi za nezavisnu kontrolu tri jednobojne LED trake ili jedne RGB LED trake.
- Proširen izbor kontrolnih moda omogućava kombinaciju sa:
 - Detektorima, kontrolerima i sistemskim jedinicama iNELS RF Control
 - uređaj sa izlaznim signalom 0(1)-10V
- Dizajn sa tri modula sa montiranjem na radnu tablu omogućava povezivanje prigušnog opterećenja 3x5A, što predstavlja:
 - jednobojna LED traka 7.2 W (ELKO Lighting) - 3x 8 m
 - RGB LED traka 14.4 W (ELKO Lighting) - 10 m.
- 6 funkcija osvetljenja - blago povećanje ili smanjenje sa vremenskim podešavanjem od 2s-30 min.
- Kada se isključi, podešeni nivo se čuva u memoriji i vraća se na poslednje podešeno stanje nakon ponovnog uključivanja.
- Univerzalnim dimerom se može upravljati do 32 kanala (1 kanal predstavlja 1 dugme na kontroleru).
- Napon napajanja jedinice je u opsegu od 12 do 24 V DC i označen je zelenom LED lampicom.
- Paker uključuje unutrašnju AN-I antenu, u slučaju da se element postavi u metalnu razvodnu tablu, preporučuje se korišćenje spoljašnje AN-E antene za poboljšanje signala.
- Mogućnost podešavanja statusa memorije u slučaju nestanka struje.
- Za komponente označene kao iNELS RF Control² (RFIO²) moguće je podesiti funkciju repeitora putem RFAF/USB. servisnog uređaja
- Domet do 160 m (na otvorenom prostoru), uslučaju nedovoljnog signala između kontrolera i jedinice, koristiti RFRP-20 repetitor signala ili elemente sa RFIO² protokolom koji podržava ovu funkciju.
- Frekvencija komunikacije sa dvosmernim protokolom iNELS RF Control² (RFIO²).
- Više informacija o izvorima svetlosti i opcijama zatamnjivanja možete pronaći na www.elkoep.rs/resenja.

Assembly / Montaža

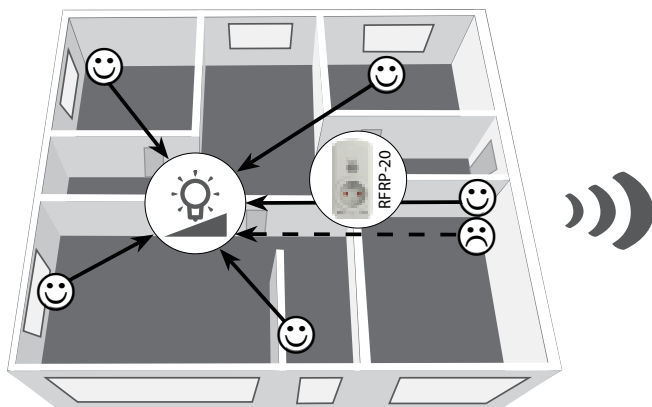
mounting into switchboard
montaža u razvodnu tablu



Connection of an LED strip / Konekcija sa LED trakom



Radio frequency signal penetration through various construction materials / Prenos radio frekvencijskih signala preko različitih građevinskih materijala



| | | | | |
|--------------|---|---------------------|------------------|-------------|
| | | | | |
| 60 - 90 % | 80 - 95 % | 20 - 60 % | 0 - 10 % | 80 - 90 % |
| brickwalls | wooden structures with plaster boards | reinforced concrete | metalpartitions | commonglass |
| zid od cigle | drvena konstrukcija sa gipsanim pločama | armirani beton | metalne pregrade | staklo |

For more information, see "Installation manual iNELS RF Control":
<http://www.elkoep.com/catalogs-and-brochures>

Za više informacija pogledati „Uputstvo za instalaciju iNELS RF Control”:
<https://www.elkoep.rs/preuzimanja>



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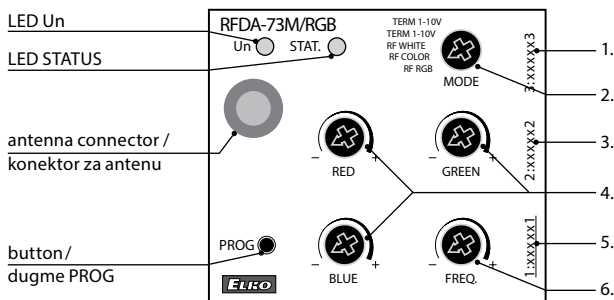


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RF Control

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Indication, manual control, settings / Indikacija, ručna kontrola, podešavanje



- LED Un - green - Supply voltage indication.
- LED STATUS - red - indication of the device status.
- Indicators of memory function:
 - On - LED blinks x 3.
 - Off - The LED lights up once for a long time.
- Manual control is performed by pressing the PROG button for less than 1s.
- Programming is performed by pressing the PROG button for more than 1s.

- LED Un - zelena - indikacija napona napajanja.
- LED STATUS - crvena - indikacija statusa uređaja.
- Indikacija memorijske funkcije:
 - Uključen - LED 3x blinka.
 - Isključen - LED 1x svetli jednom dugo.
- Ručna kontrola vrši se pritiskom na dugme PROG < 1s.
- Programiranje se vrši pritiskom na dugme PROG > 1s.

In the programming and operating mode, the LED on the component lights up at the same time each time the button is pressed - this indicates the incoming command.

U režimu programiranja LED lampica svetli istovremeno svaki put kada se pritisne taster - to ukazuje na dolaznu komandu.

1. Adress number 3.
2. Setting the control mode.
3. Address number 2.
4. Manual setting of colors for control of MASTER in the RF COLOR mode.
5. Address number 1.
6. Setting the frequency of the output PWM for attaining the optimum course of dimming.

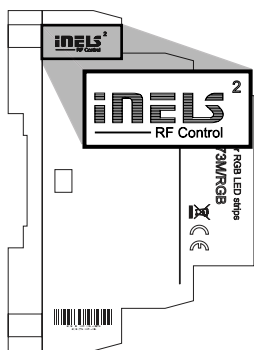
1. Adresa broj 3.
2. Podešavanje režima upravljanja.
3. Adresa broj 2.
4. Ručno podešavanje boja za kontrolu MASTER-a u režimu RF COLOR.
5. Adresa broj 1.
6. Podešavanje frekvencije izlaza PWM za postizanje optimalnog toka zatamnjenja.



