PROSWEDE EL AB
"Vår kunskap – Din styrka"

Industrigatan 4
212 14 Malmö
Sweden

RF Control®

02-001 Rev6

OASiS & Touch Compatible

RFSA-11B
RFSA-61B
RFSA-62B
RFSAI-61B

RFSA-61M
RFSA-66M
RFUS-61

Switching actuator

4589,4168,4169,4172

4526,4054,4282,4494

Warning!

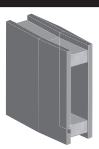
Instruction manual is designated for mounting and also for user of the device. It is always a part of its packing. Installation and connection can be carried out only by a person with adequate professional qualification upon understanding this instruction manual and functions of the device, and while 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, do not use in areas affected by high-frequency interference. 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.

Technical parameters	RFSA-11B	RFSA-61B	RFSA-61M	RFSA-62B	RFSA-66M	RFSAI-61B	RFUS-11	RFUS-61
Suply voltage:	230 V AC / 50-60Hz		110-230V AC / 50-60Hz	230V AC / 50-60Hz	110-230V AC / 50-60Hz	230 V AC / 50 - 60 Hz	230 V AC / 50 - 60 Hz	
Apparent input:	7 VA / cos φ = 0.1		2.7 VA / cos φ = 0.6	7 VA / cos φ = 0.1	min. 2VA / max. 5VA	7 VA / cos φ = 0.1	5 VA / cos φ = 0.1	
Loss input:	0.7 W		1.62W	0.7 W	min. 0.5W m/ max. 2.5W	0.7 W	0.6 W	
Supply voltage tolerance:	+10% / -15 %		+10% / -25 %	+10% / -15 %	+10% / -25 %	+10 %; -15 %	+10 %; -15 %	
Output								
Number of contacts:	1x spínací / NO ($AgSnO_2$)		1x changeover ($AgSnO_2$)	2x switch / NO ($AgSnO_2$)	3x chang.;3x switch./NO ($AgSnO_2$)	1x switch ($AgSnO_2$)	1 x changeover ($AgSnO_2$)	
Rated current:	16 A / AC1			8A / AC1		16 A / AC1	12 A / AC1	
Switching power:	4000 VA / AC1, 384 W / DC			2000 VA / AC1		4000 VA / AC1, 384 W / DC	3000 VA / AC1, 384 W / DC	
Peak current:	30 A / <3 s			10 A / <3 s		30 A / <3 s	30 A / <3 s	
Switching voltage:	250 V AC1 / 24 V DC			250 V AC1 / 24 V DC		250 V AC1 / 24 V DC	250 V AC1 / 24 V DC	
Min.switching power DC:	500 mW			500 mW		500 mW	500 mW	
Mechanical life:	3×10^7			$1x10^7$		$3x10^7$	$3x10^7$	
Electrical life (AC1):	0.7×10^5			$1x10^5$		$0.7x10^5$	$0.7x10^5$	
Control								
By RF command by transmitter:	868 MHz			868 MHz		868 MHz	868 MHz	
Minimum control distance:	20 mm			20 mm		20 mm	20 mm	
Maximum control distance:	x			x		max. 12 m	x	
Emergency control:	button PROG (ON/OFF)			button PROG (ON/OFF)		button PROG (ON/OFF)	button PROG (ON/OFF)	
Range in open space:	up to 200m			up to 100m	up to 200m	up to 200 m	up to 200 m	
Other data								
Open contact voltage	x			x		3V	x	
Wiring resist. for closed button contact:	x			x		<1 kΩ	x	
Wiring resist. for open button contact:	x			x		>10 kΩ	x	
Input galvanic isolation:	x			x		Ne	x	
Operation indication:	red LED			red-green LED	red LED	red LED	red LED	
Supply indication:	x		green LED	x		x	x	
Operating temperature:	-15 .. +50 °C			-15 ... +50 °C		-15 až + 50 °C	-15 až + 50 °C	
Operating position:	any			any		any	any	
Mounting:	loose on connecting wires		DIN rail EN 60715	loose on connecting wires	DIN rail EN 60715	loose on connecting wires	by screwing	
Protection degree:	IP 30		IP20 from front pan.	IP 30	IP20 from front pan.	IP 30	IP 65	
Overvoltage category:	III.			III.		III.	III.	
Pollution degree:	2			2		2	2	
Profile of connecting wires:	x		max. 1x2.5, max. 2x1.5 / with sleeve max. 1x2.5	x	max. 1x2.5, max. 2x1.5 / with sleeve max. 1x2.5	x	max. 1x2.5, max. 2x1.5 / with sleeve max. 1x2.5	
Recommended power supply cable:	x		x	x	x	x	CYKY 3x1.5 (CYKY 4x1.5)	
Output leads :	2 x Ø 0.75 mm^2, 2 Ø x 2.5 mm^2		x	3x Ø 0.75 mm^2, 1x Ø 2.5 mm^2	x	2x 0.75 mm^2, 2x 2.5 mm^2		
Length of leads:	90 mm		x	90 mm	x	90 mm		
Dimensions:	49 x 49 x 21 mm		90 x 17.6 x 64 mm	49 x 49 x 21 mm	90 x 52 x 64 mm	49 x 49 x 21 mm	136 x 62 x 34 mm	
Weight:	46 g	46 g	74 g	46 g	264 g	46 g	146 g	
Applicable standards:	EN 60669, EN 300220 , EN 301489; directive RTTE, NVč. 426/2000Sb (directive 1999/ES)							

