

Characteristics / Karakteristike

- The flood detector is used to detect water leakage - the activation occurs the moment the flooding of the contacts located on the underside of the detector occurs.
- Upon detecting water, the flood detector immediately sends a signal to the switched unit, which further switches on a pump, GSM gate or closes a pipe valve.
- It brings a quick solution to learn about unwanted flooding in your bathroom or kitchen, to which you can immediately respond with a paired actuator. Which can close, for example, the water supply to a flowing washing machine.
- Flood detection is signalled by vibration, optical and acoustic signalling.
- Low battery signaling 5 times by flashing the LED every 15 minutes or a warning in the iHC application.
- Range up to 160m (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.

- Detektor za poplavu se koristi za detektovanje curenja vode - aktiviranje se dogodi kada dođe do plavljenja kontakata koji se nalaze sa donje strane detektora.
- Kada detektuje vodu automatski šalje signal prekidačkoj jedinici, koja dalje isključuje pumpu, GSM kapiju ili zatvara ventil na cevi.
- Donosi brzo rešenje za učenje o neželjenim poplavama u vašem kupatilu ili kuhinji, na koje možete odmah odgovoriti uparenim aktuatorom. Koji mogu zatvoriti, na primer, dovod vode tekućoj mašini za pranje veša.
- Otkrivanje poplave signalizira se optičkim i zvučnim signalima.
- Signalizacija slabe baterije pet puta trepcući LED svake 15 minuta ili u obliku iHC aplikacije.
- Domet do 160 m (na otvorenom); ako je signal slab između kontrolera i jedinice, koristiti ponavljač signala RFRP-20 ili komponentu protokola RFIO² koja podržava ovaj sistem.

Placement recommendations / Preporuke za montažu

After inserting the battery, pairing with the actuator and setting the required alarm, place the detector on a flat, non-conductive surface where flooding is expected. CAUTION: The flood detector detects only the presence of liquid that has reached the sensor.

We recommend placing the detector in a visible place.

The detector is intended for indoor use only.

Nakon postavljanja baterije, uparivanja sa aktuatorom i podešavanja potrebne signalizacije, postavite detektor na ravnu, neprovodljivu površinu tamo gde se očekuje poplava. OPREZ: detektor poplave otkriva samo prisustvo tečnosti koja je dospela do senzora.

Preporučujemo postavljanje detektora na vidljivo mesto.
Detektor je namenjen samo za unutrašnju upotrebu.

Conductivity of liquids / Povodljivost tečnosti

Liquids suitable for detection / Tečnosti pogodne za detektovanje

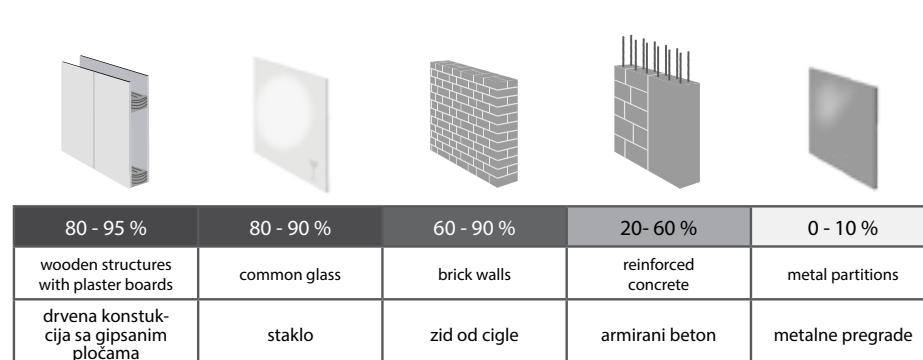
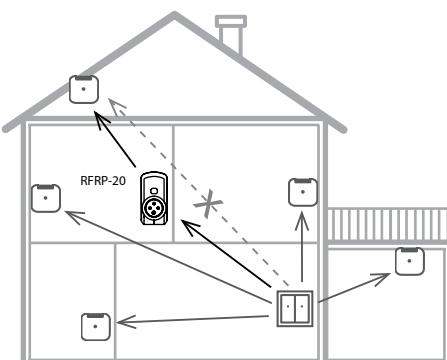
| Type of liquid | Vrste tečnosti | Resistivity / Otpornost [Ωcm]* |
|----------------------|-----------------------|--------------------------------|
| Drinking water | Pijača voda | 5-10 kΩ |
| Well water | Bunarska voda | 2-5 kΩ |
| River water | Rečna voda | 2-15 kΩ |
| Rain water | kišnica | 15-25 kΩ |
| Waste water | Otpadne vode | 0.5-2 kΩ |
| Seawater | morska voda | ~0.03 kΩ |
| Salt water | Slana voda | ~2.2 kΩ |
| Natural / hard water | Prirodna/ tvrdna voda | ~5 kΩ |
| Chlorinated water | Hlorisana voda | ~5 kΩ |
| Condensed water | Kondenzovana voda | ~18 kΩ |
| Milk | Mleko | ~1 kΩ |
| Milk serum | Mlečni serum | ~1 kΩ |
| Fruit juices | Voćni sokovi | ~1 kΩ |
| Vegetable Juices | Sokovi od povrća | ~1 kΩ |
| Broths | Bujon | ~1 kΩ |
| Wine | Vino | ~2.2 kΩ |
| Beer | Pivo | ~2.2 kΩ |
| Coffee | Kafa | ~2.2 kΩ |
| Soap foam | Tečni sapun | ~18 kΩ |

