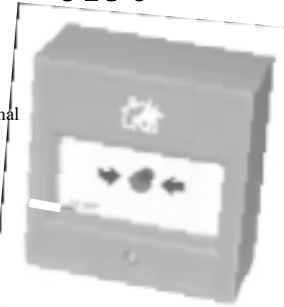


# ADDRESSABLE MANUAL CALL POINT C/W SURFACE MOUNTING BOX



# ADRESNI RUČNI PROTIVPOŽARNI JAVLJAČ

## 6150



## 1. INTRODUCTION

The 6150 Addressable Manual Call Point is a component part of FS6000 fire alarm system. It is manually operated to deliver a fire condition alarm signal to a fire control panel. By the detector's specified address the exact place of the signal delivered is located.

## 2. STRUCTURE AND FUNCTIONING

### 2.1. Structure

Detector's layout is seen on the front page. Details of the structure of the 6150 can be found on Fig.1. The 6150 consists of a surface mounting box (pos.1), a carrier unit (pos. 2), a cover (pos. 3), a glass (pos.4), a test key (pos.6).

There are four holes for wall mounting and a cable entrance located on the rear of the base. The carrier unit consists of a carrier, microswitch, a circuit board and a partition. LED indicator, current limiting resistors, electronic circuit which forms signal to the address, dip switches for address assignment and a connecting terminal are mounted on the circuit board.

The partition, fixed to the carrier unit closes the microswitch and the circuit board. The carrier unit (pos.2) is connected to the base by means of two screws (pos.5). The glass is placed in the partition's groove so it closes the microswitch and retains the circuit open. The manual call point's cover is fixed to the carrier unit by means of a screw. A sticker with a relevant graphic image is placed on the glass, indicating the exact point of breaking. The label for the address number (pos.8) is placed on the rear side of the carrier unit (pos.2).

### 2.2. Functioning

When a fire condition arises in the protected area the cover glass is to be pressed strongly. As a result the glass breaks and releases the microswitch. The circuit closes allowing current to flow at a value dependant on the resistor's values and the operating voltage values (typical for the specific type of the fire control panel). An alarm signal for a fire condition is delivered to the fire control panel. The LED illuminates to show activation.

To reset the 6150 remove the front cover and replace the activation glass.

To assign an address number use the DIP switches and follow the instructions set in Appendix 9 of FS6000 Fire Control Panel Manual Instructions.

Detectors addressing is completed by the fire control panel via specialized communication protocol.

## 3. PREPARING THE 6150 FOR OPERATION

3.1. Unpack the delivery and check for its completeness.

3.2. Remove the cover by unscrewing the supporting elements.

3.3. Remove the carrier unit (pos.2) and the glass (pos.4) after unscrewing.

3.4. Feed the connection cables through the rear cable hole of the back box. Fix the back box to a flat wall at a height of 1.2 – 1.5 m using appropriate fixings.

3.5. Connect the cables from the fire alarm panel to the 6150s' terminals as follows:

- input / output (+) and “+”;
- input / output (-) and “-”;
- shielded wire (S) and “S”.

3.6. Stick the label for the address number (pos.8) to the appropriate place.

3.7. Assign the address using the DIP switches (pos.7), in accordance with the graphic on the label. Important note: Do not set the DIP switches on intermediate position as incorrect address reception by the control panel will follow.

3.8. Place the carrier unit (pos.2) in the base and fix it using the two screws (pos.5).

3.9. Check the glass for signs of damage.

3.10. Place the cover (pos.3) onto the carrier unit (pos.2) and tighten the screw (pos.5).

## 1. UVOD

Ručni adresabilni javljač 6150 je sastavni deo protivpožarnog sistema FS6000. Predviđen je za davanje signala protivpožarnoj centrali, u slučaju požara, ručnim aktiviranjem, gde svojom adresom ukazuje na tačno mesto nastanka signala.

## 2. STRUKTURA I PRINCIP RADA

### 2.1. Struktura

Sastavni delovi ručnog javljača prikazani su na Sl. 1. i on se sastoji iz: kućišta (poz.1), podsklopa nosača (poz.2), poklopca (poz.3), stakla (poz.4) i TEST ključa (poz. 6).

Na dnu kućišta se nalaze četiri otvora za montažu na zid i centralni otvor za provodnike protivpožarne linije.

Podsklop nosača čine: nosač, mikroprekidač, štampana ploča i staklo.