Type of load	mat. contacts contact	AC1	AC2	AC3	AC5a uncompensated	AC5a compensated	AC5b	AC6a	AC7b	AC12
RFSA-62B, RFSA-66M	$AgSnO_2$ 8A	250V / 8A	250V / 5A	250V / 4A	x	x	250W	250V / 4A	250V / 1A	250V / 1A
RFSA-11B, RFSA-61B, RFSA-61M, RFSAI-61B	$AgSnO_2$ 16A	250V / 16A	250V / 5A	250V / 3A	230V / 3A (690V)	230V / 3A (690VA) do max C=14uF	1000W	x	250V / 3A	x
RFUS-11, RFUS-61	$AgSnO_2$ 14A	250 V / 14A	250V / 5A	250V / 3A	230V / 3A (690V)	230V / 3A (690VA) do max C=14uF	1000W	x	250V / 3A	x
Type of load	mat. contacts contact	AC13	AC14	AC15	DC1	DC3	DC5	DC12	DC13	DC14
RFSA-62B, RFSA-66M	$AgSnO_2$ 8A	x	250V / 4A	250V / 3A	30V / 8A	30V / 3A	30V / 2A	30V / 8A	30V / 2A	x
RFSA-11B, RFSA-61B, RFSA-61M, RFSAI-61B	$AgSnO_2$ 16A	x	250V / 6A	250V / 6A	24V / 10A	24V / 3A	24V / 2A	24V / 6A	24V / 2A	x
RFUS-11, RFUS-61		x	250V / 6A	250V / 6A	24V / 10A	24V / 3A	24V / 2A	24V / 6A	24V / 2A	x

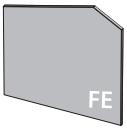
Transmission of radiofrequency signals in various materials

60 - 90 %



80 - 95 %

20 - 60 %



0 - 10 %

80 - 90 %

Characteristics

The Oasis & Touch compatible uses wireless communication between transmitters (wall-mounted controller, keyring, motion detectors, door openers, etc.) and receivers to control home appliances, lighting, electrical equipment, garage gates and roll-up shutters.

It enables you to switch various devices on and off depending on the time of start or your return. It allows controlling and setting various lighting scenes, sunrise or sunset simulations, as well as controlling roll-up shutters, screens and canopies. Using sensors, the RF Control system warns you of any motion of persons or fire in your home.

It is ideal for installation into existing buildings, new constructions as well as refurbished houses, without any 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:

Switching actuator

- is designed for controlling electrical appliances, lighting, heating, sockets...

- RFSA-11B: basic 1-channel actuator – on/off function
- RFSA-61B: multifunction 1-channel actuator – 6 functions: button, on, off, impulse relay, delayed return, delayed start.
- RFSA-62B: multifunction 2-channel actuator – 6 functions: button, on, off, impulse relay, delayed return, delayed start.

