# OASiS \& Touch Compatible 

## Warning!






 flat etc. and thus disable remote control.

## Transmission of radiofrequency signals in various materials



## Characteristics

The Oasis \& Touch compatible uses wireless communication between transmitters RF Touch and RF Pilot (wall-mounted controller, keyring, motion detectors, door openers, etc.) and receivers to control home (wall-mounted controller, keyring, motion detectors, door openers, etc.)
ppliances, ilighting, electrica equipment, garage gates and roil-up shutters.
ontrolling and setting various lighting senes, survise or sunset simulations start or your return. It allows ontroling and or fire in your home.
It is ideal for installation into existing buildings, new constructions as well as refurbished houses, without ny need to chisel into the wall. Receivers (actuators) may be installed directly into a suitable mounting box or lighting covers.
-The RF Control system operates at 868 MHz .

- All transmitters are compatible with each other and can be combined with the previous version of the RF Control system.
Warning: Actuators without the OASIS \& Touch Compatible designation are not compatible with RF Touch or RF Pilot units.
Transmitter designs:
Dimming actuator
- is used for creating lighting scenes, controlling light or a group of lights.

RFDA-11B: basic - 1 light scene, OFF function .

- RFDA-71B: multifunction- 7 program functions: 6 different light
functions, ON/OFF function
$\square$ RFDEL-71B: Multifunction unit- 7 programmable functions: 6 light function, ON / OFF function select the type of load, setting of min. brightness
D:
RFDAC-71B: for continuous regulation of devices controlled with continuous voltage $0(1)-10 \mathrm{~V}$.
-7 program functions: 6 different light functions, ON/OFF function. - output voltage mode 0-10V or 1-10V selected by pressing the Prog button. Buttons > 2s. After releasing the button, the LED flashes,
indicating the output mode.
the green LED $-0-10 \mathrm{~V}$
-the red LED - 1-10V
All other signalling is indicated by the relevant colour LED.
- mounting box design (such as KU-68).

| Power <br> supply | symbol | description |
| :---: | :---: | :---: |
| R <br> resisive | Classic or halogen bulb |  |
| inductive |  |  |


| Technical parameters | RFDA-11B | RFDA-71B | RFDEL-71B | RFDAC-71B |
| :---: | :---: | :---: | :---: | :---: |
| Suply voltage: | $230 \mathrm{VAC} / 50 \mathrm{~Hz}$ |  |  | $110-230 \mathrm{~V}$ AC / $50-60 \mathrm{~Hz}$ |
| Apparent input: | $8.3 \mathrm{VA} / \cos \varphi=0.1$ |  | 1.1 VA | 3 VA |
| Loss input: | 0.83W |  | 0.8 W | 1.2 W |
| Supply voltage tolerance: | +10\%/-15\% |  | +10/-15\% | +10\%/-15\% |
| Connection: | 3-vodičové, $\mathrm{s}^{\prime}$ NULOU" / 3-wired, with "NEUTRAL" |  | 4-vodičové, "NULOU" $^{\prime}$ | 5-vodičové, s"NULOU"/ 5-wired, with "NEUTRAL" |
| Output |  |  |  |  |
| Contactless: | $2 \times \mathrm{MOSFET}$ |  |  | x |
| Load capacity | 250 W* |  | 160 W* | x |
| Resistive load: | $\checkmark$ |  |  | x |
| Capacitive load: | $\checkmark$ |  |  | x |
| Inductive load: | $\checkmark$ |  |  | x |
| LED | x |  | $\checkmark$ | x |
| ESL | X |  | $\checkmark$ | x |
| Zero-potential analogous output, max. current: | x |  |  | 0 (1)-10V DC/ 10 mA |
| The choice of output voltage: | X |  |  | 0-10V DC, 1-10V DC |
| Relay contact: | X |  |  | 1 XAgSn 0 , spíná fázový vodič/ switch. phase wire |
| Rated current: | X |  |  | 16 A / AC1 |
| Switching power: | X |  |  | 4000 VA / AC1 |
| Switching voltage: | x |  |  | $250 \mathrm{VAC1}$ |
| Mechanical life: | X |  |  | $3 \times 10^{7}$ |
| Electrical life (AC1): | x |  |  | $0.7 \times 10^{5}$ |
| Control |  |  |  |  |
| By RF command by transmitter: | 868 MHz |  |  | 868 MHz |
| Range in open area: | až 160 m |  |  | až / up to 200 m |
| Min. programming distance: | 20 mm |  |  | 20 mm |
| Minimum control distance: | 20 mm |  |  | 20 mm |
| Button: |  |  |  |  |
| - Prog.: | tlačítko / button PROG (0N/OFF) |  |  | tlačitko/button PROG (ON/OFF) |
| - external: | x |  | Ano | x |
| Neon: | x |  | Ne | X |
| Other data |  |  |  |  |
| Operation indication: | červená / red LED |  |  | červeno-zelená/red-green LED |
| Supply indication: | x |  |  | x |
| Operating temperature: |  |  | -20 až $+35^{\circ} \mathrm{C}$ | $-15 . .+50^{\circ} \mathrm{C}$ |
| Storage temperature: | -30 až $+70^{\circ} \mathrm{C}$ |  |  | -30 až $+70^{\circ} \mathrm{C}$ |
| Operating position: | libovolná / any |  |  | libovolná/ any |
| Mounting: | volné na prívodních vodicích / loose on connecting wires |  |  | volné na prívodních vodičich / <br> loose on connecting wires |
| Protection degree: | IP 30 |  |  | IP 30 |
| Overvoltage category: | III. |  |  | III. |
| Pollution degree: | 2 |  |  | 2 |
| Output leads: | $3 \times \varnothing 0.75 \mathrm{~mm}^{2}$ |  | $4 \times 0.75 \mathrm{~mm}^{2}$ | $3 \mathrm{x} \varnothing 0.75 \mathrm{~mm}^{2}, 2 \mathrm{x} \varnothing 2.5 \mathrm{~mm}^{2}$ |
| Length of leads: | 90 mm |  | 90 mm | 90 mm |
| Dimensions: | $49 \times 49 \times 21 \mathrm{~mm}$ |  |  | $49 \times 49 \times 21 \mathrm{~mm}$ |
| Weight: | 40 g |  |  | 52 g |
| Applicable standards: | EN 60669, EN 300220, EN 301489; směrnice/directive RTTE, NVč. 426/2000Sb (směrnice/directive 1999/ES) |  |  |  |