- TERM 1-10V
TERM 0-10V
RF WHITE
RF COLOR
RF RGB
- Mode RF RGB - function CIRKUS
- Mode RF COLOR - function CIRKUS
- Mode RF WHITE
- light scene function 1
 - light scene function 2
 - light scene function 3
 - light scene function 4
 - sunrise function
 - sunset function
 - function ON/OFF
 - function switch off
- Mode RF THERM 0-10V
- Mode RF THERM 1-10V

- Režim RF RGB - funkcija CIRKUS
- Režim RF COLOR - funkcija CIRKUS
- Režim RF WHITE
- funkcija svetlosnih scena 1
 - funkcija svetlosnih scena 2
 - funkcija svetlosnih scena 3
 - funkcija svetlosnih scena 4
 - funkcija izlaska sunca
 - funkcija zalaska sunca
 - funkcije ON/OFF
 - isključenje funkcije
- Režim RF THERM 0-10V
- Režim RF THERM 1-10V

Compatibility / Kompatibilnost



The device can be combined with all system components, controls and devices of iNELS RF Control and iNELS RF Control². The detector can be assigned an iNELS RF Control² (RFIO²) communication protocol.

Uređaj se može kombinovati sa svim sistemskim komponentama, kontrolama i uređajima iNELS RF Control i iNELS RF Control². Detektoru se može dodeliti iNELS RF Control² (RFIO²) komunikacijski protokol.

Modes, programming and control / Režimi, programiranje i kontrola

RF RGB

Description of mode RF RGB / Opis režima RF RGB

This mode enables control of color and brightness of LED RGB strips. The default colors for the RF transmitter button are fixed.

Note: The RF RGB mode can be controlled only by:

- RF controllers: RFWB-40, RF KEY and RFIM-40.
- RF System units: RF Touch, RF Pilot, eLAN-RF-003 and eLAN-RF-Wi-003.

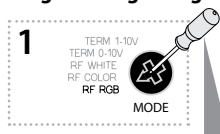
Ovaj režim omogućava kontrolu boje i osvetljenje LED RGB traka.

Podrazumevane boje za taster RF predajnika su fiksne.

Napomena: RF RGB režimom mogu da kontrolišu samo:

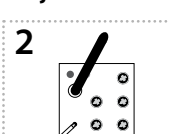
- RF kontroleri: RFWB-40, RF KEY a RFIM-40.
- Sistemske jedinice: RF Touch, eLAN-RF-003 i eLAN-RF-Wi-003.

Programming / Programiranje



Using a screwdriver on the MODE potentiometer, set the required RF RGB mode.

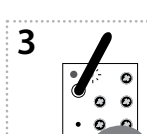
Uz pomoć srafcigera na potenciometru MODE podesiti željeni RF RGB režim.



1 X PROG > 1s

Press of programming button on receiver RFDA-73M/RGB for 1 second will activate receiver RFDA-73M/RGB into programming mode. LED is flashing in 1s interval.

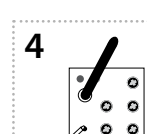
Pritiskom na taster za programiranje na prijemniku RFDA-73M/RGB u trajanju od 1s aktiviraće prijemnik. LED blinka u trajanju od 1s.



1 X

Pressing the upper left button on the RF transmitter programs the RF RGB mode. The colors are automatically assigned to the positions of buttons of the RF transmitter.

Pritiskom na gornje levo dugme na RF predajniku, programira se RF RGB režim. Boje se automatski dodeljuju položaju tastera RF predajnika.



1 X PROG < 1s

Press of programming button on actuator RFDA-73M/RGB shorter than 1 second will finish programming mode (LED switches off).

Pritisnite dugme za programiranje na aktuatuoru RFDA-73M/RGB kraće od 1s i završiće se režim programiranja (LED se isključuje).



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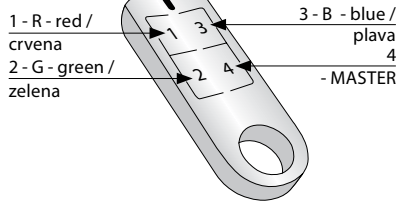


INEL

RF Control

02-37/2015 Rev.2

Control / Kontrola



Setting the brightness of output R, G, B is performed by a long press of the required button on the RF transmitter. By a short press of the button on the RF transmitter, the applicable output to the set brightness switches on/off. A long press of button 4 - MASTER starts the brightness settings of all outputs simultaneously. A short press switches on/off all outputs simultaneously to the set brightness. Underlined RF address no. 1 listed on the front panel is used to control the actuator RFDA-73M/RGB with RF control units in the RF RGB mode.

Podešavanje osvetljenosti izlaza R, G, B vrši se gumim pritiskomna taster koji se nalazi na RF predajniku. Kratkim pritiskom na taster na RF predajniku uključuje se/ isključuje se odgovarajući izlaz podešene osvetljenosti. Dugim pritiskom na taster 4 - MASTER istovremeno se pokreće podešavanje osvetljenosti svih izlaza. Kratkim pritiskom se istovremeno uključuju/isključuju svi izlazi na podešenu svetlost. Podvučena RF adresa br.1 navedena na prednjoj ploči koristi se za upravljanje akuatorima RFDA-73M/RGB sa RF upravljačkim jedinicama u RF RGB režimu.

Function programmable in the RF RGB mode / Programirane funkcije na RF RGB režimu

Function CIRCUS / Funkcija CIRKUS

Description of CIRCUS / Opis funkcije CIRKUS

In the RF RGB mode, it is possible to activate the CIRCUS function, which enables automatic spillover of RGB colors.

U RF RGB režimu moguće je aktivirati funkciju CIRCUS, koja omogućava automatsko prelijanje RGB boja.

Activating the function / Aktiviranje funkcija

RF controllers: start the function by simultaneous short press of the upper right and lower left buttons on the RF transmitter. The order of releasing the buttons does not matter. Terminate the CIRCUS function by pressing any button. This simultaneously activates the RF RGB mode.

RF kontroleri: pokrenite funkciju istovremenim kratkim pritiskom gornjeg desnog i donjeg levog dugmeta na RF predajniku. Redosled otpuštanja tastera nije važan. Prekinite funkciju CIRKUS pritiskom bilo kog dugmeta. Ovo istovremeno aktivira RF RGB režim.

System units:

starting the function is specified in the instruction manual of the given RF control unit.

Sistemske jedinice: pokretanje funkcije je navedeno u uputstvu za upotrebu date RF upravljačke jedinice.

RF COLOR

Description of RF COLOR mode / Opis režima RF COLOR

This mode enables control of color and brightness of LED RGB strips.

Ovaj režim omogućava kontrolu boje i osvetljenosti na LED RGB trakama.

The colors for the RF controller buttons are not fixed.

Boje tastera na RF kontroleru nisu fiksne.

Note: The RF COLOR mode can be controlled only by:

Napomena: Režimom RF COLOR mogu da upravljaju samo:

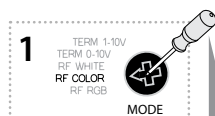
- RF controllers: RFWB-40, RF KEY and RFIM-40.

- RF kontroleri: RFWB-40, RF KEY a RFIM-40.

- System units: RF Touch, RF Pilot, eLAN-RF-003 and eLAN-RF-Wi-003.

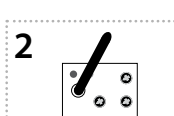
- Sistemske jedinice: RF Touch, RF Pilot, eLAN-RF-003 a eLAN-RF-Wi-003.

