



RFSTI-11B

EN Switch unit with a temperature sensor

RS Prekidačka jedinica sa spoljašnjim senzorom temperature



iNELS
RF Control

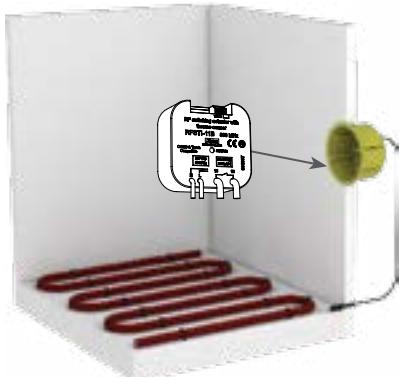
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Characteristics / Karakteristike

- The temperature unit measures the temperature by external sensor, and controls the heating circuit (electric underfloor heating, air conditioning, boiler, etc.).
- These can be combined with system units: smart RF box eLAN-RF, wireless controller RFTC-50/G or touch unit RF Touch.
- It measures temperature in a range of -20..+50°C and sends it to the system unit in regular 5-min. intervals. It sends a signal upon sudden temperature change.
- Setting the heat/cool function, hysteresis and offset is performed in the system unit or application.
- The BOX design lets you mount it right in an installation box, a ceiling or controlled appliance cover.
- It enables connection of the switched load up to 16A (4.000W).
- For components labelled as iNELS RF Control² (RFIO²), it is possible to set the repeater function via the RFAF/USB service device.
- Range up to 160 m (in open space), if the signal is insufficient between the controller and unit, use the signal repeater RFRP-20 or protocol component RFIO² that support this feature.
- Communication frequency with bidirectional protocol iNELS RF Control² (RFIO²).
- External sensor TC (0 ..+70 °C) or TZ (-40 ..+125 °C) for length of 0.11 m, 3 m, 6 m, 12 m.
- Element temperatue, meri temperaturu spoljnim senzorom i istovremeno kontroliše krug grejanja (električno podno grejanja, klima uređaj, bojler...).
- Može se kombinovati sa sistemskim elementima: eLAN-RF-pametna RF kutija, bežični kontroler RFTC-50/G ili kontaktnu jedinicu RF Touch.
- Meri temperaturu u rasponu od -20..+50 °C i na svakih 5 minuta salje sistemskej jedinicu podatke. Salje signal nakon nagle promene temperature.
- Podešavanje grejanja/hlađenja, histereze i pomeranja vrši na na sistemskoj jedinici ili putem aplikacije.
- Verzija BOX nudi montažu direktno u instalacionu kutiju, plafon ili poklopac kontrolisanog uređaja.
- Omogućava povezivanje prekidačkog opterećenja do 16 A (4 000 W).
- Za elemente označene kao iNELS RF Control² (RFIO²) moguće je podešiti funkciju repetitora putem RFAF/USB servisnog uređaja.
- Domet do 160m (na otvorenom), u slučaju nedovoljnog signala između kontrolera i jedinice, koristite RFRP-20 repetitor signala ili elemente sa RFIO2 protokolom koji podržavaju ovu funkciju.
- Frekvencija komunikacije sa dvosmernim iNELS RF Control² (RFIO²) protokolom.
- Spoljašnji senzor TC (0 do +70 °C) ili TZ (-40 to +125 °C) za dužine od 0,11m, 3 m, 6 m, 12 m.

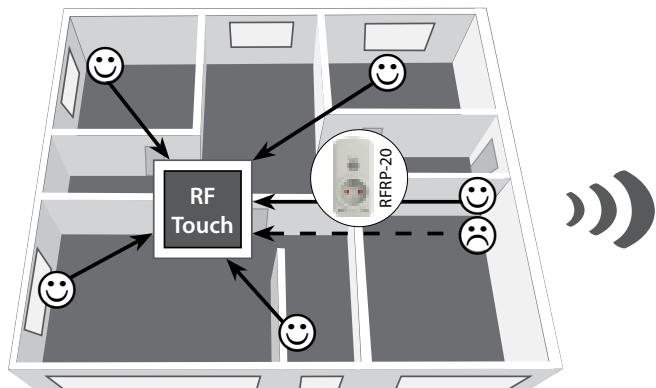
Assembly / Montaža

mounting in an installation box
montaža u instalacionu kutiju



Avoid rapid temperature changes, direct sunlight and excessive moisture. The temperature units should not be located near windows or heating equipment, etc., which could affect the internal temperature sensor.