* loadability of power factor $\cos \varphi=1$

Power factor of dimmable LED and ESL bulbs moves in following range: $\cos \varphi=0.95$ to 0.4 .

| Type of load | mat. contacts contact | $\sqrt{\cos \varphi \geq 0.95}$ <br> AC1 | -M <br> AC2 | -(M) <br> AC3 | $=\square$ <br> AC5a uncompensated | AC5a compensated |  | $\begin{aligned} & 3 \mid \xi \\ & A C 6 \mathrm{a} \\ & \hline \end{aligned}$ | An <br> AC7b | $\begin{aligned} & \square \\ & \hline \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| RFDAC-71B | $\begin{gathered} \mathrm{AgSnO}_{2} \\ 16 \mathrm{~A} \\ \hline \end{gathered}$ | 250V/16A | 250V/5A | 250V/3A | 230V/3A (690V) | $\begin{gathered} 230 \mathrm{~V} / 3 \mathrm{~A}(690 \mathrm{VA}) \mathrm{do} \\ \max (=14 \mathrm{uF} \end{gathered}$ | 1000W | x | 250V/3A | 250V/1A |
| Type of load | mat. contacts <br> contact | $\begin{gathered} \hline 3 \mid \xi \star \\ \hline \text { AC13 } \\ \hline \end{gathered}$ | $\bar{m}$ <br> AC14 |  | $\square-$ | -(M) <br> DC3 | -(M) <br> DC5 |  | ल. $\mathrm{DC} 13$ | $\begin{aligned} & \overline{\aleph_{x}} \\ & \text { DC14 } \\ & \hline \end{aligned}$ |
| RFDAC-71B | $\begin{gathered} \mathrm{AgSnO}_{2} \\ 16 \mathrm{~A}^{2} \\ \hline \end{gathered}$ | x | 250V/6A | 250V/6A | 24V/10A | 24V/3A | 24V/2A | 24V/6A | 24V/2A | x |

## Control with connected button:

-Short button push ( $<0.55$ ) turns on / off the light

- Long button push (>0.5s) enables continuous control of light intensity.
- external button is superior to commands of the the RF units (RFTouch, RF Pilot RF Key), RF signal is blocked for 5 seconds after release of
external buttons


## Dimmer control:

- If the light is off, short push (<0.5s will switch on the light to the stored brightness leve
- Long push continuously regulate the light intensity. The brightness level is stored after button release
-Minimal brightness setting is for setting of minimal brightness and suppression of spontaneous blinking or switching off -For ESLbulbs, short button press increase increase brightness to a maximum level (to,"spark" on the gas discharge in ESL) and then drops to the preset brightness level


## Set the minimum brightness:

- Minimum brightness setting turned on when we perform load by turning the potentiometer min. brightness to the desired value.
- Min. brightness is automatically stored after cca. 3 seconds since the last potentiometer position change.