Na štampanj ploči su montirani: LED indikator, otpornik za limitiranje jačine struje u slučaju požara, kolo za formiranje signala adrese, prekidač za setovanje adrese (poz.7) i priključna klemna.

Pregrada, montirana na nosač, prekriva mikroprekidač i štampanu ploču. Podsklop nosača (poz. 2) je pomoću dva vijak (poz. 5) pričvršćen zakućište (poz. 1). Staklo je postavljeno u ležište pregrade, tako da naleže na dirku mikroprekidača i drži ga otvorenim. Poklopac javljača je montiran na nosač pomoću jednog vijka. Na staklu je zalepljen stiker sa grafičkim prikazom mesta loma stakla u slučaju požara. Oznaka adrese (poz. 8) je postavljena na prednjoj strani nosača.

### 2.2 Princip rada

Pri pojavi požara, u zoni zaštite, zaštitno staklo na javljaču treba jako pritisnuti. Rezultat toga je lom stakla i oslovačanje dirke mikroprekidača. Ovo dovodi do zatvaranja strujnog kruga i protoka struje, u zavisnosti od vrednosti otpora na otpornicima i radnog napona (karakteristični za svaki tip protivpožarne centrale). Ovako se prenosi signal protivpožarnoj centrali za stanje “požar”. LED indikator svetli pokazujući da je javljač aktiviran. Za povratak u normalno stanje, resetovanje javljača, neophodno je da se skine poklopac i da se promeni staklo. (koristiti samo staklo tipa G-1).

Zadavanje adrese se vrši pomoću DIP prekidača prema instrukciji u Poglavlju 9 Instrukcija centrale FS6000. Adresiranje javljača se ostvaruje pomoću specijalizovanog protokola.

## 3. PRIPREMA JAVLJAČA ZA RAD

3.1. Raspakovati i proveriti kompletnost

3.2. Skinuti poklopac posle odvijanja vijaka.

3.3. Skinuti podsklop nosača (poz. 2) zajedno sa zaštitnim staklom (poz.4), posle odvijanja dva vijka.

3.4. Provodnike protivpožarne linije provući kroz centralni otvor na kućištu (poz. 1). Pričvrstiti kućište za ravan zid na visini 1.2-1.5 m, pomoću odgovarajućih vezivnih elemenata.

3.5. Priključiti provodnike iz protivpožarne centrale na priključne klemne javljača, tako da:

- ulaz / izlaz (+) i “+”;
- ulaz / izlaz (-) i “-”;
- širm žica (S) i “S”

3.6 Zalepiti oznaku adrese (poz. 8) na odgovarajuće mesto

3.7 Dodeliti adresu javljaču pomoću DIP prekidača (poz. 7), koja je istovetna oznaci adrese. Napomena: Ne setovati DIP prekidač u srednji položaj jer će centrala registrovati grešku adrese.

3.8 Postaviti podsklop nosača (poz. 2) na kućište i pričvrstiti ga pomoću dva vijka.

3.9. Proveriti da li zaštitno staklo ima oštećenja.

3.10. Postaviti poklopac (poz. 3) na podsklop nosača (poz. 2) i pričvrstiti ga pomoću vijka (poz. 5)

#### 4. TEST

- 4.1. Test the correct operation of 6150 by inserting the spiral end of the test key (poz.6) into the slot at the left hand side of the unit's base.
- 4.2. Press the test key axially and tighten to rest. The fire detector is then activated and the LED illuminates. If, due to some reason, the fire detector is not activated, turn the test key carefully, clockwise.
- 4.3. To reset the fire detector take the test key out of the slot, turn it backwards and insert it again. Press axially until rest; the fire detector will be reset and the LED extinguishes

#### 5. WARRANTY

The manufacturer guarantees product compliance with the EN54-11 Standard. The warranty period is 36 months from the date of purchase, providing that requirements stated in the service schedule have been observed.

#### 4. TEST

- 4.1. Postaviti spiralni kraj TEST ključa (poz. 6) u otvor na levoj, donjoj strani kućišta javljača
  - 4.2. Pritisnuti ključ aksijalno da se zavravi. Staklo propada i LED indikator počinje da svetli. Ako, iz bilo kog razloga, staklo ne propadne neophodno je okrenuti pažljivo TEST ključ u smeru kazaljke na satu.
  - 4.3. Za resetovanje javljača potrebno je izvaditi TEST ključ i ponova ga vratiti u otvor i aksijalno pritisnuti do zavravljenja. Staklo treba da se vrati u gornji položaj a LED indikator da se ugasi
- #### 5. GARANCIJA

Proizvođač garantuje da proizvod odgovara standardu EN54-11. Garancijski rok je 18 meseci od dana kupovine, pod uslovom da je instalacija izvršena od strane ovlašćenog lica.