  The 2-channel design allows for function programming independently for each individual channel.
  - Press the Prog button and hold for more than 2s to select channel After releasing the button, the LED flashes, indicating the output:
    - green LED - channel 1
    - red LED - channel 2

  All other signalling is indicated by the relevant colour LED.
- Mounting box design (such as KU-68).
- RFSA-61M: multifunction 1-channel actor, 1-MODULE design
- RFSA-66M: multifunction 6-channel actuator. The 6-channel design allows for programming functions independently for each individual channel, 6-MODULE design
- 6 functions: button, on, off, impulse relay, delayed return, delayed start.
- An internal antenna is included in the standard package, while an AN-E antenna is available to order.
- RFSA-61B: multi-function actuator functions: button, switch on,, turn off, impulse relay- delay ON, delay OFF
  - Programming and manual control ON / OFF is done by Prog button
  - Switching actuator is equipped with input for external control button
  - By installing actuator under the wall switch will enable further control of lighting with wireless RF transmitters or RF touch central unit.

  At the same time it is possible to control the actuator with current button, but also with a wireless control switch.

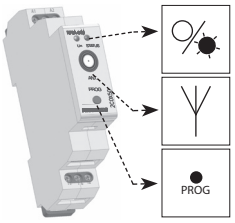
NOTE: Input is NOT galvanically isolated, it is not possible to connect it to an external power supply. An external wired button is programmed same way as wireless one.

- RFUS-11: single function actuator - on, off*
- RFUS-61: Multifunction actuator - button, switch on, switch off, pulse relay, delay on, delay off*

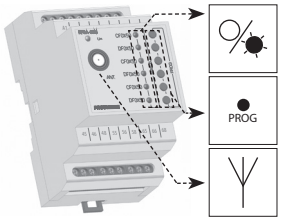
* RF switching actuators with increased protection IP 65 are designed for installation in challenging environment: dusty and humid, outdoor spaces, basements, greenhouses, boilers, tanks and containers, coolers, ...

