

Industrigatan 4 212 14 Malmö Sweden



Compatible



^{‡280}

4170,4171

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.

 $\overline{\mathbb{A}}$

Transmission of radiofrequency signals in various materials													
))))	60 - 90 % 80 - 95					HI-H-H-H-H-H-H-H-H-H-H-H-H-H-H-H-H-H-H-		FE					
				%		20 - 60 %	20 - 60 % 0 -		- 10 %	80 - 90 %			
Characteristics					Technical param	eters	RFDA-	11B	RFDA-71B	RFDEL-71B	RFDAG	-71B	
The Oasis & T	ouch compatible uses wireless	ation between transmitters	RF Touch and RF Pilot	Suply voltage:			230 V AC /50Hz			110 - 230V AC			
(wall-mounted of appliances, lighti	ontroller, keyring, motion det ng, electrical equipment, garaq	or openers, etc.) and recen d roll-up shutters.	vers to control home	Apparent input:			8.3 VA / $\cos \phi = 0.1$		1.1 VA		'A		
It enables you	to switch various devices on an	nding on the time of start or	your return. It allows	Loss input:			0.83W		0.8 W	1.2 W			
shutters, screens	and canopies. Using sensors, 1	trol system warns you of a	ny motion of persons	Supply voltage tole	erance:	2 vodičová c."	+10%/-15%		+10/-15 %	+10% /	-15%		
or fire in your ho It is ideal for i	ne. Istallation into existing building	nstructions as well as refurbi	ished houses, without	Output		5-VOUICOVE, S	5-VODICOVE, S NOLOO / 5-WIRED, WILLI NEOTRAL		4-V001C0VE, S NOLOO				
any need to chis	ay be installed directly into	a suitable mounting	Contactless:			2 x MOSFET			X				
- The RF Control	vers. ystem operates at 868 MHz.			Load capacity			250 W*		160 W*	x			
- All transmitters	are compatible with each othe	be combined with the prev	ious version of the RF	Resistive load:			1			х			
Warning: Actuat	ors without the OASIS & Touch	e designation are not comp	patible with RF Touch	Capacitive load:						X			
or RF Pilot units.	ID C .			I FD			×						
Transmitter desig	<u>115.</u>				ESL			X		✓ ✓	✓ X		
			Zero-potential analogous output,		ut/								
- is used for creat	roup of lights.		max. current:				Х		0 (1) -10V DC/ 10mA				
RFDA-11B: bas	c - 1 light scene , OFF function .			The choice of output voltage:		-	x			0-10V DC, 1-10V DC			
■RFDA-71B: mu	tifunction - 7 program function	nt light		Relay contact: Rated current:		-		X		16 A / AC1			
■ RFDEL-71B: Mu	Itifunction unit- 7 programmal	ns: 6 light function, ON / OF	F function	Switching power:				x		4000 VA / AC1			
select the type	of load, setting of min. brightn	-		Switching voltage:			х			250 V	250 V AC1		
Actuator w	ith analogue output 0(1)-10V			Mechanical life:			Х			3 x 10 ⁷			
RFDAC-71B: for continuous volt	continuous regulation of devic	ed with		Electrical life (AC1)	:	-	Х			0.7 x 10 ⁵			
- 7 program func	tions: 6 different light functions	unction.		By RF command by	transmitter:		868 MHz				868 MH7		
 output voltage button. Button 	node 0-10V or 1-10V selected I > 2s. After releasing the butto	the Prog flashes.		Range in open area	:		až 160 m				až / up to 200m		
indicating the c	utput mode:	hashesy		Min. programming distance:			20 mm				20 mm		
- the green LE - the red LED	D -0-10V • 1-10V			Minimum control	distance:		20 mm				20 mm		
All other signal	L		Button:			tažítka / huttan RDOC /ON/OEE)				tlačítko/button DBOC (ON/QEE)			
- mounting box t			- external:			x Ano							
Power			description		Neon:			X		Ne	Ne x		
supply	symbol				Other data					* •			
					Operation indication:			červená / red LED			červeno-zelená/red-green LED		
R			Classic or halogen bulb		Supply indication:	ture.		-15 ±50°C	X	-20 až ± 35 ℃	- <u>X</u> -15 +50 °C		
resistive	HAL. 230 V				Storage temperature:			-30 až +70°C		20 42 1 55 C	-13+30 C		
		+		Operating position:			libovolná / any			libovolná / any			
	│ 📥 📼]][[Coi	Coil transformer for low voltage halogen		Mounting:			volné na přívodních vodičích /			volné na přívodních vodičích /		
maucuve	HAL. 12-24 V	1	bulbs	bulbs				loose on connecting wires				loose on connecting wires	
ſ	1	1		Overvoltage catego	orv:					IP :	00		
capacitive		E	Electronic transformer for low voltage		Pollution degree:			2			2		
					Output leads :			3 x Ø 0.75 mm ²		4 x 0.75 mm ²		3x Ø 0.75mm ² , 2x Ø 2.5 mm ²	
	11	Τ		Length of leads:		90 mm		90 mm	90 mm				
LED			dimmable LED 230 V		Viniensions: Weight:			4	40 a		<u>49 x 49 x 21mm</u>		
		<u> </u>			Applicable standards:		1	40 y EN 60669, EN 300220 , EN 301489; směrnice/directive RTTE, NVč. 426/20			00Sb (směrnice/directive 1999/ES)		
ESL/ КЛЛ	Dimmable energy saving lamps			* 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. Aproximate value of maximal load is achieved by multiplication of loadability of dimmer and power factor connected to a light source.									
								ī ī		315			
Type of load mat. col			cos φ ≥ 0.95				(5a uncomponented		AC5h	312	AC7h	A(12	
RFDAC-71B AgSnO)2	ACI	ALZ	ALS	A		230V / 3A (690VA) do	0 100011	АСОД	AC/D	ACIZ	
16A ²			250V / 16A	250V / 5A	250V/3A		23UV / 3A (690V)	max C=14uF	1000W	X	250V / 3A	250V / 1A	
Type of load mat. contacts 3€+				\$			-(M)-	-(M)-			- <u></u>		
			AC13	AC14	AC15		DC1	DC3	DC5	DC12	DC13	DC14	
RFDAC-71B AgSn 16A		U ₂	х	250V/6A	250V / 6A		24V / 10A	24V / 3A	24V / 2A	24V / 6A	24V / ZA	x	