Setting the load type:
-Setting the type of load is performed with disconected load by turning the light source selector to the desired position

## Description of device protection

RFDEL device is protected against overheating, short-term and long-term overload:
Errors are signaled by rapidly flashing STATUS LED on the front panel of RFDEL
-Thermal protection: activated at constant output overload or insufficient cooling of the device.
Protection is active until the dimmer cool down to the working temperature. Then you can turn on the dimmer again, Remove the fault by providing a better cooling of the dimmer, reducing the input of the connected load, or switching to correct position of the light source

- Short-term overload: activates by a large short-term overload, such as short-term short-circuiting.

The protection is signalised by a short flashing of the connected load. Remove the fault by reducing amount of connected load,
or by switching to the correct position of the light source
Long-term overload: activated by permanent short circuit, output overload or excessive amount of connected load.
The protection device turns off after 5 minutes and dimmer tries to switch on again. Remove the fault by reducing amount of connected
load and check of the wiring by qualified electrician

## Additional Information

Do not mix more types of light sources!
Do not try to use energy saving bulbs that are not labeled as dimmable!
Incorrect setting of the type of light source affects the extent and dimming (but no damage to the dimmer or load)
Incorrect setting of the type of load can cause overheating of dimmer
Maximum number of light sources depends on their internal structure
List of tested light sources see Table. on www.rffontrol.cz in / data / svetelne_zdroje_RFDSC.pdf



EN $P$ Press and hold the Prog button for 15 to select the output voltage mode $0-10 \mathrm{~V}$ or $1-10 \mathrm{~V}$. After releasing the button, the LED flashes, indicating the output mode: the green LED $-0-10 V$, the red LED $-1-10 \mathrm{~V}$. All other signalling is indicated by the relevant colour LED.
For both output modes, the RFDAC-71B analogous actuator offers 7 program functions, which are identical to RFDA-71B functions. For controlling thermostatic heads, it is recommended for easier operation to select Function 5 to open the valve and Function 6 to close the valve.

An example for programming the RFDAC-71B receiver with RFWB-40/G wireless switch for controlling the thermostatic head: Press and hold the Prog button on the RFDAC-71B receiver for 1s to set the receiver to the output voltage $0-10 \mathrm{~V}$; the green LED flashes. Press and hold the Prog button for 35 to set the receiver into the programming mode. The green LED flashes at 1 -second intervals. By pressing the selected button on the wireless switch 5 times assign Function 5 "Sunrise simulation" - open the valve. By pressing the selected button (other than in the previous case) on the wireless switch 6 times set Function 6 "Sunset simulation" close the valve. Press the Prog button on the RFDAC-71B receiver for less than 1 s to save the programme and finish the programming mode (the green LED goes off).

An example of programming the RFDAC-71B receiver for the "Sunrise simulation" for 5 mins to control the dimmable lighting with the RF KEY keyring:
Press and hold the Prog button on the RFDAC-71B receiver for 1s to set the receiver to output voltage 1-10V; the red LED flashes. Press and hold the Prog button for 35 to set the receiver into the programming mode. The red LED flashes at 1 -second intervals. The required assignment of the "Sunrise simulation" function is done by pressing the selected keyring button 5 times. Pressing and holding the Prog button for more than 5 seconds will set the receiver into the timer mode. The red LED flashes 2 times at 1 -second intervals. The period of the "Sunrise simulation" will start (the time until the light lights up completely. After the required 5 minutes have elapsed, finish the timer mode by pressing the keyring button, to which the required "Sunrise simulation" function is assigned. The 5-minute interval is thus stored in the receiver memory. Press and hold the Prog button on the RFDAC-71B receiver for less than 1 second to save the programme and exit the programming mode (the red LED goes off).