Inadmissible liquids / Neprihvatljive tečnosti

- | | |
|---|---|
| <ul style="list-style-type: none"> Demineralised water Deionised water Bourbon Gasoline Oil Liquid gases Paraffin Ethylene glycol Paints High alcohol-content liquids | <ul style="list-style-type: none"> Deminerálizovaná voda Dejonizáovaná voda Burbon Gasoline Oil Liquid gases Paraffin Ethylene glycol Paints High alcohol-content liquids |
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Radio frequency signal penetration through various construction materials /

Prenos radio frekvencijskih signala kroz razne građevinske materijale



ELKO EP declares that the RFSF-100 type of radio equipment complies with Directive 2014/53 / EU. The full EU Declaration of Conformity is available at: www.elkoep.com/flood-detector-rfsf-100

Ovim putem ELKO EP, izjavljuje da je tip radio opreme RFSF-100 u skladu sa direktivom 2014/53 / EU. Pun tekst Deklaracije EU o usklađenosti dostupan je na sledećim web lokacijama: www.elkoep.rs/flood-detector-rfsf-100



Compatibility / Kompatibilnost

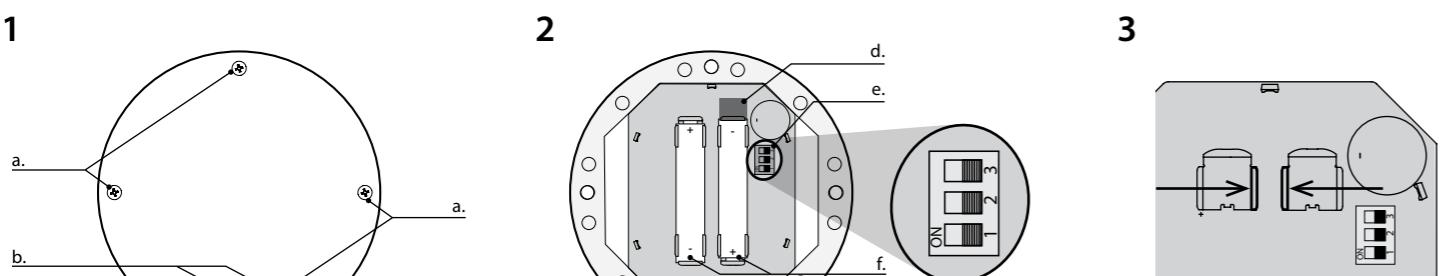
The detector is compatible with:

- switching components
all switching components of the RF Control system (except blinds), which are marked with the RFIO2 communication protocol, eg RFSA-11B, RFSA-66M, RFUS-61, RFSC-61 ...
- system components
eLAN-RF, RF Touch, central units of the iNELS BUS system (CU3-0xM)

Detektor je kompatibilan sa:

- preklopni elementi
svi preklopni elementi RF RF sistema (osim roleta), koji su obeleženi RFIO2 komunikacijskim protokolom, npr. RFSA-11B, RFSA-66M, RFUS-61, RFSC-61 ...
- sistemski elementi
eLAN-RF, RF Touch, centralne jedinice sistema iNELS BUS (CU3-0xM)

Indication, settings / Indikacije, podešavanja



- a. Screw
- b. Probes pads
- c. Seal
- d. Insulating foil
- e. DIP
- f. Battery

Before installing, open the detector cover with a screwdriver (Fig. 1). The adjustment settings are located inside the detector. Remove the insulating foil, check the correct placement of the battery.

