

## Overview

The fire detector is designed for early warning of a fire condition responding to fixed threshold smoke concentration detected in the protected premises. The smoke sensitivity is factory preset. The principle of functioning of the detector is based on scattered light reflected from smoke particles entering the optic chamber. The fire detector is microprocessor controlled with implemented algorithm for self-compensation of the chamber contamination. LF-S50 is fitted on 50 series base.

The fire detector consists of a printed circuit board and an optic chamber fixed in a plastic cabinet.

Both LED indicators allow range of visibility 360° and provide information for the status.



## Technical Data

Nominal operating voltage	24V DC
Minimum operating voltage	10V DC
Maximum operating voltage	30V DC
Current consumption in Standby mode	130 µA/22.5V DC
Current consumption in Alarm mode	8mA/10V DC; 25mA/30V DC
Smoke sensitivity	complies with EN 54-7:2018
Time to enter Standby mode after power supply is on	up to 40s
Reset Time	2s
Time to enter Standby mode after reset	up to 40s
Protected area	circle with diameter 15m (complies with EN 54-14)
Height of mounting	complies with EN54-14
Output in Alarm condition (RI/KL terminal)	for (RI) Remote Indicator
Degree of protection	IP43 (not verified by UL)
Operational temperature range	minus 10°C - plus 50°C
Relative humidity resistance	(93±3) % at 40°C
Dimensions, base included	Ø100mm, h=52mm
Weight, base LF-DB50 included	0.100kg
Type of the connecting line to the base	2-wire, a single-core or multi-core insulated wire
Cross section of the connecting wire	(0.8-1.5) mm <sup>2</sup>

## Wiring Details