Programming / Programiranje



Using a screwdriver on the MODE potentiometer, set the required RF COLOR mode.

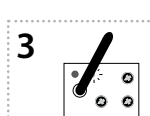
Uz pomoć šrafcigera na potenciometru MODE podesiti željeni RF COLOR režim.



1 X PROG > 1s

Press of programming button on receiver RFDA-73M/RGB for 1 second will activate receiver RFDA-73M/RGB into programming mode. LED is flashing in 1s interval.

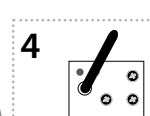
Pritiskom na taster za programiranje na prijemniku RFDA-73M/RGB u trajanju od 1s aktivira se prijemnik. LED blinka u trajanju od 1s.



1 X

Pressing the upper left button on the RF transmitter programs the RF COLOR. The position of buttons is assigned automatically.

Pritiskom na gornje levo dugme na RF predajniku, programira se RF COLOR režim. Boje se automatski dodeluju polazaju tastera RF

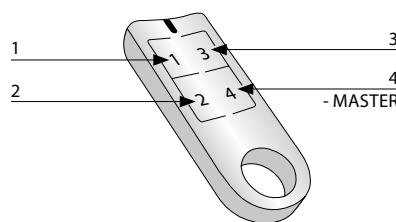


1 X PROG < 1s

Press of programming button on actuator RFDA-73M/RGB shorter than 1 second will finish programming mode (LED switches off).

Pritisnite dugme za programiranje na akuatoru RFDA-73M/RGB kraće od 1s i završiće se režim programiranja (LED se isključuje).

Control / Kontrola



Searching for a color - a long press of the required button of the RF transmitter starts "spillover of colors". Releasing the button stores the set color.

Switching on / off of the set color - a short press of the required button on the RF transmitter.

A short press of button 4 - MASTER switches on/off the color that is set by potentiometers RED, GREEN and BLUE on the front panel of the actuator.

A short press of a single button (1, 2 or 3) and consequent long press of button 4 - MASTER set the brightness of the selected color.

Underlined RF address no. 1 listed on the front panel is used to control the actuator RFDA-73M/RGB with RF control units in the RF COLOR mode.

Pretraga boje - dugim pritiskom na taster RF predajnika započinje „prelijanje boja“. Otpuštanjem tastera memorise se željena boja. Uključivanje/isključivanje podešene boje - kratkim pritiskom dugmeta na RF predajniku.

Kratkim pritiskom na taster 4 - MASTER uključuje/isključuje boju koju podešavaju potenciometri CRVENA, ZELENA i PLAVA na prednjoj ploči

Kratkim pritiskom jedinog od tastera (1, 2 ili 3) i posledičnim dugim pritiskom na taster 4 - MASTER podesite osvetljivost izabrane boje.

Podvučena RF adresa br.1 naveden na prednjoj ploči koristi se za upravljanje akuatorom RFDA-73M/RGB sa RF upravljačkim jedinicama u režimu RF COLOR.



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Function programmable in the RF COLOR mode / Programiranje funkcije u režimu RF COLOR

Function CIRCUS / Funkcije CIRKUS

Description of CIRCUS / Opis funkcije CIRKUS

In the RF COLOR mode, it is possible to activate the CIRCUS function, which enables automatic spillover of RGB colors.

U režimu RF COLOR moguće je aktivirati funkciju CIRCUS, koja omogućava automatsko prelivanje RGB boja.

Activating the function / Aktivacijefunkcije

RF controllers: start the function by simultaneous short press of the upper right and lower left buttons on the RF transmitter. The order of releasing the buttons does not matter. Terminate the CIRCUS function by pressing any button. This simultaneously activates the RF COLOR mode.

RF kontroleri: pokrenite funkciju istovremenim kratkim pritiskom gornjeg desnog i donjeg levog tastera na RF predajniku. Redosled otpuštanja rastera nije važan. Prekinite funkciju CIRCUS pritiskom bilo kog dugmeta. Ovo istovremeno aktivira režim RF COLOR.

System units:

starting the function is specified in the instruction manual of the given RF control unit.

Sistemske jedinice: pokretanje funkcije je navedeno u uputstvu za upotrebu date RF upravljačke jedinice.

RF WHITE

Description of mode RF WHITE / Opis funkcije RF WHITE

This mode enables use of 3 output channels for connecting 3 independent circuits of single-color LED strips. RFDA-73M/RGB can be controlled as 3 independent actuators RFDA-71B.

Note: The RF WHITE mode can be controlled only by:

- RF controllers: RFWB-20, RFWB-40, RF KEY, RFIM-20 and RFIM-40.

- System units: RF Touch, RF Pilot, eLAN-RF-003 and eLAN-RF-Wi-003.

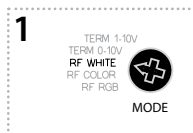
Ovaj režim omogućava upotrebu 3 izlazna kanala za povezivanje za 3 nezavisna kola ili jednobojnu LED traku. RFDA-73M/RGB se može kontrolisati sa 3 nezavisna aktuatora RFDA-71B.

Beleška: Režim RF WHITE može da se kontroliše samo sa:

- RF kontroleri: RFWB-20, RFWB-40, RF KEY, RFIM-20 i RFIM-40.

- Sistemska jedinica: RF Touch, RF Pilot, eLAN-RF-003 i eLAN-RF-Wi-003.

Setting the channel / Podešavanje kanala

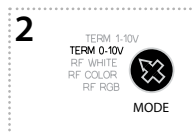


Programming channel 1:

Using a screwdriver on the MODE potentiometer, set the RF WHITE mode.

Programiranje kanala 1:

Uz pomoć šrafcigera podesiti MODE potencijometar, na RF WHITE režim.



Programming channel 2:

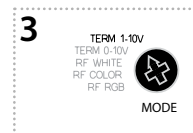
Using a screwdriver on the MODE potentiometer, set the THERM 0-10V mode.

Upon leaving the programming mode, it is necessary on the MODE switch to set the RF WHITE mode back.

Programiranje kanala 2:

Uz pomoć šrafcigera podesiti MODE potencijometar, na THERM 0-10V.

Po izlasku iz režima programiranja potrebno je potencijometar MODE postaviti na RF WHITE režim.



Programming channel 3:

Using a screwdriver on the MODE potentiometer, set the THERM 1-10V mode.

Upon leaving the programming mode, it is necessary on the MODE switch to set the RF WHITE mode back.

Programiranje kanala 3:

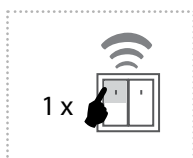
Uz pomoć šrafcigera podesiti MODE potencijometar, na THERM 1-10V.

Po izlasku iz režima programiranja potrebno je potencijometar MODE postaviti na RF WHITE režim.