Indication

- Activation of the device: after removing the insulating foil or inserting the batteries, the blue LED lights up for 2 seconds and at the same time a message is sent to the device.
- Alarm: when the contacts are flooded, the detector sends a message to the paired component and at the same time signals an alarm condition.
Alarm signaling: 1x second LED flash alternates with 1x "beep" at second intervals.
Alarm signaling when the battery is low: at second intervals, the LED flashes alternately with 2x "beeps".
- Alarm termination: after a few seconds of the flood drop (interruption of the connection of the sensing contacts) it sends a message to the paired component and switches off the signaling.
- Weak batteries: the detector flashes once and at a short time interval flashes 4 more times, this signaling is repeated in 15 minutes. interval until the batteries are completely discharged.

DIP switch settings

- Position 1:
OFF - normal function, ie: in case of flooding, the (relay) contact of the assigned component switches
ON - negated function, ie: during flooding it opens the (relay) contact of the assigned component, at the end of flooding the contact is closed
- Position 2:
OFF - for pairing with a switching component - does not periodically send information about the current status
ON - for pairing with a system component (eLAN-RF, RF Touch, iNELS control panel) - sends a status message periodically after 120 minutes and when the status changes (flooding / end of flooding)
- Position 3:
OFF - switched off sound signaling when contacts are flooded
ON - on audible alarm when contacts are flooded

Save DIP switch settings

Set the DIP as required. Insert the batteries into the battery holder (observe the polarity). The blue LED on the detector lights up for 2 seconds - this saves the DIP switch settings.

Note: If the LED does not light up after inserting the batteries, you must reset the detector, ie: remove the batteries and connect the inside of the battery holders with light pressure (Fig. 3) and then re-insert the batteries.

Safe handling / Bezbednost rukovanja uređajem

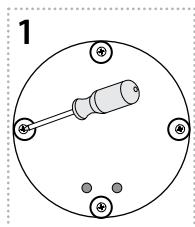


When handling a device unboxed it is important to avoid contact with liquids.
Avoid unnecessary contact with the components of the device.

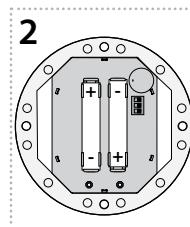
Kada rukujete uređajem koji je van kutije, važno je izbegavati kontakt sa tečnostima.
Nikada ne postavljajte uređaj na provodne jastučiće ili predmete, izbegavajte nepotreban kontakt sa komponentama uređaja.



Replacement of a battery / Zamena baterije

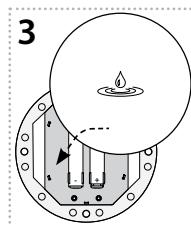


Use a screwdriver to open the detector.
Otvorite detektor pomoću odvijača.



Replace the batteries and check the correct location (when the batteries are inserted, the blue LED lights up for 2 seconds and a message is sent to the device at the same time).

Zamenite baterije i proverite tačno mesto (kada su baterije umetnute, plava LED lampica svetli 2 sekunde i elementu se istovremeno šalje poruka).



Replace the seal, attach the front cover - make sure the correct location. Screw in, tighten the screws to maintain IP protection.

Postavite zaptivku, pričvrstite prednji poklopac - uverite se da je u ispravnom položaju. Uvrnite, pritegnite zavrtnje da biste održali IP zaštitu.

Notice:

Only use batteries designed for this product correctly inserted in the device! Immediately replace weak batteries with new ones. Do not use new and used batteries together. If necessary, clean the battery and contacts prior to using. Avoid the shorting of batteries! Do not dismantle batteries, do not charge them and protect them from extreme heating - danger of leakage! Upon contact with acid, immediately rinse the affected area with a stream of water and seek medical attention. Keep batteries out of the reach of children. Batteries must be recycled or returned to an appropriate location (e.g. collection container) in accordance with local legal provisions.

