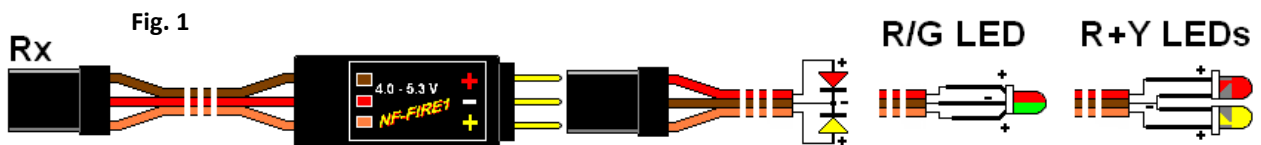


Flame Simulator NF-Fire1

The unit **NF-Fire1** serves to simulate flame of a candle or a kerosene lamp. The flame is simulated by bi-color Red/Green LED 3mm or 5mm. To increase the reality the light intensity and the color of the flame change in pseudo-random period like a candle in the wind. The intensity of the light can be controlled by receiver. The module is connected to receiver with a Graupner, Hitech type connector. Red color starts to light at the beginning of the range. The color of the light changes to yellow from the middle of the range.

The module is designed to work with BEC of the receiver but it can also work uncontrolled. In this case disconnect the orange signal and connect the red wire to + pole of the accumulator and the brown wire to the - pole. In this case the light intensity is 100% (full intensity). It works from 3,35 V. Maximum voltage is 5,5 V (also for BEC).

The module has two outputs, one for red color and the second for yellow/green color. The brown output (ground) is negative pole of LEDs (kathodes) and is common for both colors – see Fig. 1.



ATTENTION: the LEDs are polarized. As seen in Figure 1, the positive pole (+) is represented by the length of the legs that is longer than the length of the negative pole (-). Compared to them two-color LEDs have the common negative (-) pole on the central connector.

ATTENTION: the output connector has not a direction lock against change of polarity. If you turn the connector the order of colors will change.

If the module is sensitive to touch, the likely cause is a free overthrust of the servo-cable to the module connector. A dependable contact can be ensured by bending down the middle contact by a half, or at most its entire size. Bend it with small pliers, holding the module in your fingers as close as possible to the connector to reduce the risk of the contact's breaking – see Fig.2.



Technical parameters NF-Fire1

	min	typ.	max.
Operational voltage [V]:	3.35	5.0	5.5
Consumption [mA]:		< 1.7	
Input Pulse width [ms]:		0.95 – 2.05	
Temperature:		0 – 70 °C	
Dimensions [mm]:		32 x 12 x 4	
Weight [g]:		2.6	
LED weight - R/G 3 mm [g]:		0.22	

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