Manuals+ — User Manuals Simplified.

inels RFSTI-11B-SL Switch Unit with Temperature Sensor Instruction Manual
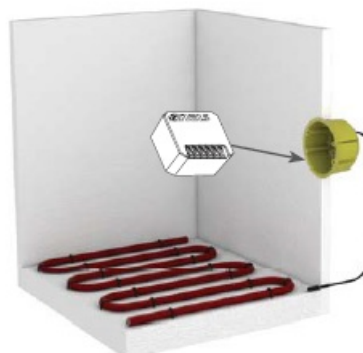
Contents

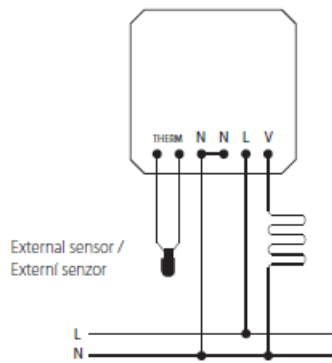**inels RFSTI-11B-SL Switch Unit with Temperature Sensor**

Characteristics

- The temperature component measures the temperature with an external sensor and at the same time controls the heating circuit (electric underfloor heating, air conditioning, boiler…).
- They can be combined with Detectors, Controllers or iNELS RF Control system elements.
- It measures the temperature in the range of -20 to +50 °C and sends it to the system component at regular 5 min. intervals. When the temperature changes suddenly, it sends a signal.
- Setting the function of heating/cooling, hysteresis and off set is carried out in the system component or application.
- Allows connection of switched load up to 8 A (2,000 W).
- Range up to 200 m (in open air), in case of insufficient signal between the controller and the unit, use the RFRP-20N signal repeater or RFIO2 protocol devices that support this function.
- Communication with the bidirectional protocol RFIO2.
- The BOX version offers installation directly into the installation box, ceiling or cover of the controlled appliance. Easy to install thanks to screwless clamps.
- External sensor TC (-20 to +80 °C) or TZ (-40 to +125 °C) with a length of 3 m, 6 m, 12 m.

Assembly

Connection
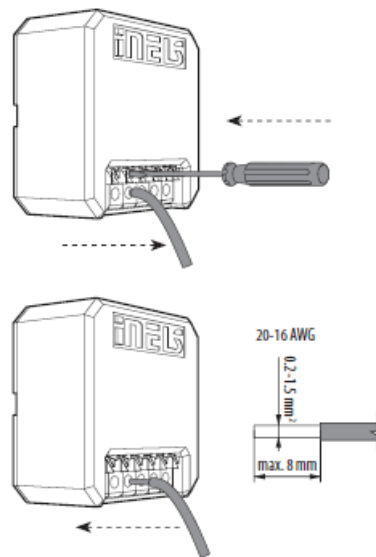
External sensor /
Externí senzor

Screwless terminals

20-16 AWG

0.2-1.5 mm²

max. 8 mm
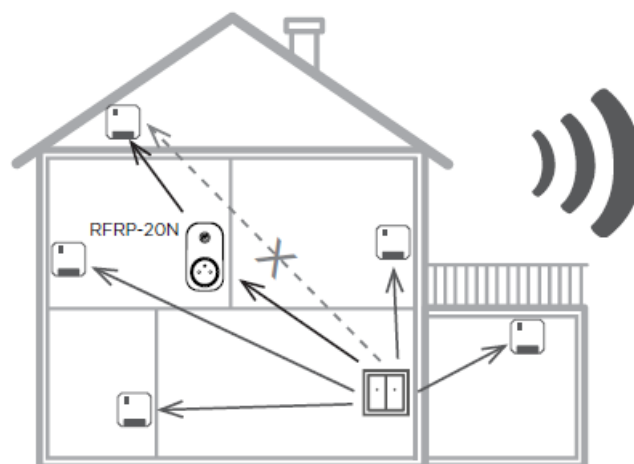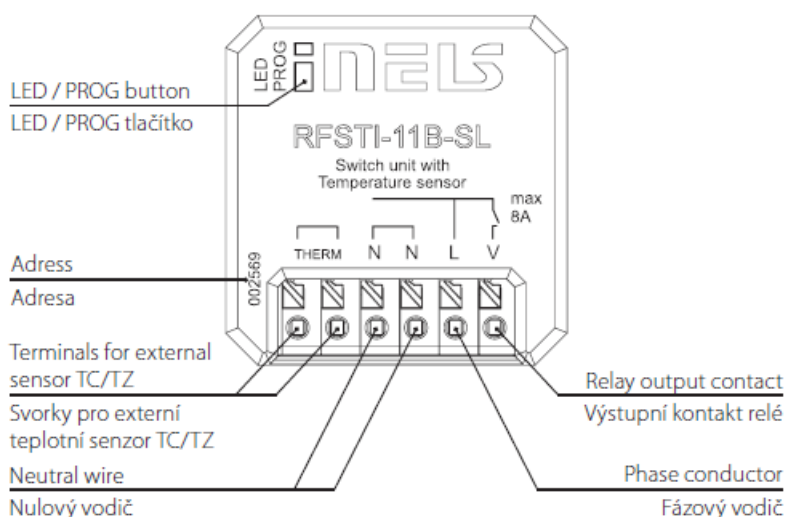
Avoid rapid temperature changes, direct sunlight and excessive moisture. The temperature units should not be located near windows or heating equipment, etc., which could affect the internal temperature sensor.