Device description

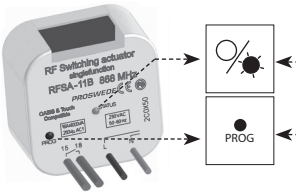
RFSA-61M



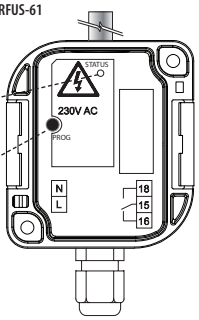
RFSA-66M



RFSA-11B, RFSA-61B, RFSA-62B, RFSAI-61B

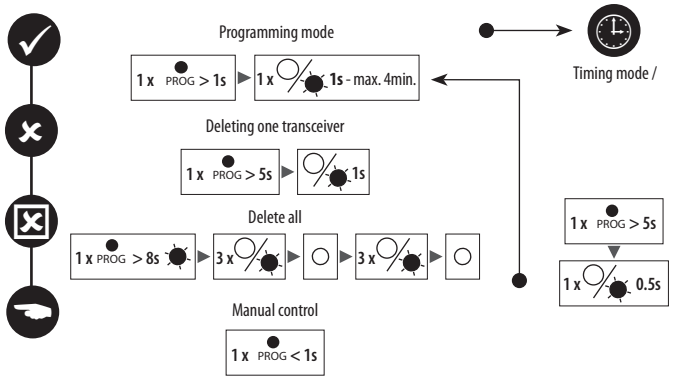


RFUS-11, RFUS-61

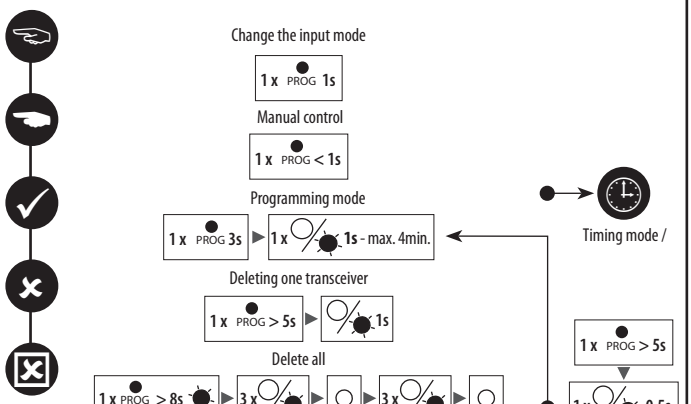


Operation modes of receivers

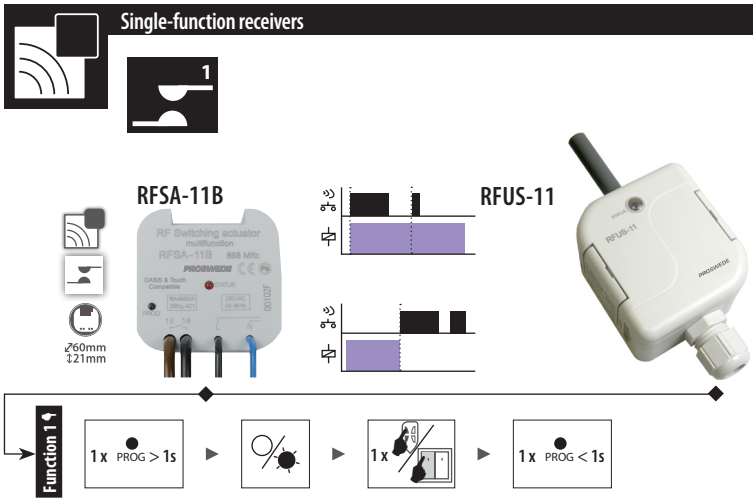
RFSA-11B; RFSA-61B; RFSA-61M; RFSA-66M
RFSAI-61B; RFUS-11; RFUS-61



RFSA-62B



Single-function receivers



Legend

- by RF KEY and RFWB-40/G is first control position set just by one touch of control element, second control position is set automatically
- press any control element (first next press after 1s)
- press exact control element
- LED on receiver is flashing in 1s interval
- t setting
- press programmable button on receiver
- LED flashs 2x in each 1s interval
- LED flashs 2x in each 1s interval

Function 1

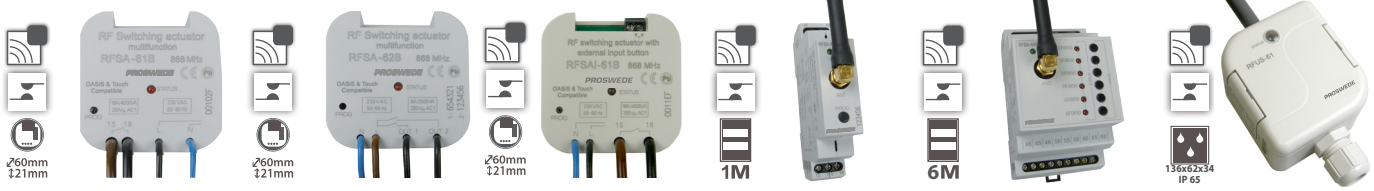
Example programming of receiver RFSA-11B with wireless switch RFWB-40/G or key-chain RF KEY

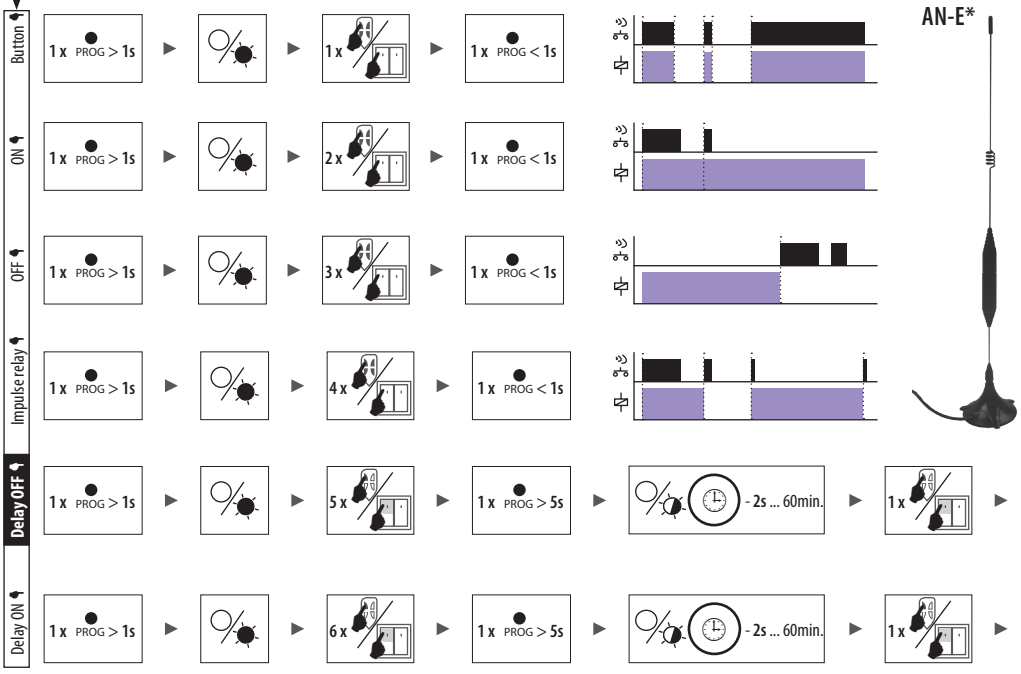
Press of programming button on receiver RFSA-11B for 1second will activate receiver RFSA-11B into programming mode. LED is flashing in 1s interval. Select and press one button on wireless switch or key-chain, to this button will be assigned Function 1-close. Second control position –open, will be assigned automatically (on the same half of wireless switch/key-chain).

