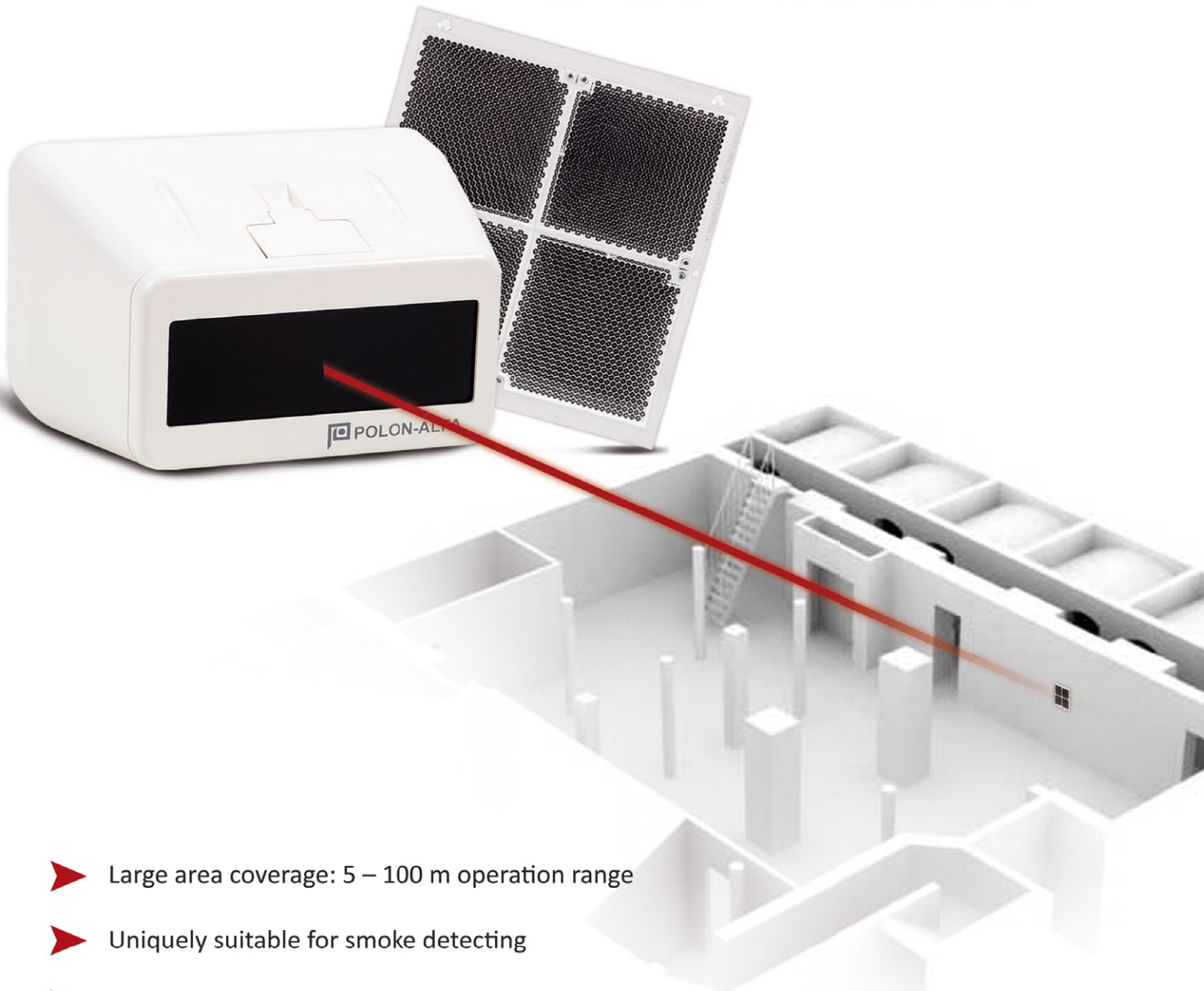
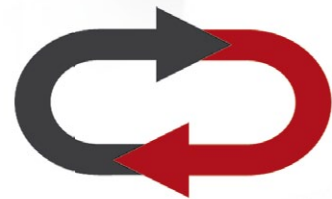


BEAM SMOKE DETECTOR DOP-6001R



- ▶ Large area coverage: 5 – 100 m operation range
- ▶ Uniquely suitable for smoke detecting
- ▶ Adjustable sensitivity threshold levels
- ▶ Transmitter and receiver mounted in one housing – significant economy in wiring
- ▶ Easy optical path aligning with laser target viewfinder
- ▶ EN54 Certified



**OPERATING WITH ANY
FIRE ALARM SYSTEM**
UNIVERSAL BEAM SMOKE DETECTOR

BEAM SMOKE DETECTOR **DOP-6001R**

The beam smoke detector **DOP-6001R** is designed for detection of smoke, originating in early stage of fire growth. It is especially suitable for protection of rooms, where in the first phase of fire appearing of smoke is expected and in such places, where due to large surface of room would be necessary using of large number of point smoke detectors. The detector analyses mean value of smoke density on the long way of emitted infrared radiation beam, and therefore is especially useful for application under high ceilings or in such places, where smoke can be scattered in large area before detection. The beam detectors are especially recommended for application in such buildings as churches, cathedrals, historical buildings with very valuable ceilings, theatres, opera-houses, sporting halls, manufacturing halls, very high rooms, in which point detectors would be ineffective, rooms with differentiated ceilings, corridors, cable ducts, area over false ceilings etc.

