

Overview

The fire detector is designed for early warning of a fire condition responding to fixed threshold smoke concentration or rate of rise temperature or fixed temperature threshold detected in the protected premises. The principle of functioning of the optical part is based on scattered light reflected from smoke particles entering the optic chamber. The principle of functioning of the heat part is based on the ohmic resistance alteration in the thermistor as a result of the ambience temperature change. The smoke sensitivity and the temperature category are factory preset. The fire detector is microprocessor controlled with implemented algorithm for self-compensation of the chamber contamination. LF-FS50 is fitted on a 50 series base.

The fire detector consists of a printed circuit board, an optic chamber and a thermistor.

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
Temperature category	A2R (complies with EN54-5:2017 + A1:2018)
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	complies with EN54-14
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 ²

Wiring Details

