# RFDA-73M/RGB | Dimmer for LED (RGB) strips, 3-channels

EAN code:
RFDA-73M/RGB: 8595188146814

| Technical parameters | RFDA-73M/RGB |
|---|---|
| Supply terminals: | Un+, GND |
| Supply voltage: | 12–24 V DC stabilized |
| Maximum power without load: | 0.8 W |
| **Output** | |
| Dimmed load: | LED strip 12 V, 24 V with common anode |
| | RGB LED strips 12 V, 24 V with common anode |
| Number of channels: | 3 |
| Rated current: | 3x5 A |
| Peak current: | 3x10 A |
| Switching voltage: | Un |
| **Control** | |
| Wireless: | up to 32-channels (buttons) |
| Communication protocol: | RFIO2 |
| Frequency: | 866–922 MHz (for more information see p.72) |
| Repeater function: | yes |
| Load capacity of output +10 V: | 10 mA |
| Ext. signal: | 0–10 V, 1–10 V |
| Range: | in open space up to 160 m |
| Wireless Antenna: | AN-I included (SMA connector*) |
| **Other data** | |
| Operating temperature: | -20 to +50 °C |
| Storage temperature: | -30 to +70 °C |
| Working position: | any |
| Mounting: | DIN rail EN 60715 |
| Protection: | IP20 from front panel |
| Contamination degree: | 2 |
| Cross-section of connecting wires (mm²): | max. 1x 2.5, max. 2x 1.5/ with a hollow max. 1x 2.5 |
| Dimensions: | 90 x 52 x 65 mm |
| Weight: | 130 g |
| Related standards: | EN 60730, EN 63044, EN 300 220, EN 301 489 |

* Max Tightening Torque for antenna connector is 0.56 Nm.

- The dimmer for LED strips is used for independent control of 3 single-colour LED strips or one RGB LED strip.
- The expanded selection of control modes enables it to be combined with:
  a) detectors, controllers and system units iNELS Wireless
  b) device with output signal 0 (1)–10 V
  c) potentiometer.
- The unit's 3-MODULE design with switchboard mounting enables connection of dimmed load 3x 5 A, which represents:
  a) single-colour LED strip 7.2 W – 3x 8 m
  b) RGB LED strip 14.2 W–10 m.
- 6 light functions – smooth increase or decrease with time setting 2 s – 30 min. Function description can be found on page 74.
- The dimmer may be controlled by up to 32-channels.
- 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, see accessories on page 67.
- Memory status can be pre-set in the event of a power failure.
- Range up to 160 m (in open space), if the signal is insufficient between the controller and unit, use the signal repeater RFRP-20N or protocol component RFIO2 that support this feature.
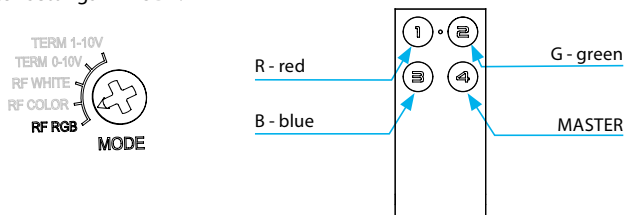
## Device description
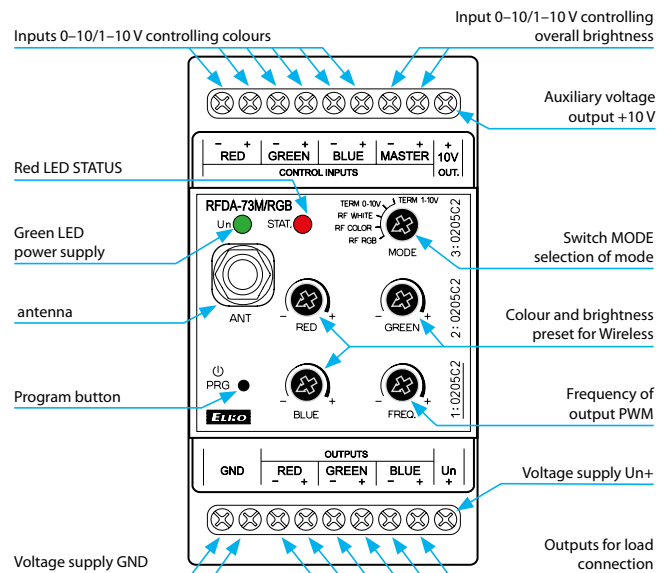


