

Technical parameters	RFDEL-71M/230V	RFDEL-71M/120V									
Supply voltage:	230 V AC / 50 Hz	120 V AC / 60 Hz									
Apparent power:	2.5 VA	1.1 VA									
Dissipated power:	0.8 W	0.6 W									
Supply voltage tolerance:	+10 / -15 %										
Dimmed load:	R,L,C, LED, ESL										
Output											
Contactless:	2 x MOSFET										
Load capacity:	600 W*	300 W*									
Output for antenna:	SMA connector**										
Control											
RF command from the transmitter:	866 MHz, 868 MHz, 916 MHz										
Range in open space:											
	up to 160 m										
Manual control:	SW (ON/OFF) button										
External button:	max. 50 m cable										
Glow lamps connection:	NO										
Analog control:	potentiometer or 0 (1) - 10 V										
Other data											
Operating temperature:	-20 up to + 35 °C										
Storage temperature:	-30 up to +70°C										
Operating position:	vertical										
Mounting:	DIN rail EN 60715										
Protection:	IP 20 under normal conditions										
Overvoltage category:	II.										
Contamination degree:	2										
Cross-section of connecting wires:	max. 1x 2.5, max. 2x 1.5 / with a hollow max. 1x 2										
Dimensions:	90 x 52 x 65 mm										
Weight:	125 g										
Related standards:	EN 607 3	0-1 ed.2									

* Due to the huge amount of type of light sources, the maximum load depends on internal construction of dimmable LED and ESL bulbs and their power factor $\cos \varphi$, capacity for power factor $\cos \varphi$ =1. The power factor of dimmable LEDs and ESL bulbs ranges from $\cos \varphi$ = 0.95 up to 0.4. An approximate value of maximum load may be obtained by multiplying the load capacity of the dimmer by the power factor of the connected light source.

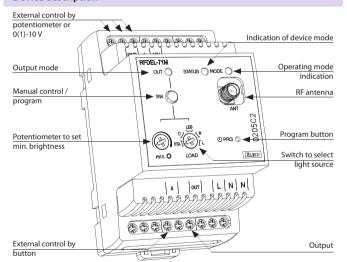
You can find the list of dimmable light sources here http:



^{**} Max Tightening Torque for antenna connector is 0.56 Nm.

- $\bullet \ \ The \ universal \ modular \ dimmer \ is \ used \ to \ regulate \ light \ sources:$
- R classic lamps
- L halogen lamps with wound transformer
- C halogen lamps with electronic transformer
- ESL dimmable energy-efficient fluorescent lamps
- LED LED light sources (230 V).
- Control can be performed by:
- a) Detectors, Controllers and System units iNELS RF Control
- b) by control signal 0(1)-10 V
- c) potentiometer
- d) existing button in the installation.
- The unit's three-module design with switchboard mounting enables connection of a dimmed load of up to 600 W.
- 6 light functions smooth increase or decrease with time setting 2 s-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.
- Thanks to setting the min. brightness by potentiometer, you will eliminate flashing of the LED and ESL light sources.
- The universal dimmer may be controlled by up to 32 channels (1 channel represents 1 button on the controller).
- The programming button on the controller is also used for manual control of the output.
- 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 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).

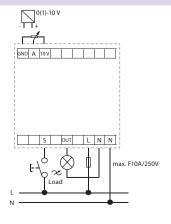
Device description



Function

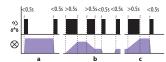
For more information see p. 75.

Connection



Multi function RFDA-73M/RGB, RFDEL-71B, RFDEL-71M, RFDSC-71, RFDAC-71B, RFDW-71

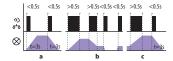
Light scene function 1



- 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.

Light scene function 3



- a) By pressing the programmed button for less than 0.5 s, 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 0.5 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.

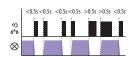
The actuator remembers the adjusted value even after disconnecting from the power supply.

Function sunrise



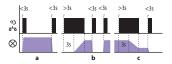
After pressing the programmed button, the light begins to illuminate in the programmed time interval in a range of 2 seconds to 30 minutes.

Function ON/OFF



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.

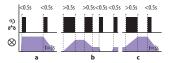
Light scene function 2



- 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.

Light scene function 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 0.5 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.

Function sunset



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

Function switch off



The dimmer output switches off by pressing the button.

Rating of the light source ELKO lighting on dimmers ELKO EP

	LED	bulb		LED spot lights					LED panels				LED / RGB strip											
	DLB-E27- 806-2K7	DLB-E27- 806-5K		DLSL-GU10- -350-3K		LSL-GU10- 350-5K		LP-6060-3K		LP-6060-6K					LED strip 14.4W		LED strip 19.2W		LED strip 28.8W		RGB strip 7.2W		RGB strip 14.4W	
	Mumber	nber number		number number			number		number		number		number		number		number		number		number		number	
RFDSC-71	√ 21	✓ 21	✓	45	✓	25	\checkmark	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RFDEL-71B	√ 11	√ 11	✓	25	√	13	✓	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RFDA-73M/RGB			-	-	-	-	-	-	-	-	-	-	✓	3x8m	✓	3x4m	✓	3x5m	✓	3x4m	✓	20m	✓	10m
RFDAC-71B			-	-	-	-	-	-	√	50	✓	50	-	-	-	-	-	-	-	-	-	-	-	-

WARNING!

May lead to different results based on the state of network cable length and other factors.

This table contains the results of tests that were conducted internally and therefore is ONLY for customers only informative. The products were tested in test laboratories ELKO EP, and therefore the company assumes no responsibility for any imitation test environment.

Inductive and capacitive loads must not be connected simultaneously!