Radio frequency signal penetration through various construction materials

RFRP-20N

1.	2.	3.	4.	5.
60 – 90 %	80 – 95 %	20 – 60 %	0 – 10 %	80- 90 %
brick walls	wooden structures with plaster boards	reinforced concrete	metal partitions	common glass

Indication, manual control

Pressing the button activates the output for 10 seconds. At this point, it is possible to check the wiring of the electrical circuit, without the need for assignment to the system.

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

- **Description of function**
  - The external sensor measures temperature and sends the signal to RF Touch (RFTC-50/G, eLAN-RF).
- **Programming**
  - An address listed on the front of the actuator is used for programming and controlling the temperature actuator RFSTI-11B-SL by RF Touch (RFTC-50/G, eLAN-RF).

Technical parameters

Supply voltage:	230 V AC
Supply voltage frequency:	50-60 Hz
Apparent input:	7 VA / cos φ = 0.1
Dissipated power:	0.7 W
Supply voltage tolerance:	+10 %; -15 %
Temperature measurement input:	-20 až +50 °C
Temp. measurement range and accuracy:	0.5 °C of the range / z rozsahu

Output

Number of contacts:	1x switching / spínací
Rated current:	8 A / AC1
Switching power:	2000 VA / AC1
Peak current:	10 A / <3 s
Switching voltage:	250 V AC1
Mechanical service life:	1×107
Electrical service life (AC1):	1×105

Control

Wireless:	25 chanels
Communication protocol:	RFIO2
Frequency:	866–922 MHz
Function repeater:	yes
Manual control:	button PROG (ON/OFF)
Range:	up to200 m

Other data

Operating temperature:	-15 až + 50 °C
Operating position:	any
Mounting:	free at lead-in wires
Protection:	IP40
Overvoltage category:	III.
Contamination degree:	2
Connection:	Screwless terminals
Dimensions:	43 x 44 x 22 mm
Weight:	31g
Related standards:	EN 60730, EN 63044, EN 300 220, EN 301 489

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 fl at etc. and thus disable remote control.
ELKO EP declares that the RFSG type of equipment complies with Directives 2014/53/EU, 2011/65/EU, 2015/863/EU and 2014/35/EU. The full
EU Declaration of Conformity is at: **https://www.elkoep.com/wireless-contact-converter-230v—rfsg-1m**
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Documents / Resources

	inels RFSTI-11B-SL Switch Unit with Temperature Sensor [pdf] Instruction Manual RFSTI-11B-SL, Switch Unit with Temperature Sensor, RFSTI-11B-SL Switch Unit with Temperature Sensor
	inELs RFSTI-11B-SL Switch Unit with Temperature Sensor [pdf] Installation Guide RFSTI-11B-SL Switch Unit with Temperature Sensor, RFSTI-11B-SL, RFSTI-11B-SL Switch Unit, Switch Unit, Switch Unit with Temperature Sensor, Temperature Sensor, Temperature Sensor Switch Unit
	iNELS RFSTI-11B-SL Switch Unit with Temperature Sensor [pdf] Instruction Manual RFSTI-11B-SL Switch Unit with Temperature Sensor, RFSTI-11B-SL, Switch Unit with Temperature Sensor, Temperature Sensor, Sensor, Switch Unit, Unit

References

- *E* **ELKO EP - Global relay manufacturer • ELKO EP**
- *E* **Catalogs and brochures • ELKO EP**
- *E* **ELKO EP - Výrobce elektronických přístrojů • ELKO EP s.r.o**
- *E* **ELKO EP - Hersteller von elektronischen Geräten • ELKO EP Germany**
- *E* **ElkoEP - Fabricante de dispositivos electrónicos • ELKO EP ESPAÑA**
- *E* **Input contact converter RFSG-1M • ELKO EP**
- *E* **Katalogy • ELKO EP s.r.o**