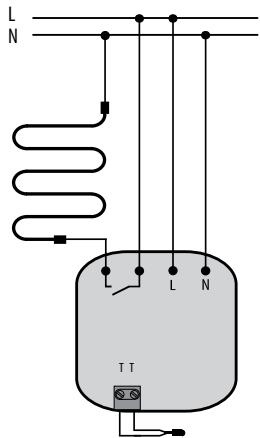
Radio frequency signal penetration through various construction materials /



For more information, see "Installation manual iNELS RF Control":
<http://www.elkoep.com/catalogs-and-brochures>

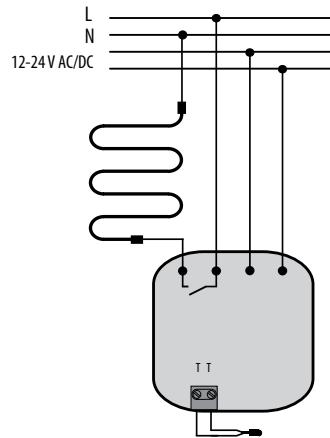
Connection / Konekcija

RFSTI-11B/230V
RFSTI-11B/120V



External sensor /
Spoljašnji senzor

RFSTI-11B/24V



External sensor /
Spoljašnji senzor

Ne izlažite ga naglim promenama temperature, direktnoj sunčevoj svjetlosti i prekomernoj vlažnosti. Postavite temperaturne elemente tako da ne budu blizu prozora, uređaja za grejanje itd., što može uticati na unutrašnji temperaturni senzor.

Prenos radio frekvencijskih signala preko različitih građevinskih materijala

60 - 90 %	80 - 95 %	20 - 60 %	0 - 10 %	80- 90 %
brickwalls	wooden structures with plaster boards	reinforced concrete	metal partitions	common glass
zid od cigle	drvena konstrukcija sa gipsanim pločama	armirani beton	metalne pregrade	staklo

Za više informacija, pogledati „Instalaciono uputstvo iNELS RF kontrol“:
<https://www.elkoep.rs/preuzimanja>



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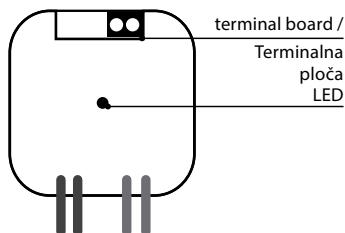
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Indication, manual control / Indikacije, ručna kontrola



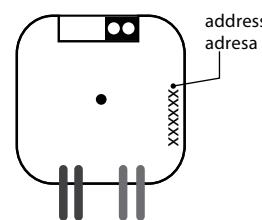
- Terminal board - connection for an external temperature sensor.
- LED STATUS - indication of the device status.
- Terminalna ploča - priključak za spoljni temperaturni senzor.
- LED STATUS - indikacija stanja uređaja.

Programming with the RF control unit RF Touch (RFTC-50/G, eLAN-RF) /

Programiranje sa RF kontrolnom jedinicom RF Touch (RFTC-50/G, eLAN-RF)

Description of function / Opis funkcije

The external sensor measures temperature and sends the signal to RF Touch (RFTC-50/G, eLAN-RF). Spoljašnji senzor meri temperaturu i šalje signal RF Touch (RFTC-50/G, eLAN-RF).



Programming / Programiranje

An address listed on the front of the actuator is used for programming and controlling the temperature actuator RFSTI-11B by RF Touch (RFTC-50/G, eLAN-RF).

Adresa navedena na prednjoj strani aktuatora koristi se za programiranje i upravljanje aktuatorom temperature RFSTI-11B pomoću RF Touch (RFTC-50 / G, eLAN-RF).