Control RFDEL-71B

RFDEL-71B

- Control with connected button:
- Short button push (<0.5s) 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 level
- 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

ETFORM OF A STATE AND A STATUS LED on the front panel of 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
- <u>Long-term overlaad;</u> 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

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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)



- 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



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- LED on receiver is flashing in 1s interval





press programmable button on receiver



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.rfcontrol.cz in / data / svetelne_zdroje_RFDSC.pdf **Operation modes of receivers** RFDA-11B; RFDA-71B; RFDEL-71B (1)RFDAC-71B Programming mode Change the input mode 1 x PROG 1s 1 x PROG > 1s 1 x 🖓 📺 1s - max. 4min. Timing mode / Manual control Deleting one transceiver 1 x PROG < 1s 1 x PROG > 55 1 Programming mode 1 x PROG > 5s Delete all 1 x PROG 3s 1 x / 1s - max. 4min. Timing mode / 1 x prog > 8s 🍎 Deleting one transceiver 🔴 0.5s Manual control 1 x PROG > 55 1 x PROG > 5s 1 x PROG < 1s Delete all 1 x prog > 8s 3 x (0 Ο 1 x .5s

Connection











Example: Programming of receiver RFDA-11B with wireless switch RFWB-40/G or key-chain RF KEY

Press of programming button on receiver RFDA-11B for 1second will activate receiver RFDA-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 (regulation of intensity). Second control position –open, will be assigned automatically (on the same half of wireless switch/ key-chain).

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





Press and hold the Prog button for 1s to select the output voltage mode 0-10V or 1-10V.

After releasing the button, the LED flashes, indicating the output mode: the green LED - 0-10V, the red LED - 1-10V. 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 0-10V; the green LED flashes. Press and hold the Prog button for 3s 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 1s 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 5mins 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 3s 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 light 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 moreory. 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).