Function programmable in the RF WHITE mode / Funkcije programiranja u režimu RF WHITE

Light scene function 1 / Funkcija svetlosne scene 1

Description of light scene 1 / Opis funkcije svetlosne scene 1



a) By pressing the programmed button for less than 0.5 s, the light illuminates; it goes out by pressing again.

b) By pressing the programmed button for more than 0.5 s, fluid brightness regulation will occur. After releasing the button, the brightness level is saved in the memory, and pressing the button shortly later will switch the light on/off to this intensity.

c) It is possible to readjust the change in intensity at any time by a long press of the programmed button.

The actuator remembers the adjusted value even after disconnecting from the power supply.

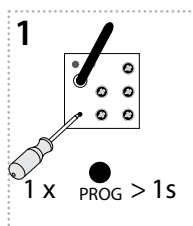
a) Pritiskom na isprogramirano taster kraće od 0,5s, uključuje se svetlo, drugim pritiskom se isključuje.

b) Pritiskom na isprogramirani taster duže od 0,5s kontinualno se reguliše osvetljenost. Kada se taster otpusti, intenzitet osvetljenosti se čuva u memoriji, ponovnim pritiskom na taster svetlo se uključuje/isključuje na tom podešenom intenzitetu.

c) Promena intenziteta se može restartovati u bilo kom trenutku dugim pritiskom na isprogramirani taster.

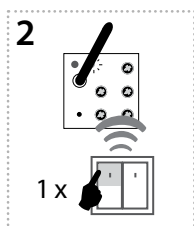
Uređaj pamti zadati intenzitet osvetljenosti čak i nakon prestanka napajanja.

Programming / Programiranje



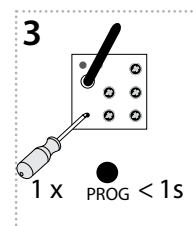
Press of programming button on actuator RFDA-73M/RGB for 1 second will activate actuator RFDA-73M/RGB into programming mode. LED is flashing in 1s interval.

Pritiskom na taster PROG na elementu RFDA-73M/RGB u trajanju od 1s, element se prebacuje u režim programiranja. LED lampica trepće u intervalima od 1s.



A press of your selected button on the RF transmitter assigns the function light scene 1.

Pritiskom na taster po vašem izboru na RF kontroleru dodeljuje se funkcija svetla scene 1.



Press of programming button on actuator RFDA-73M/RGB shorter than 1 second will finish programming mode. The LED lights up according to the pre-set memory function.

Pritiskom na taster PROG na RFDA-73M/RGB kraće od 1s, završava se režim programiranja. LED svetli u skladu sa podešenom funkcijom memorije.



RFDA-73M/RGB

EN Dimming actuator for LED (RGB) strips, 3-channel
RS Trokanalni dimer za LED (RGB) trake

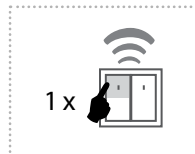


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RF Control

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Light scene function 2 / Funkcija svetlosne scene 2

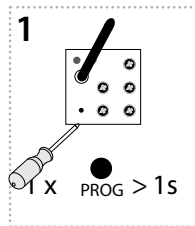
Description of light scene 2 / Opis funkcije svetlosne scene 2



- a) By pressing the programmed button for less than 3 s, the light illuminates; it goes out by pressing again.
- b) In order to limit undesirable control of brightness, fluid brightness control occurs only by pressing a programmed button for over 3 s. After releasing the button, the brightness level is saved in the memory, and pressing the button shortly later will switch the light on/off to this intensity.
- c) It is possible to readjust the change in intensity at any time by pressing the programmed button for over 3 s. The actuator remembers the adjusted value even after disconnecting from the power supply.

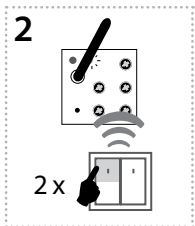
- a) Pritiskom na isprogramiranje taster kraće od 3s, uključuje se svetlo, drugim pritiskom se isključuje.
- b) Da bi se sprečila neželjena kontrola osvetljenosti, osvetljenost se reguliše samo pritiskom na isprogramirani taster duže od 3s. Kada se taster otpusti, intenzitet osvetljenosti se čuva u memoriji, ponovnim pritiskom na taster svetlo se uključuje/isključuje na tom podešenom intenzitetu.
- c) Promena intenziteta se može restartovati u bilo kom trenutku dugim pritiskom na isprogramirani taster duže od 3s. Uređaj pamti zadati intenzitet osvetljenosti čak i nakon prestanka napajanja.

Programming / Programiranje



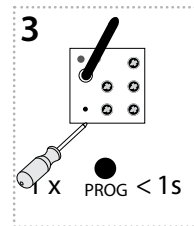
Press of programming button on actuator RFDA-73M/RGB for 1 second will activate actuator RFDA-73M/RGB into programming mode. LED is flashing in 1s interval.

Pritiskom na taster PROG na elementu RFDA-73M/RGB u trajanju od 1s, element se prebacuje u režim programiranja. LED lampica trepće u intervalima od 1s.



Two presses of your selected button on the RF transmitter assigns the function light scene 2 (must be a lapse of 1 s between individual presses).

Pritiskom 2x na taster po vašem izboru na RF kontroleru dodeljuje se funkcija svetla scene 2 (između svakog pritiska tastera mora biti razmak od 1s).

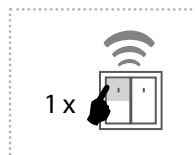


Press of programming button on actuator RFDA-73M/RGB shorter than 1 second will finish programming mode. The LED lights up according to the pre-set memory function.

Pritiskom na taster PROG na RFDA-73M/RGB kraće od 1s, završava se režim programiranja. LED svetli u skladu sa podešenom funkcijom memorije.

Light scene function 3 / Funkcija svetlosne scene 3

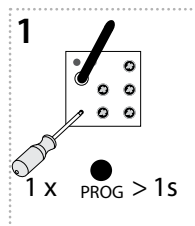
Description of light scene 3 / Opis funkcije svetlosne scene 3



- a) By pressing the programmed button for less than 0.5s, the light fluidly illuminates for a period of 3 s (at 100% brightness). By pressing the button shortly again, the light will continuously switch off for 3 seconds.
- b) By pressing the programmed button for more than 0.5s, fluid brightness regulation will occur. After releasing the button, the brightness level is saved in the memory, and pressing the button shortly later will switch the light on/off to this intensity.
- c) It is possible to readjust the change in intensity at any time by a long press of the programmed button. The actuator remembers the adjusted value even after disconnecting from the power supply.

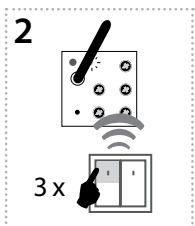
- a) Pritiskom na isprogramirani taster kraće od 0,5s, svetlo neprekidno svetli 3s (pri jačini od 100% osvetljenosti). Sa još jednim kratkim pritiskom, svetlo se neprekidno gasi 3s.
- b) Pritiskom na isprogramirani taster duže od 0,5s, kontinuirano se reguliše osvetljenost. Kada se taster otpusti, intenzitet osvetljenosti se čuva u memoriji i ponovnim pritiskom na taster se uključuje/isključuje svetlo na taj intenzitet.
- c) Promena intenziteta može se podesiti u bilo kom trenutku dugim pritiskom na isprogramirani taster. Uređaj pamti zadati intenzitet osvetljenosti čak i nakon prestanka napajanja.