Press of programming button on receiver RFSA-11B shorter then 1 second will finish programming mode (LED switches off).

Multifunction switching receivers

RFSA-61B | RFSA-62B | RFSAI-61B | RFSA-61M | RFSA-66M | RFUS-61





AN-E*

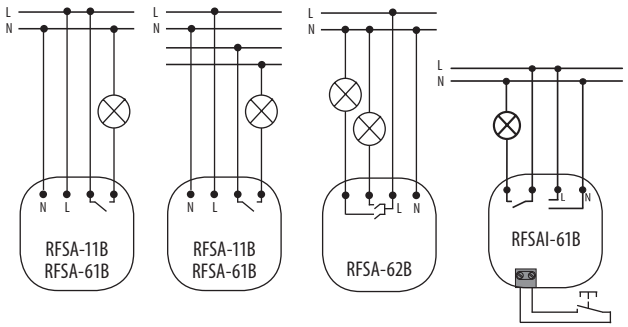
* Picture of antenna doesn´t correspond to its size.
For metal distribution boxes - supplied to order with RFSA-61M, RFSA-66M and RFSG-1M.

Delay OFF

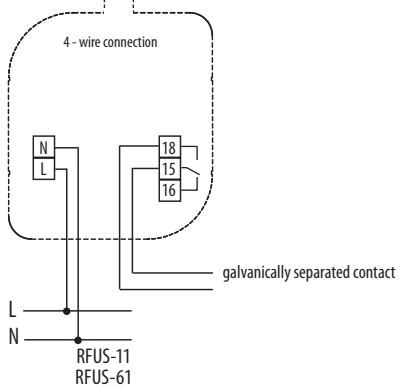
Example programming of time function "Delay OFF-delayed return" for 5min on receiver RFSA-61B:
Set the RFSA-61B receiver into the programming mode by pressing and holding the Prog button for 1s. LED is flashing in 1s interval. (Programming of RFSA-61M, RFSA-66M, RFSAI-61B, RFUS-61 is identical.)
Required "Delay OFF" function is assigned to any button on wireless switch or key-chain, which is pressed 5x. Press of programming button longer then 5 seconds, will activate receiver into timing mode. LED flashs 2x in each 1s interval. Time "Delay OFF" starts to count out. After expiration of required 5 min is timing mode stopped by press of button (on wireless switch or key-chain), to which was assigned function "Delay OFF". 5 min interval is than saved into memory of receiver. Press of programming button on receiver RFSA-61B shorter then 1 second will finish programming mode (LED switches off). Receiver programmed like this, can be used as a staircase switch.Before programming the RFSA-62B, select the channel. Switch between channels 1 and 2 by pressing and holding the Prog button for 1s. Channel 1 is indicated by the green LED, Channel 2 is indicated by the red LED. Set the RFSA-62B receiver into the programming mode by pressing and holding the Prog button for 3s. Further programming is the same as with RFSA-61B. Control the selected channel by pressing the button for less than a second.