DOP-6001R is equipped with potential free relay output of fire and fault alarm, for operation in fire detection systems of other manufacturers.

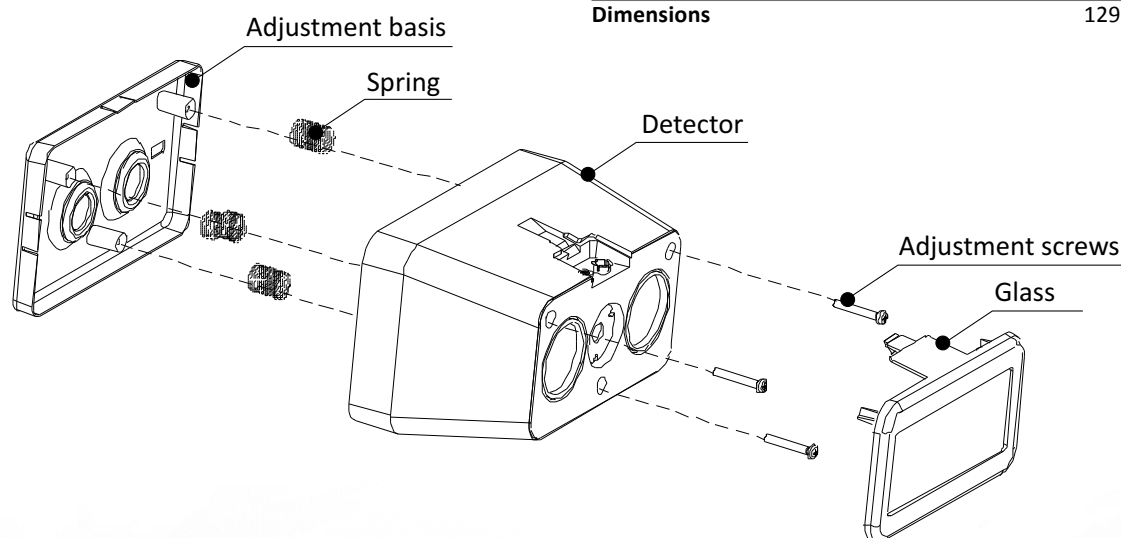
Specific features

- The transmitter and the receiver are placed in one casing, and infrared radiation beam reflects from a special prismatic reflector, so, it is not necessary to connect the transmitter and the receiver with cable, as in the case of most similar detectors accessible on the market, having the transmitter and the receiver in independent casings – installation cost is decreased.
- Built-in a laser view-finder enables easy and accurate adjustment of optical path of the detector, what was most labour-consuming until now, especially at considerable distances.
- The special prismatic reflector has additional feature of infrared beam concentration, directing it to the receiver. This allows for installation of reflectors on walls and structures submitted to small vibrations, due to presence of heavy machines, as well as deformations as result of big temperature changes (e.g. between day and night).

- Processor detector with supported memory, self-adjusting, which analyses protected area; decision concerning fire alarm condition is undertaken after three verifications of measured value and comparison with different models of fire growth.
- Early information for the service staff, that the optical structure is soiled (e.g. due to dust deposition) with maintaining of ability to detect fire threat.
- Practically flat sensitivity characteristic, independent from dimensions of smoke particles (aerosol), which offers possibility of its versatile application.
- Protection of large surface with one beam detector – like dozen or so point detectors, at possible higher ceilings.
- There is possibility to set sensitivity thresholds depending on distance between detector and reflector, and depending on environmental conditions.

Technical data

Operating voltage	from 9,5 to 28 V
Operating current (depending on control panel)	from 8 to 30 mA
Alarm current	from 20 to 100 mA
Current at break of light beam	< 0,3 mA
Service signal current	< 0,3 mA
Operation distance with E39-R8 reflector	(5 ÷ 50) m
Operation dist. with set of reflectors 4 x E39-R8	(50 ÷ 100) m
Sensitivity thresholds (at choice)	18%, 30%, 50%
Number of detectors in one conventional line	acc. to project
Load of fire and fault alarms relays contacts	1 A/30 V
Power supply of laser view-finder (only during adjustment)	9 V 6F22 battery
Operating temperature range	(-25 ÷ +55)°C
Dimensions	129 x 80 x 84 mm



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