

# JA-60SP Wireless Optical Smoke Detector

The JA-60SP detects smoke or temperature overrunning and wirelessly transmits this information to a receiving unit (control panel). It also has a built in siren to warn people in the immediate vicinity. For testing purposes the detector is equipped with a testing button. You can also test it remotely using any audio/video IR remote control (TV, stereo etc.).

The detector makes regular auto testing and reports its condition to the system regularly for full supervision.

- Attach the rear panel with the two provided screws to the desired location. Tighten the screws firmly being sure that the panel is not crooked.
- Study the installation manual of the receiver unit (control panel) to learn how to enter the enrolling mode to enroll the detector.
- Connect batteries in the detector (remove the plastic tape). The JA-60SP will transmit an enrollment signal and its buzzer will make a short beep. From this moment the detector is ready to work.
- Attach the detector's front cover to the rear panel so that both tabs click. Check that the detector is fixed firmly.
- Press the testing button. The detector will make a sound in a 10 seconds and send a testing signal. The testing wireless signal will be always sent to the INSTANT zone regardless of a FIRE/INSTANT jumper setting.
- **In case, that the detector LED blinks unperiodically and the TEST is unsuccessful, there is a intensive interference near the detector, it is necessary to move the detector position!!!!**

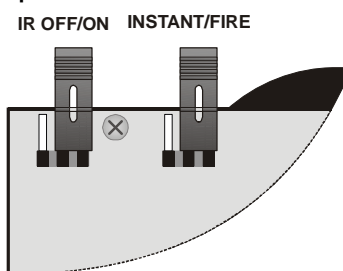
## Jumpers:

**FIRE (default)** – if selected, the detector will make an alarm sound and the central unit will be always triggered regardless of its state (ARM / DISARM).

**INSTANT** – if selected the built in siren is switched off. **The central unit will be triggered only if it is ARMED.** This setting is suitable especially for location where the common usage of some appliance (e.g. fire place) may cause a presence of the smoke.

**Warning, in this mode the system will not make any fire alarm, while it is DISARMED!**

**IR ON / OFF** - the internal IR remote control testing can be disabled by this jumper.



## Normal operating mode

The detector in normal operating mode performs a self-testing every 60 seconds (indicated by a short flash of the LED) and reports regularly its condition to the system.

**If smoke or temperature overrunning is detected**, the JA-60SP LED will periodically blink at first and if the smoke concentration does not go down within 5 seconds, it will trigger an alarm (depending on the FIRE/INSTANT jumper).

After the smoke concentration drops the detector will go to the stand by mode again. You can stop the internal siren by pressing the test button or using an IR remote control (see below).

**To test the detector – press the testing button or use any IR remote control** (if enabled by the IR jumper). Standing under the detector aim the remote control up to it and press any button. Note that different remote controls can differ in working distance. The detector LED will periodically blink at first and within a few seconds it will start an alarm (built in siren & signal to the alarm system). The testing signal will be always sent to the INSTANT zone regardless of FIRE/INSTANT jumper setting.

## Battery replacement

The detector checks the batteries automatically. If it is necessary to replace them the detector will inform the system and it will start to generate "soft" beeps every minute.

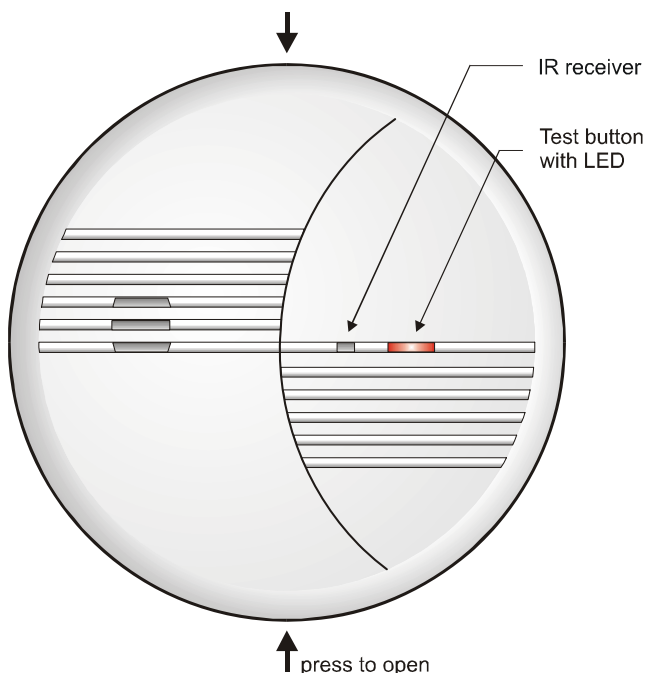
Use only new high quality alkaline AA batteries for replacement. After installation of new batteries the detector's buzzer will make a sound to confirm that it is ready.

If there is no sound after the batteries are installed and the LED is flashing, it means that the installed batteries have a low voltage.

**Warning it is impossible to close the detector without batteries!**

**Note:** we recommend removing dust from the detector every time you replace the batteries. Use a dry cloth or blow on it gently.

**Note:** Dispose of batteries safely depending on the type of the batteries and local regulation. Although this product does not contain any harmful materials we suggest you to return the product to the dealer or directly to the producer after usage.



## Specifications

|  |   |
|--|---|
| Power  | 3 V - 2 x AA battery 1.5V                                 |
| Battery lifetime   | about 1 year  |
| Consumption  | Stand-by 40 $\mu$ A                                       |
| Wireless communication range                                 | max. 100 m (open area)                                    |
| Detection method   | IR light detection  |
| Detection temperature  | 60 °C to 70 °C (depending on speed of temperature rising) |
| Sensitivity  | $m = 0,05 \div 0,07$ at 1m/s (EN 54-7)                    |
| Built in siren   | 95dB/1m   |
| RF immunity  | 30V / 1m  |
| Working environment  | indoor use , IP-40  |
| Working temperature  | -10 to +55°C  |
| Humidity   | 25% to 85%  |
| Dimensions   | φ120 x 40 mm  |
| Can be operated according to ERC REC 70-03                   |   |
| Complies with EN 14604, EN 54-7, ETSI EN 300 220, ETS 300683 |   |

Hereby, Jablotron Ltd., declares that this JA-60SP is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.

Original of the conformity assessment can be found at the web page [www.jablotron.com](http://www.jablotron.com), section Technical support.

**CE 0700**

**Contents of the set:** detector, 2 plastic dowels, 2 screws, 2 AA batteries

## Installation

The detector should be installed on the ceiling, with the distance from walls 0.6 m as a minimum. The detector should not be installed in a place with a poor air circulation. If you install the JA60SP in a long corridor (9 m and more) install at least two detectors one at each end. The detector can cover an area of about 50 m<sup>3</sup> of free space (no partitions). The detector should not be installed close to any light sources, fan, heating/cooling vent and another interference sources.

While deciding where to install the detector keep in consideration that detector's batteries have to be replaced from time to time (approximately once a year).

- Open the cover of the detector (press it from both sides up to the lines on the housing – see the picture)