Connection

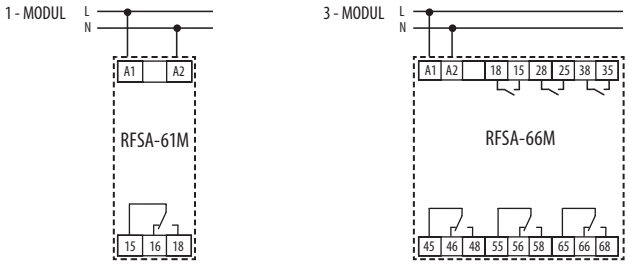
- designed for installation box



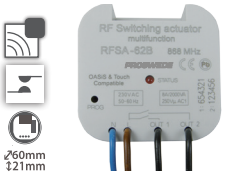
- housing with protection IP65

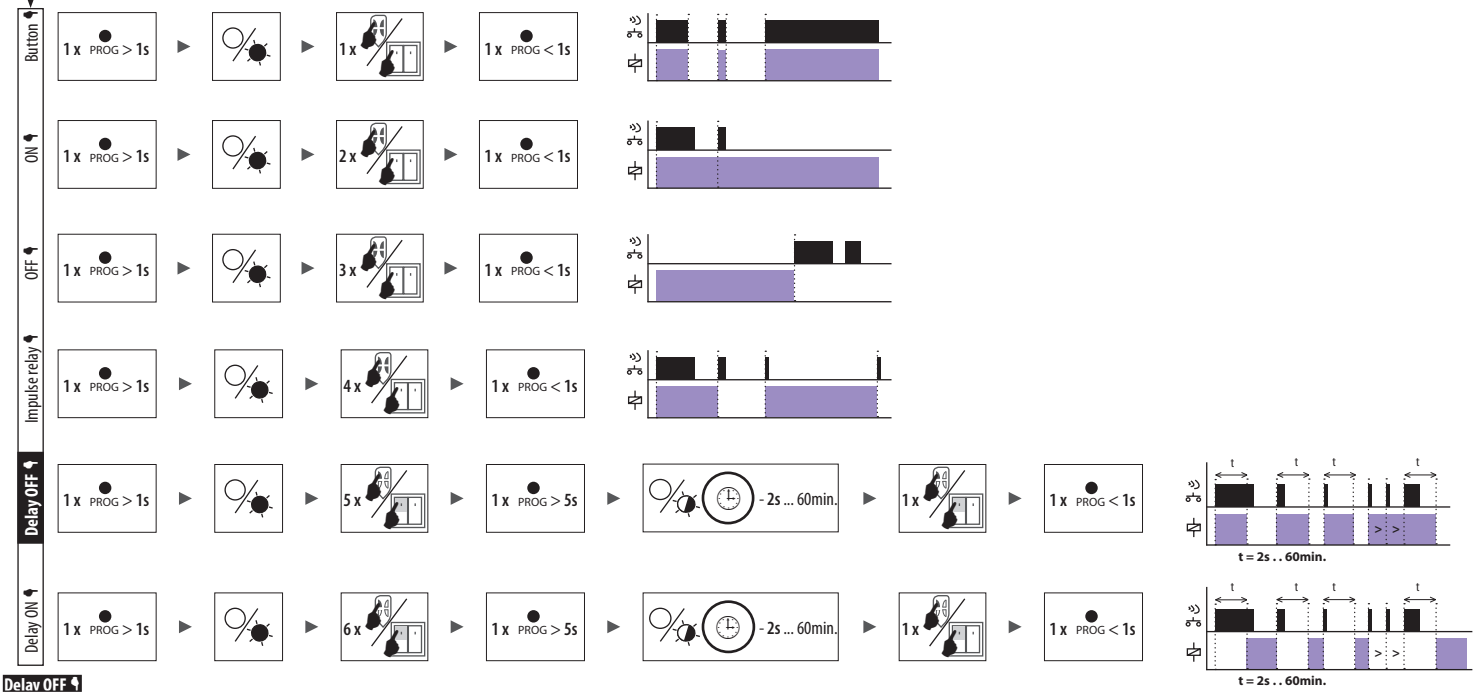


- version 1-module, 3 module



RFSA-62B





Delay OFF

Example programming for RFSA-62B receiver:
Channel selection is done by pressing the Prog. buttons for 1s.
After button release, LED is flashing indicating the output channel: red(1) or green(2). All other signals are indicated by corresponding color of LED for each channel.
Actuator RFSA-62B has two output channels each with 6 programming functions that are identical with features of RFSA-61B.

Example programming for RFSA-62B receiver with wireless wall switch button RFWB-40 / G:
Press Prog. button on the receiver RFSA-62B for a period of 1s to set corresponding receiver channel indicated by green(1) or red (2) LED. Press Prog. button for 3 seconds to enter programming mode (eg, green LED for channel 1 flashes every 1 second). Press the chosen button on the wireless switch as many times as is desired function. Press Prog. button on the receiver RFSA-62B for less than 1 second to save the and exit the programming mode (green LED will be off).