## Output variations and external control options



RF RGB/RF COLOUR

RF WHITE

Dimmers
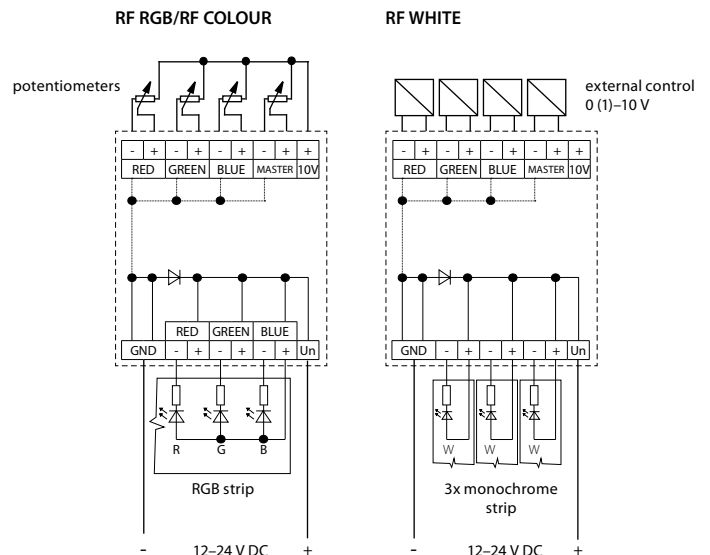
## Control modes

### RF RGB
Switch settings in MODE:
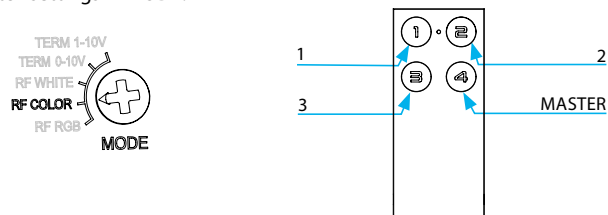
R - red
G - green
B - blue
MASTER

RF RGB mode for controlling RGB LED strips. In the RF RGB programming mode, colours are automatically assigned to individual transmitter buttons.

Note: The mode can be controlled by RF Touch, RF Pilot, RFWB-40/G, RF KEY, and eLAN-RF.

### RF Color
Switch settings in MODE:

1
2
3
MASTER

RF COLOUR mode for controling RBG LED strips, where you can choose the colour for individual transmitter buttons. A long press of the button starts the colour search mode. After releasing the button, the current colour is set for the given button.

Note: The mode can be controlled by RF Touch, RF Pilot, RFWB-40/G, RF KEY, and eLAN-RF.

### RF WHITE
Switch settings in MODE:
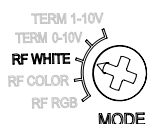
This works in a mode where it acts like three independent dimmers for 12–24 V. Each channel can be programmed independently of one another and has its own address.

Note: The mode can be controlled by RF Touch, RF Pilot, RFWB-20/G, RFWB-40/G, RF KEY and eLAN-RF.

### TERM 0–10 V and TERM 1–10 V
Switch settings in MODE:

Modes TERM 0–10 V and TERM 1–10 V.
Inputs 0–10 V and 1–10 V used to control one RGB LED strip or three independent single-colour LED strips (see modes above) from the iNELS BUS System. For controlling, you can use the application iHC for smartphones and tablets.

## Control options

**TERM 0(1)–10 V DC**
**- monochrome LED strips**

LED strips

**TERM 0(1)–10 V DC**
**- RGB LED strips**

RGB LED strips