

# Optical Flame Fire Detector FD8040



The optical flame fire detector FD8040 is designed to provide early warning of a fire condition responding to open flame.

The fire detector reacts within the light spectrum of the flame and has maximum sensitivity of the infrared range.

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## Technical data

The operation principle of the FD8040 is based on the reception of flame emissions with their typical flicker frequency within the whole spectrum range. The infrared sensor signal – amplified, filtered and shaped is being sent to the time delay circuit. If the flame impact has decreased during the time delay, the fire detector does not activate.

The fire detector consists of printed board, mounted in a plastic body with optical filter and bottom side. The flat point pivot screw (optional) prevents the fire detector of unauthorized removal. The two red LEDs of the fire detector are indicating fire condition, providing 360 angle visibility.

It is recommended that the fire detectors are mounted in premises, where a possible development of fire condition is supplemented by flame. Avoid mounting in premises with flickering lights. The fire detectors shall be mounted on the ceiling in a way, that do not allow exposure to direct sunlight.

### Supply voltage:

– (12-30) VDC

### Current consumption in duty mode:

– 300  $\mu$ A / 22,5 Vdc

### Current consumption in fire condition:

– with base type 8000 or 8000D:

8mA/12V DC; 25mA/ 30V DC

– with base type 8000R, 8000DR:

18mA/12V DC; 55mA/ 30V DC

Sensitivity: in accordance with EN54-10,  
class 2 (IR)

Protected area: Angle of visibility 45°

Type of the line connection: two-wire

Degree of protection: IP 40

Operation Temperature Range:

-10 °C to +55 °C

Relative humidity resistance:

(92±3)% at 40 °C

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Dimensions (base type 8000 included):

– 100mm h 47 mm Ø

Output in Alarm condition: Terminal RI/KL  
for RI31 or RI31S

Cross section of the connection wire:

– 0.5-1.5mm<sup>2</sup>



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