Programming / Programiranje



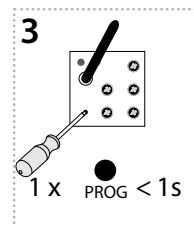
Press of programming button on actuator RFDA-73M/RGB for 1 second will activate actuator RFDA-73M/RGB into programming mode. LED is flashing in 1s interval.

Pritiskom na taster PROG na elementu RFDA-73M/RGB u trajanju od 1s, element se prebacuje u režim programiranja. LED lampica trepće u intervalima od 1s.



Three presses of your selected button on the RF transmitter assigns the function light scene 3 (must be a lapse of 1 s between individual presses).

Pritiskom 3x na taster po vašem izboru na RF kontroleru dodeljuje se funkcija svetla scene 3 (između svakog pritiska tastera mora biti razmak od 1s).

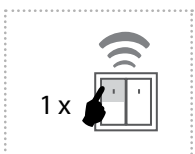


Press of programming button on actuator RFDA-73M/RGB shorter than 1 second will finish programming mode. The LED lights up according to the pre-set memory function.

Pritiskom na taster PROG na RFDA-73M/RGB kraće od 1s, završava se režim programiranja. LED svetli u skladu sa podešenom funkcijom memorije.

Light scene function 4 / Funkcija svetlosne scene 4

Description of light scene 4 / Opis funkcije svetlosne scene 4



- a) By pressing the programmed button for less than 0.5 s, the light illuminates. By pressing the button shortly again, the light will continuously switch off for 3 seconds (at 100% brightness).
- b) By pressing the programmed button for more than 0.5s, fluid brightness regulation will occur. After releasing the button, the brightness level is saved in the memory, and pressing the button shortly later will switch the light on/off to this intensity.
- c) It is possible to readjust the change in intensity at any time by a long press of the programmed button. The actuator remembers the adjusted value even after disconnecting from the power supply.

- a) Pritiskom na isprogramirani taster kraće od 0,5s, svetlo će se uključiti. Još jednim kratkim pritiskom, svetlo će se neprekidno gasiti 3s (pri jačini 100% osvetljenosti)
- b) Pritiskom na isprogramirani taster duže od 0,5s, kontinualno se reguliše osvetljenost. Kada se otpusti taster, intenzitet osvetljenosti se čuva u memoriji. Ponovnim kratkim pritiskom na taster svetlo se uključuje/isključuje na tom podešenom intenzitetu.
- c) Promena intenziteta može se podesiti u bilo kom trenutku dugim pritiskom na isprogramirani taster. Uređaj pamti zadati intenzitet osvetljenosti čak i nakon prestanka napajanja.



RFDA-73M/RGB

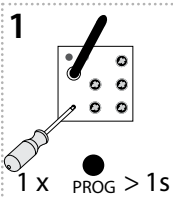
EN Dimming actuator for LED (RGB) strips, 3-channel
RS Trokanalni dimer za LED (RGB) trake



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RF Control

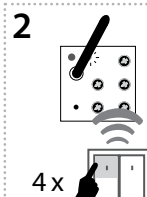
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Programming / Programiranje



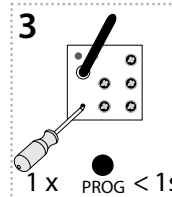
Press of programming button on actuator RFDA-73M/RGB for 1 second will activate actuator RFDA-73M/RGB into programming mode. LED is flashing in 1s interval.

Pritiskom na taster PROG na elementu RFDA-73M/RGB u trajanju od 1s, element se prebacuje u režim programiranja. LED lampica trepće u intervalima od 1s.



Four presses of your selected button on the RF transmitter assigns the function light scene 4 (must be a lapse of 1 s between individual presses).

Pritiskom 4x na taster po vašem izboru na RF kontroleru dodeljuje se funkcija svetla scene 4 (između svakog pritiska tastera mora biti razmak od 1s).

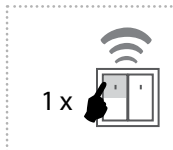


Press of programming button on actuator RFDA-73M/RGB shorter than 1 second will finish programming mode. The LED lights up according to the pre-set memory function.

Pritiskom na taster PROG na RFDA-73M/RGB kraće od 1s, završava se režim programiranja. LED svetli u skladu sa podešenom funkcijom memorije.

Function sunrise / Funkcija „Izlazak sunca“

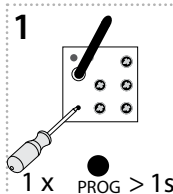
Description of sunrise function / Opis funkcije „Izlazak sunca“



After pressing the programmed button, the light begins to illuminate in the programmed time interval in a range of 2 seconds to 30 minutes.

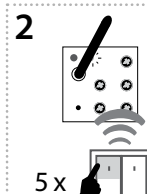
Nakon pritiska isprogramiranog tastera na RF kontroleru, osvetljenje počinje da svetli za azdati vremenski interval koji je u rasponu od 2s - 30min.

Programming / Programiranje



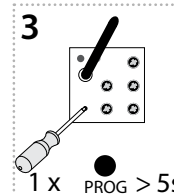
Press of programming button on actuator RFDA-73M/RGB for 1 second will activate actuator RFDA-73M/RGB into programming mode. LED is flashing in 1s interval.

Pritiskom na taster PROG na elementu RFDA-73M/RGB u trajanju od 1s, element se prebacuje u režim programiranja. LED lampica trepće u intervalima od 1s.



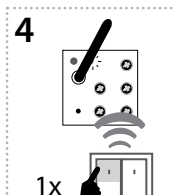
Assignment of the sunrise function is performed by five presses of the selected button on the RF transmitter (must be a lapse of 1 s between individual presses).

Pritiskom 5x na taster po vašem izboru na RF kontroleru dodeljuje se funkcija „Izlazak sunca“ (između svakog pritiska tastera mora biti razmak od 1s).



Press of programming button longer than 5 seconds, will activate actuator into timing mode. LED flashes 2x in each 1s interval. After releasing the button, the time of the sunrise function begins to count down (period of complete illumination of the light).

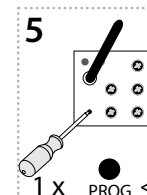
Pritiskom na taster za programiranje duže od 5s, element se prebacuje u režim tajmera. LED trepće 2x u intervalu od 1s. Nakon otpuštanja tastera, vreme „Izlaska sunca“ počinje da se odbrojava (period do potpunog osvetljenja sijalice).



After the desired time has elapsed, the timing mode ends by pressing the button on the RF transmitter, to which the sunrise function is assigned. This stores the set time interval into the actuator memory.