Technical parameters / Tehnički parametri

	RFSTI-11B/230V	RFSTI-11B/120V	RFSTI-11B/24V
Supply voltage:	Napon napajanja:	230 V AC / 50-60 Hz	120 V AC / 60Hz
Apparent input:	Prividna snaga ulaza:	7 VA / cos φ = 0.1	7 VA / cos φ = 0.1
Dissipated power:	Frekvencija napajanja:	0.7 W	0.7 W
Supply voltage tolerance:	Tolerancija napajanja:	+10%; -15%	
Temperature measurement input:	Ulaz za merenje temperature:	1x external TZ/TC temperature sensor input / 1x izlazni TZ/TC kontakt temperaturnog senzora	
Temp. measurement range and accuracy:	Opseg i tačnost merenja temperature:	-20 ... + 50 °C; 0.5°C of the range / u opsegu	
Output	Izlazi		
Number of contacts:	Broj kontakata:	1x switching / prelaz (AgSnO ₂)	
Rated current:	Nominalna struja:	16 A / AC1	
Switching power:	Prekidačka snaga:	4000 VA / AC1, 384 W / DC	
Peak current:	Maksimalna snaga:	30 A / <3 s	
Switching voltage:	Prekidački napon:	250 V AC1 / 24 V DC	
Min. DC switching power:	Min. DC preklopna snaga:	500 mW	
Mechanical service life:	Mehanički radni vek:	3x10 ⁷	
Electrical service life (AC1):	Električni radni vek (AC1):	0.7x10 ⁵	
Control	Kontrola		
RF, by command from transmitter:	Frekvencija:	866 MHz, 868 MHz, 916 MHz	
Range:	Domet:	up to / do 160 m	
Other data	Ostali podaci		
Operating temperature:	Radna temperatura:	-15...+ 50 °C	
Status indication:	Indikacija statusa:	red / crvena LED	
Operating position:	Pozicija rada:	any / bilo gde	
Mounting:	Montaža:	free at lead-in wires / na dovodnim žicama	
Protection:	Stepen zaštite:	IP 30	
Overvoltage category:	Kategorija prepona:	III.	
Contamination degree:	Stepen zagađenja:	2	
Outlets (CY wire, cross-section, length):	Izlazi(CY žice, poprečni presek,dužina):	2 x 0.75 mm ² , 2 x 2.5 mm ² , 90 mm	
Dimensions:	Dimenzije:	49 x 49 x 21 mm	
Weight:	Težina:	46 g	
Related standards:	Standardi:	EN 60669, EN 300220, EN 301489 R&TTE Directive, Order. No 426/2000 Coll. (Directive 1999/EC)	

Temperaturesensorinput is at the supply voltage potential.

Attention:
When you instal iNELS RF Control system, you have to keep minimal distance 1 cm between each units.
Between the individual commands must be an interval of at least 1s.

Ulaz senzora temperature je na potencijalu napona napajanja.

Upozorenje:
Kada instalirate iNELS RF Control sistem, mora se poštovati minimalno rastojanje od 1cm između pojedinačnih elemenata.
Između pojedinačnih komandi potrebno je da prođe interval od 1s.



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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. 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.

Upozorenje

Uputstva za upotrebu su namenjena za ugradnju kao i za korisnike proizvoda. Uputstva se uvek dobijaju uz proizvod. Instalaciju i povezivanje smiju da obavljaju samo kvalifikovane osobe, u skladu sa svim važećim propisima, koja je detaljno upoznata sa ovim uputstvom i funkcijama komponenti. Funkcija elemenata takođe zavisi od prethodnog načina transporta, skladištenja i rukovanja. Ako u bilo kom slučaju primelite nekakve znakove oštećenja, deformacije, kvara ili ako neki deo nedostaje, nemojte ugradivati uređaj, prijavite to prodavcu. Nakon što komponenti istekle životni vek, potrebno je tretirati je kao elektronski otpad. Pre započinjanja instalacije potrebno je prvo se uveriti da su žice, povezani delovi ili terminali bez napona. Tokom instalacije i održavanja moraju se poštovati sigurnosni propisi, standardi, direktive i profesionalne odredbe za rad sa električnom opremom. Ne dodirujte elemente pod naponom golim rukama, zbog mogućnosti stujnog udara i rizika od smrти. Zbog propustljivosti RF signala, obratiti pažnju na pravilno postavljanje RF elemenata u zgradama gde će se izvoditi ugradnja. RF kontrola je namenjena samo za unutrašnju ugradnju. Elementi nisu namenjeni za spoljašnju ugradnju kao i za ugradnju u vlažne prostorije, ne smiju se ugraditi u metalne ormane kao ni u plastične ormane sa metalnim vratima iz razloga što će to sprieti prenos radio frekvenčnog signala. RF kontrola se ne prepitujuje za kontrolu uređaja koji pružaju životne funkcije kao i za kontrolu opasne opreme kao što su pumpe, električni grejači bez termostata, liftova, dizalica itd. Iz razloga što prenos radio frekvenčnog signala može biti preklopnen, ometen, baterija predajnika se može isprazniti i na taj način daljinski upravljač može biti onemogućen.