

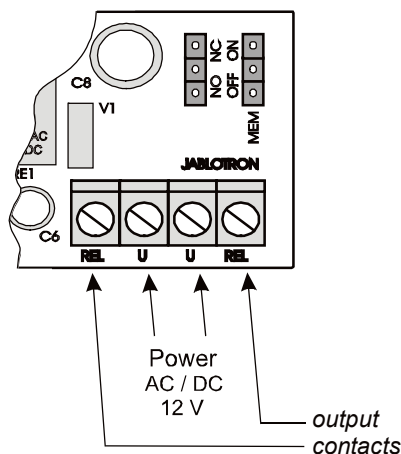
SD-212 Optical Smoke Detector

The SD-212 is a optical smoke detector, which provides output relay and can be used as a part of house alarm system. If smoke is detected, the SD-212 will make a warning sound and its output relay will be triggered.

The detector makes regular auto testing and reports its condition with its LED indicator.

The optical chamber provides very high sensitivity and false alarm immunity in the same time. The detector is especially suitable to detect smouldering wood, paper, textile etc.

The SD-212T version has a built-in temperature detector, which triggers an alarm when the temperature exceeds 70-85°C.



Specifications

power	12 V - external (AC or DC)
stand by consumption	2 mA
alarm consumption	max. 25 mA
detection method	IR scattered light detection
sensitivity	$m = 0,05 \pm 0,07 \text{ dB/m}$ (EN 54-7)
built in siren	95 dB/1m
built in relay contact	max. 1A / 60V (NC or NO selectable)
life time	10 years
EMC immunity	30 V/m
rel. humidity	25 % to 75 %
working environment	indoor use, -10 to +55°C
Dimensions	$\phi 120 \times 40 \text{ mm}$

Complies with ISO 12239

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

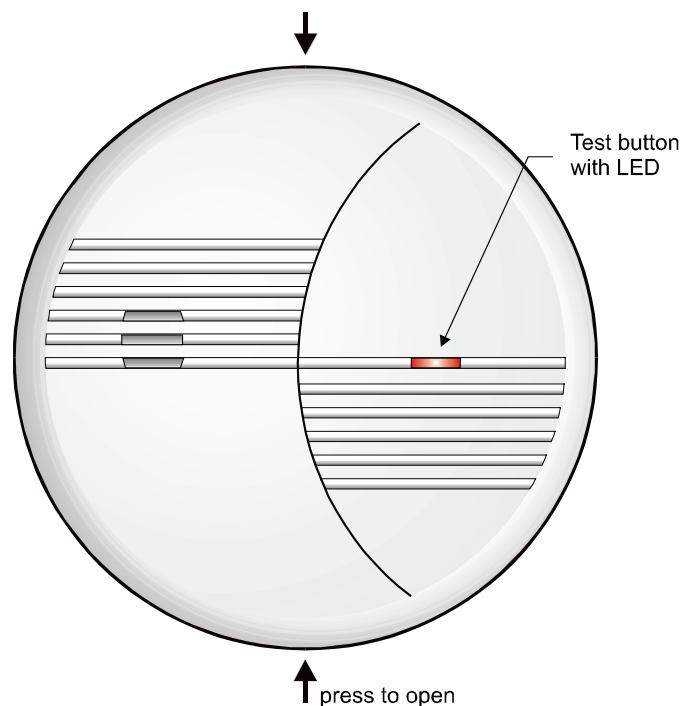


Installation

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-212 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 SD-212 can be installed in places with a high concentration of paint solvents or fumes from cooking.

Note: The detector can also be triggered by heavy cigarette smoke.

- 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 from 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
- 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-212 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-212 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 removing dust from the detector every 6 months. Use a dry cloth or blow on it gently. Do not try to open the optical chamber!

Note: 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.



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