Nakon isteka željenog vremena, režim vremena se završava pritiskom tastera na RF kontroleru, kome je dodeljena funkcija „Izlazak sunca“. Ovo se memoriše u zadati vremenski interval u memoriju aktuatora.

t = 2s ... 30min.



Press of programming button on actuator RFDA-73M/RGB shorter than 1 second will finish programming mode. The LED lights up according to the pre-set memory function.

Pritiskom na taster PROG na RFDA-73M/RGB kraće od 1s, završava se režim programiranja. LED svetli u skladu sa podešenom funkcijom memorije.



RFDA-73M/RGB

EN Dimming actuator for LED (RGB) strips, 3-channel
RS Trokanalni dimer za LED (RGB) trake

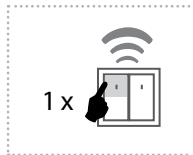


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Function sunset / Funkcija „Zalazak sunca“

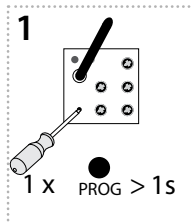
Description of sunset function / Opis funkcije „Zalazak sunca“



After pressing the programmed button, the light begins to dim in the programmed time interval in a range of 2 seconds to 30 minutes.

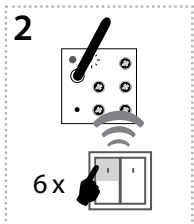
Nakon pritiska isprogramiranog tastera, osvetljenje počinje da se gasi za isprogramirani vremenski interval između 2s i 30 min.

Programming / Programiranje



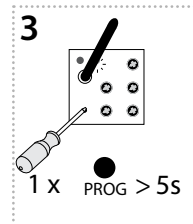
Press of programming button on actuator RFDA-73M/RGB for 1 second will activate actuator RFDA-73M/RGB into programming mode. LED is flashing in 1s interval.

Pritiskom na taster PROG na elementu RFDA-73M/RGB u trajanju od 1s, element se prebacuje u režim programiranja. LED lampica trepće u intervalima od 1s.



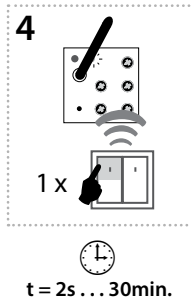
Assignment of the sunset function is performed by six presses of the selected button on the RF transmitter (must be a lapse of 1 s between individual presses).

Pritiskom 6x na taster po vašem izboru na RF kontroleru dodeljuje se funkcija „Zalazak sunca“ (između svakog pritiska tastera mora biti razmak od 1s).



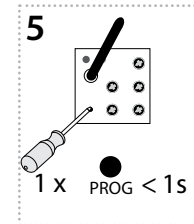
Press of programming button longer than 5 seconds, will activate actuator into timing mode. LED flashes 2x in each 1s interval. After releasing the button, the time of the sunset function begins to count down (period of complete dimming of the light).

Pritiskom na taster PROG duže od 5s, element se prebacuje u režim tajmera. LED trepće 2x u intervalu od 1s. Kada se otpusti taster, vreme „Zalazak sunca“ počinje da se odbrojava (vreme koje je potrebno da se svetlo potpuno ugasi).



After the desired time has elapsed, the timing mode ends by pressing the button on the RF transmitter, to which the sunset function is assigned. This stores the set time interval into the actuator memory.

Nakon isteka željenog vremena, režim vremena se završava pritiskom tastera na RF kontroleru, kome je dodeljena funkcija „Zalazak sunca“. Ovo se memoriše u zadati vremenski interval u memoriju aktuatora.

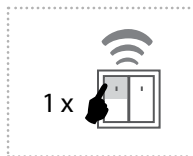


Press of programming button on actuator RFDA-73M/RGB shorter than 1 second will finish programming mode. The LED lights up according to the pre-set memory function.

Pritiskom na taster PROG na RFDA-73M/RGB kraće od 1s, završava se režim programiranja. LED svetli u skladu sa podešenom funkcijom me-

Function ON/OFF / Funkcija UKLJUČI/ISKLJUČI

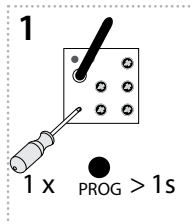
Description of ON/OFF / Opis funkcije UKLJUČI/ISKLJUČI



If the light is switched off, pressing the programmed button will switch it on. If the light is switched on, pressing the programmed button will switch it off.

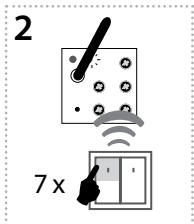
Ako je svetlo isključeno, pritiskom na isprogramirani taster uključuje se. Ako je svetlo uključeno, pritiskom na taster isključuje se.

Programming / Programiranje



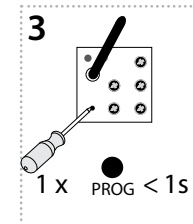
Press of programming button on actuator RFDA-73M/RGB for 1 second will activate actuator RFDA-73M/RGB into programming mode. LED is flashing in 1s interval.

Pritiskom na taster PROG na elementu RFDA-73M/RGB u trajanju od 1s, element se prebacuje u režim programiranja. LED lampica trepće u intervalima od 1s.



Seven presses of your selected button on the RF transmitter assigns the function ON/OFF (must be a lapse of 1 s between individual presses).

Pritiskom 7x na taster po vašem izboru na RF kontroleru dodeljuje se funkcija uključiti/isključiti (između svakog pritiska tastera mora biti razmak od 1s).



Press of programming button on actuator RFDA-73M/RGB shorter than 1 second will finish programming mode. The LED lights up according to the pre-set memory function.

Pritiskom na taster PROG na RFDA-73M/RGB kraće od 1s, završava se režim programiranja. LED svetli u skladu sa podešenom funkcijom memorije.



RFDA-73M/RGB

EN Dimming actuator for LED (RGB) strips, 3-channel
RS Trokanalni dimer za LED (RGB) trake

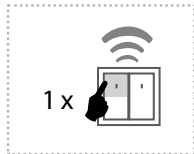


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Function switch off / Funkcija isključi

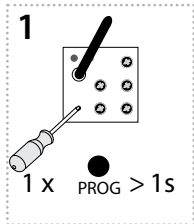
Description of switch off / Opis funkcije isključi



The dimmer output switches off by pressing the button.

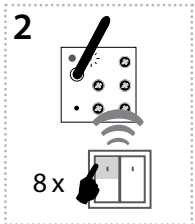
Izlaz zatanjenja osvetljenja isključuje se pritiskom na taster.

Programming / Programiranje



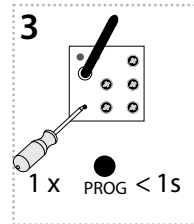
Press of programming button on actuator RFDA-73M/RGB for 1 second will activate actuator RFDA-73M/RGB into programming mode. LED is flashing in 1s interval.

Pritiskom na taster PROG na elementu RFDA-73M/RGB u trajanju od 1s, element se prebacuje u režim programiranja. LED lampica trepće u intervalima od 1s.