Upozorenje:

Koristite samo baterije predviđene za ovaj proizvod, pravilno postavljena u uređaj! Ne koristite punjive baterije! Slabe baterije odmah zamenite novim. Ne mešajte nove i polovne baterije. Ako je potrebno, pre upotrebe očistite bateriju i kontakte. Izbegavajte kratki spoj baterija! Nemojte rastavljati, puniti ili štititi baterije od ekstremne toplosti - rizik od curenja! U slučaju kontakta sa kiselinom, odmah isprati sa puno vode i potražiti lekarski savet. Držite baterije van domaća dece. Baterije se moraju reciklirati ili vratiti na odgovarajuće mesto (npr. Kontejneri za sakupljanje) u skladu sa lokalnim propisima.

Technical parameters / Tehnički parametri

| Power supply | Napajanje | |
|---|---|---|
| Battery power: | Napajanje baterije: | 2x 1.5 V AAA batteries / 2x baterije 1.5 V AAA |
| Battery life by frequency 1x 12 hours: | Trajanje baterije za učestalost upotrebe 1x 12 sati: | 3 years / 3 godine |
| Setting | Podešavanja | |
| Alarm Detection: | Dekcija alarma: | optical and audible alarm / optički ili zvučni alarm |
| Battery status view: | Pregled statusa baterije: | low battery is indicated by 5 flashes every 15 minutes. or displayed in the system component / prazna baterija se označava sa 5 bliceva svakih 15 minuta ili prikazom u sistemskom elementu. |
| Acoustic signal: | Zvučni signal: | greater than 45 dB / 1m / veći než 45 dB / 1m |
| Detection | Detekcije | |
| Sensor: | Senzor: | contacts for flooding / kontakti za poplave |
| Detection principle: | Princip detektovanja: | contact between the sensor sensed liquid / kontakt između senzora osjetljive tečnosti |
| Response Time: | Vreme odziva: | 2 s after connecting the scanning contacts / 2 s nakon povezivanja kontakta za skeniranje |
| Measurement accuracy: | Preciznost merenja: | 99.8 % |
| Sensitivity: | Osetljivost: | in the range / u opsegu 0 - 170 kΩ |
| Control | Kontrola | |
| Communication protocol: | Komunikacijski protokol: | RFIO |
| Frequency: | Frekvencija: | 866 - 922 MHz |
| Repeater function: | Funkcija repetitora: | no / ne |
| Signal transmission method: | Metoda prenosa signala: | unidirectionally addressed message / jednosmerno adresirana poruka |
| Range: | Domet: | in open space up to 160 m / na otvorenom prostoru do 160 m |
| Other parameters | Ostali podaci | |
| Working temperature: | Radna temperatura: | 0 .. +50°C (Pay attention to the operating temperature of batteries) / (džbát na pracovní teplotu baterii) |
| Storage temperature: | Temperatura skladištenja: | -20 .. +60°C |
| Operation position: | Pozicija rada: | capture contacts for flooding downwards / pozicioniranje kontakta za poplavu nadole |
| Mounting: | Montaža: | loose / labava |
| Protection degree: | Stepen zaštite: | IP62 |
| Dimension: | Dimenzije: | Ø 89 x 23 mm |
| Weight: | Težina: | 92 g |

Attention:

When you instal iNELS RF Control system, you have to keep minimal distance 1 cm between each units.

Upozorenje:

Kada instalirate iNELS RF Control sistem, mora se poštovati minimalno rastojanje od 1cm između pojedinih elemenata.

Warning / Upozorenje

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 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 must not be used 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.

Uputstva za upotrebu su namenjena za ugradnju kao i za korisnike proizvoda. Uputstva se uvek dobijaju uz proizvod. Instalaciju i povezivanje smeju 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 primetite nekake znakove oštećenja, deformacije, kvara ili ako neki deo nedostaje, nemojte ugraditi uređaj, prijavite je proizvođaču. 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 postaviti sigurnosni propisi, standardi, direktive i profesionalne odredbe za rad sa električnom opremom. Ne dodirujte elemente pod naponom golim рукама, zbog mogućnosti stujnog udara i rizika od smrти. Zbog propustljivosti RF signala, obratiti pažnju na pravilno postavljanje RF elemenata u zgradama gdje 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 ormance kao ni u plastične ormance sa metalnim vratima iz razloga što će to sprečiti 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, dizalice itd. iz razloga što prenos radio frekvenčnog signala može biti preklopjen, ometen, baterija predajnika se može isprazniti i na taj način daljinski upravljač može biti onemogućen.