### Structure of Addressable Manual Call Point

#### Delovi ručnog adresibilnog javljača

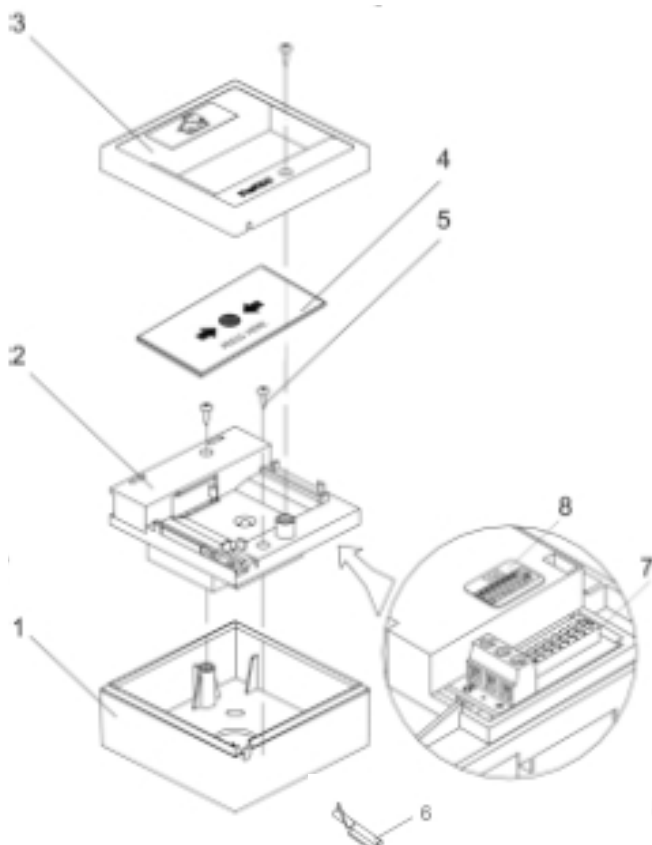


Fig.1 / Sl. 1

- 1 – Surface box / Kućište
- 2 – Carrier unit / Podsklop nosača
- 3 – Cover / Poklopac
- 4 – Glass / Staklo
- 5 – Screw / Vijak
- 6 – Key / Ključ
- 7 – DIP switches for address assignment / DIP prekidač za adresiranje
- 8 – Label for address number / Oznaka adresnog broja

### TECHNICAL DATA

Operating voltage	– od 12 do 27 V DC
Current consumption in quiescent state	– 60 $\mu$ A pri 26 V DC
Current consumption in alarm state	– 5.5 $\pm$ 1 mA
Terminal connection	– provided for 0.35mm <sup>2</sup> – 1 mm <sup>2</sup> cross section installation wire
Operating temperature range	– minus 10°C – plus 55°C
Level of protection	– IP 40
Humidity resistance	– (90 $\pm$ 3)% at 40°C
Dimensions	– (90x90x40) mm
Weight	– 0.200 kg
Material	– Red ABS plastics

### TEHNIČKE KARAKTERISTIKE

Radni napon	– od 12 do 27 V DC
Potrošnja struje u radnom režimu	– 60 $\mu$ A pri 26 V DC
Potrošnja struje u alarmnom stanju	– 5.5 $\pm$ 1 mA
Klemni priključci	– od 0.35 do 1 mm <sup>2</sup>
Radna temperatura	– od –10°C do +55°C
Stepen zaštite	– IP 40
Relativna vlažnost	– (90 $\pm$ 3)% pri 40°C
Dimenzije	– (90x90x40) mm
Težina	– 0.200 kg
Materijal	– ABS crveni

### SERVICE SCHEDULE / SERVISNI PLAN

No. / Br.	Task / Zadatak	Periodicity / Periodičnost
1	Inspection for visible physical damage / Provera vidljivih mehaničkih oštećenja	Weekly / Nedeljno
2	Test correct operation / Provera radne sposobnosti	Monthly / Mesečno