Eight presses of selected button on the RF transmitter assigns the function OFF (must be a lapse of 1s between individual presses).

Pritiskom 8x na taster po vašem izboru na RF kontroleru dodeljuje se funkcija isključi (između svakog pritiska tastera mora biti razmak od 1s).



Press of programming button on actuator RFDA-73M/RGB shorter than 1 second will finish programming mode. The LED lights up according to the pre-set memory function.

Pritiskom na taster PROG na RFDA-73M/RGB kraće od 1s, završava se režim programiranja. LED svetli u skladu sa podešenom funkcijom memorije.

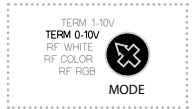
THERM 0-10V

Description of mode THERM 0-10V / Opis režima THERM 0-10V

The mode is used to control the actuator by analog inputs 0-10V by using the DAC3-04M or DAC3-04B. It is therefore possible to combine and control LED strips via iNELS.

Režim se koristi za upravljanje elementom pomoću analognih ulaza 0 – 10V uz pomoć DAC3-04M ili DAC3-04B. Stoga je moguće kombinovati i kontrolisati LED trake putem iNELS-a.

Programming / Programiranje



Using a screwdriver on the MODE potentiometer, set the THERM 0-10V mode.

Pomoću šrafcigera na potencijometru MOD podesite potreban režim THERM 0-10V.

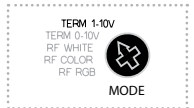
THERM 1-10V

Description of mode THERM 1-10V / Opis režima THERM 1-10V

The mode is used to control the actuator by analog inputs 1-10V by using the DAC3-04M or DAC3-04B. It is therefore possible to combine and control LED strips via iNELS.

Režim se koristi za upravljanje elementom pomoću analognih ulaza 1 – 10V uz pomoć DAC3-04M ili DAC3-04B. Stoga je moguće kombinovati i kontrolisati LED trake putem iNELS-a.

Programming / Programiranje



Using a screwdriver on the MODE potentiometer, set the THERM 1-10V mode.

Pomoću šrafcigera na potencijometru MOD podesite potreban režim THERM 1-10V.



RFDA-73M/RGB

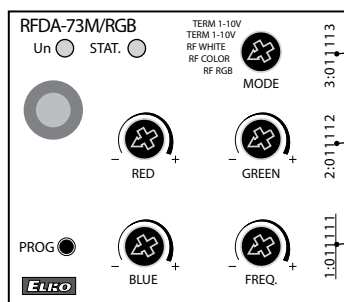
EN Dimming actuator for LED (RGB) strips, 3-channel
RS Trokanalni dimer za LED (RGB) trake



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Programming with RF control units / Programiranje sa RF kontrolne jedinice



address 3 /
adresa 3
address 2 /
adresa 2
address 1 /
adresa 1

Underlined address no. 1 listed on the front of the actuator is used for programming and controlling actuators by RF control units in the modes RF RBG and RF COLOR.

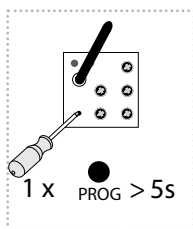
RF addresses 1, 2 and 3 listed on the front panel of the actuator are used for programming and control in the mode RF WHITE for individual channels 1, 2 and 3.

Podvučena adresa br.1 navedena je na prednjoj strani elementa koristi se za programiranje i kontrolu elementa u režimu RF RBG i RF COLOR.

Za programiranje i kontrolu u RF WHITE režimu, RF adrese 1, 2 i 3 koje su navedene na prednjoj strani elementa, koriste se za pojedinačne kanale 1, 2 i 3.

Delete actuator / Brisanje elemenata

Deleting one position of the transmitter / Brisanje jednog položaja na kontroleru



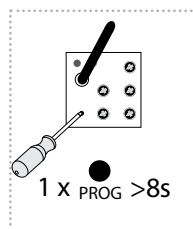
By pressing the programming button on the actuator for 5 seconds, deletion of one transmitter activates. LED flashes 4x in each 1s interval. Pressing the required button on the transmitter deletes it from the actuator's memory. To confirm deletion, the LED will confirm with a flash long and the component returns to the operating mode. The memory status is not indicated. Deletion does not affect the pre-set memory function.

Pritiskom na taster PROG koji se nalazi na RFDA-73M/RGB u trajanju od 5s aktivira se brisanje jednog kontrolera. LED 4xtrepće u intervalu od 1s.

Pritiskom na taster na kontroleru briše se iz memorije element.

Da bi se potvrdilo brisanje, LED lampica trepće dugo vremena i element se vraća u režim rada. Status memorije nije naznačen. Brisanje ne utiče na podešenu funkciju memorije.

Deleting the entire memory / Brisanje cele memorije



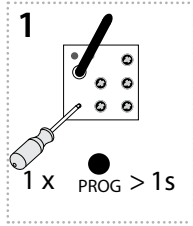
By pressing the programming button on the actuator for 8 seconds, deletion occurs of the actuator's entire memory. LED flashes 4x in each 1s interval. The actuator goes into the programming mode, the LED flashes in 0.5s intervals (max. 4 min.). You can return to the operating mode by pressing the Prog button for less than 1s. The LED lights up according to the pre-set memory function and the component returns to the operating mode. Deletion does not affect the pre-set memory function.

Pritiskom na taster PROG na elementu RFDA-73M/RGB u trajanju od 8s, briše se celokupna memorija elementa. LED trepće 4x u intervalu od 1s. Element se zatim prebacuje u režim programiranja, LED trepće u intervalu 0,5s (maksimum 4 minuta).

Da bi se vratili u režim rada, pritisnite taster PROG manje od 1s. LED će svetleti u skladu sa podešenom funkcijom memorije i element se vraća u režim rada.

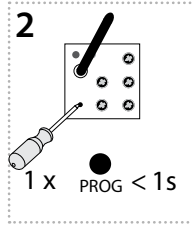
Brisanje ne utiče na podešenu funkciju memorije.

Selecting the memory function / Izbor funkcije memorije



Press of programming button on receiver RFDA-73M/RGB for 1 second will activate receiver RFDA-73M/RGB into programming mode. LED is flashing in 1s interval.

Pritiskom na taster PROG na elementu RFDA-73M/RGB u trajanju od 1s, element se prebacuje u režim programiranja. LED lampica trepće u intervalima od 1s.



Pressing the programming button on the RFDA-73M/RGB receiver for less than 1 second will finish the programming mode, this will reverse the memory function. The LED lights up according to the current pre-set memory function. The set memory function is saved. Every other change is made in the same way.

Pritiskom na taster za programiranje na RFDA-73M/RGB prijemniku kraći od 1s, režim programiranja će se završiti, a memorijska funkcija će se preokrenuti. LED svetli u skladu sa trenutno unapred podešenom funkcijom memorije. Podešena funkcija memorije je sačuvana.

