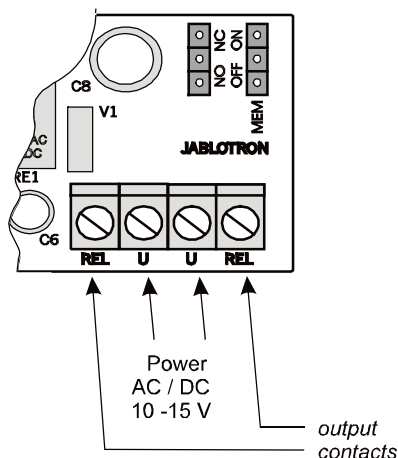# SD-112 Smoke Detector

The SD-112 is a smoke detector, which provides output relay and can be used as a part of house alarm system. If smoke is detected, the SD-112 will make a warning sound and its output relay will be triggered. There is an optional alarm memory function. The detector makes regular auto testing and reports its condition with its LED indicator.

Power
AC / DC
10 -15 V

output contacts

Test button with LED

press to open

Specifications

power	*11 V – 15 V - external (AC or DC)*
stand by consumption	*2 mA*
alarm consumption	*max. 25 mA*
built in sensor	*ionic chamber*
radiation of sensor	*max. 4 kBq*
sensitivity	*y = 0,5 ÷ 0,7 (EN 54-7)*
built in siren	*95 dB/1m*
built in relay contact	*max. 1A / 60V (NC or NO selectable)*
life time	*10 years*
max. air flow	*12 m/s*
EMC immunity	*30 V/m*
rel. humidity	*25 % to 75 %*
size	*Ø120 x 40 mm*
working environment	*indoor use , -10 to +60°C*
complies with ISO 12239, EN 54-7	

Complies with the essential requirements of: 89/336/EC EMC Directive - Protection concerning electromagnetic compatibility when is used for its intended purpose. Original of the conformity assessment can be found at the web page www.jablotron.cz, section Technical support.
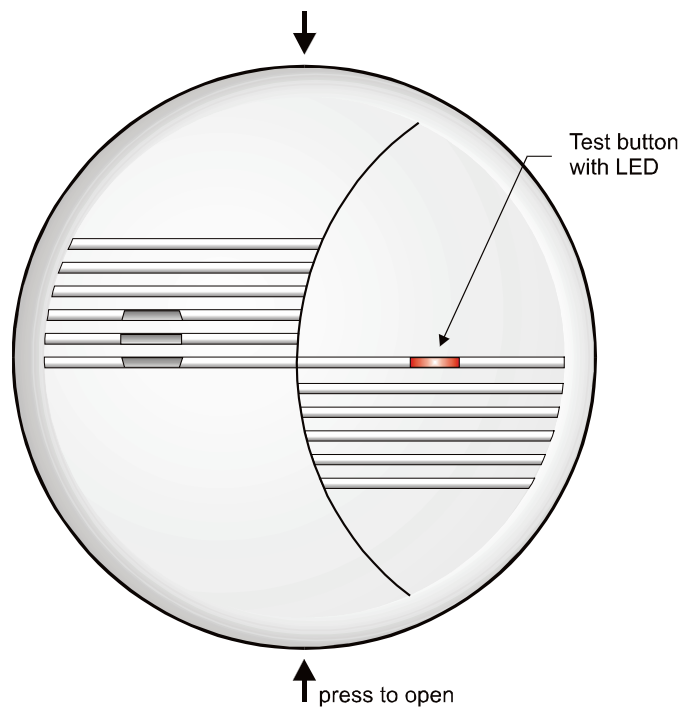
Contents of the set: *detector, 2 plastic dowels, 2 screws* CE

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 poor air circulation. If you install the SD-112 in a long corridor (9 m and more), install at least two detectors , one at each end. A detector can cover an area of about 50 m³ of free space (no partitions). The detector should not be installed close to any fan, heating/cooling vent, fluorescent lamp or air ionizer. The SD-112 is not suitable for places with a high concentration of paint solvents or car exhausts (fumes).
Note: the detector can also be triggered by heavy cigarette smoke or fumes from cooking.

- Open the cover of the detector (press in from both sides up to the lines on the housing. – see the picture)
- 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.
- Connect wires to the terminals (the terminals are removable form the board for easier wiring):
  U, U - external power (11 – 15 V AC or DC)
  REL, REL - output relay contact. Using RELAY jumper on the board select Normally Open = NO or Normally Closed = NC function of the relay
- Set the programming jumper into a desired postion
  NO relay is normally open
  NC relay is normally closed
  MEM ON memory function is on – Both siren and relay is activated till the power supply is switched off.
  MEM OFF memory function is off
- Attach the detector's front cover to the rear panel so that both tabs click. Check that the detector is fixed firmly.
- Turn on the power, the SD-112 will make a sound and from this moment the detector is ready to work.
- Press and hold the testing button. The detector will make an alarm sound and the relay will be triggered in few seconds.

Normal operating mode of the detector

The detector, in normal operating mode, performs self testing every 40 seconds (indicated by a short flash of the LED).

If smoke is detected, the SD-112 will start an alarm (siren & relay). After the smoke concentration drops, the detector will go to stand by mode again.

To test the detector - press and hold the testing button. The detector should make an alarm sound and the relay should be activated after a few seconds.

Note: we recommend to remove dust from the detector every 6 months. 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.