Svaka druga promena vrši se na isti način.

• Memory function on:

- For functions 1-4, 7, 8, used to store the last state of the relay output before a power supply failure, changing the state of the output relay is written to the memory 15s after the change is made.

- For function 5, 6, the target state of the output relay is instantly written to the memory after the timing of the delay had been entered, after the power supply is reconnected, the output relay is set to the target state.

• Memory function off:

When the power supply is reconnected, the output remains off.

• Funkcija memorije :

- Za funkcije 1-4, 7, 8, koje se koriste za čuvanje poslednjeg stanja relejnog izlaza pre nestanka napajanja. Promena stanja izlaznog releja se zapisuje u memoriju svakih 15s nakon što je izvršena promena.

- Za funkcije 5, 6 ciljno stanje izlaznog releja se trenutno upisuje u memoriju nakon unosa vremena kašnjenja. Nakon ponovnog povezivanja napajanja, izlazni relej se postavlja u ciljno stanje.

• Isključenje funkcija memorije:

Kada se napajanje ponovo poveže, izlaz ostaje isključen.



RFDA-73M/RGB

EN Dimming actuator for LED (RGB) strips, 3-channel
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iNELS

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Technical parameters / Tehnički parametri

| | | |
|---|--|--|
| Supply terminals: | Terminali za napajanje: | Un+, GND |
| Supply voltage: | Napon napajanja: | 12-24 V DC stabilized / stabilan |
| Maximum power without load: | Maksimalna snaga bez opterećenja | 0.8 W |
| Output | Izlaz | |
| Dimmed load: | Dimer opterećenje: | LED strip / traka 12V, 24V with common anode / sa zajedničkom anodom RGB LED strip / traka 12V, 24V with common anode / sa zajedničkom anodom |
| Number of channels: | Broj kanala: | 3 |
| Rated current: | Nominalna struja: | 3x5 A |
| Peak current: | Struja prenapona: | 3x10 A |
| Switching voltage: | Prekidački napon: | Un |
| Control | Kontrola | |
| RF by command from the transmitter: | Frekvencija rada: | 866 MHz, 868 MHz, 916 MHz |
| Ext. signal: | Eksterni signal: | 0-10 V, 1-10 V |
| Range in open space: | Domet na otvorenom prostoru: | up to / do 160 m |
| Output for RF antenna: | Izlaz za RF antenu: | SMA connector / konektor * |
| Load capacity of output +10V: | Kapacitet izlaza +10V: | 10 mA |
| Other data | Ostali podaci | |
| Operating temperature: | Radna temperatura: | -20 ... + 50 °C |
| Storage temperature: | Temperatura skladištenja: | -30 ... + 70 °C |
| Working position: | Pozicija rada: | any / bilo gde |
| Mounting: | Montaža: | DIN rail / DIN šina EN 60715 |
| Protection: | Stepen zaštite: | IP 20 from front panel / na prednjoj strane panela |
| Contamination degree: | Stepen zagađenja: | 2 |
| Cross-section of connecting wires (mm ²): | Presek provodnika za povezivanje (mm ²): | max 1x2.5, max 2x1.5 / with a hollow / sa šupljinom maks.1x2.5 |
| Dimensions: | Dimenzije: | 90 x 52 x 65 mm |
| Weight: | Težina: | 130 g |
| Related standards: | Standardi: | EN 60730-1; EN 60730-2-11 |

* Max Tightening Torque for antenna connector is 0.56 Nm.

* Maks. moment pritezanja konektora antene je 0.56 Nm.

Attention:

When you instal iNELS RF Control system, you have to keep minimal distance 1 cm between each units.

Between the individual commands must be an interval of at least 1s.

Upozorenje:

Kada instalirate iNELS RF Control sistem, mora se poštovati minimalno rastojanje od 1 cm između pojedinih elemenata.

Između pojedinačnih komandi potrebno je da prođe interval od 1s.

Warning

Instruction manual is designated for mounting and also for user of the device. It is always a part of its packing. Installation and connection can be carried out only by a person with adequate professional qualification upon understanding this instruction manual and functions of the device, and while observing all valid regulations. Trouble-free function of the device also depends on transportation, storing and handling. In case you notice any sign of damage, deformation, malfunction or missing part, do not install this device and return it to its seller. It is necessary to treat this product and its parts as electronic waste after its lifetime is terminated. Before starting installation, make sure that all wires, connected parts or terminals are de-energized. While mounting and servicing observe safety regulations, norms, directives and professional, and export regulations for working with electrical devices. Do not touch parts of the device that are energized – life threat. Due to transmissivity of RF signal, observe correct location of RF components in a building where the installation is taking place. RF Control is designated only for mounting in interiors. Devices are not designated for installation into exteriors and humid spaces. The must not be installed into metal switchboards and into plastic switchboards with metal door – transmissivity of RF signal is then impossible. RF Control is not recommended for pulleys etc. – radiofrequency signal can be shielded by an obstruction, interfered, battery of the transceiver can get flat etc. and thus disable remote control.

Upozorenje

Uputstva za upotrebu su namenjena za ugradnju kao i za korisnike proizvoda. Uputstva se uvek dobijaju uz proizvod. Instalaciju i povezivanje smeju da obavljaju samo kvalifikovane osobe, u skladu sa svim važećim propisima, koja je detaljno upoznata sa ovim uputstvom i funkcijama komponenti. Funkcija elemenata takođe zavisi od prethodnog načina transporta, skladištenja i rukovanja. Ako u bilo kom slučaju primetite nekakve znakove oštećenja, deformacije, kvara ili ako neki deo nedostaje, nemojte ugrađivati uređaj, prijavite to prodavcu. Nakon što komponenti istekle životni vek, potrebno je tretirati je kao elektronski otpad. Pre započinjanja instalacije potrebno je prvo se uveriti da su žice, povezani delovi ili terminali bez napona. Tokom instalacije i održavanja moraju se poštovati sigurnosni propisi, standardi, direktive i profesionalne odredbe za rad sa električnom opremom. Ne dodirujte elemente pod naponom golim rukama, zbog mogućnosti stujnog udara i rizika od smrti. Zbog propustljivosti RF signala, obratiti pažnju na pravilno postavljanje RF elemenata u zgradi-gde će se izvoditi ugradnja. RF kontrola je namenjena samo za unutrašnju ugradnju. Elementi nisu namenjeni za spoljašnju ugradnju kao i za ugradnju u vlažne prostorije, ne smeju se ugraditi u metalne ormarije kao ni u plastične ormarije sa metalnim vratima iz razloga što će to sprečiti prenos radio frekvencijskog signala. RF kontrola se ne preporučuje za kontrolu uređaja koji pružaju životne funkcije kao i za kontrolu opasne opreme kao što su pumpe, električni grejači bez termostata, liftova, dizalica itd. iz razloga što prenos radio frekvencije može biti preklonjen, ometen, baterija predajnika se može isprazniti i na taj način daljinski upravljač može biti onemogućen.