

FIREX KF20R

Optical Smoke Alarm

Mains-Powered

Overview

Mains-powered optical smoke alarm with rechargeable sealed-in lithium back-up battery, that can be interlinked with up to 23 other Kidde mains alarms, be they ionisation, optical or heat. Once interlinked, the detection of the relevant danger by an individual unit will sound across all the connected alarms.



Key Features

- **Interlink with up to 23 Firex hard-wired alarms** – all alarms sound if danger is detected
- **Alarm memory** – identifies source unit within interconnecting network
- **Dust compensation and bug screen** – reduces nuisance alarms
- **Combined Test/Hush button** allows regular testing of alarm function and can be used to temporarily silence nuisance alarms
- **Auto reset** after activation
- **Tamper-resistant locking device** prevents unauthorised removal without the use of a tool
- **Mains operation** – built-in rechargeable lithium back-up battery

General

Sensor Type	Optical
Primary Power Supply	230V mains-powered with rechargeable lithium back-up battery
Sound Output Level	85dB (A) at 3 metres
Mounting Options	Ceiling or wall mounting recommended
Operating Temperature Range	0 °C to 40 °C
Humidity Range	Up to 93% RH (non-condensing)
Storage and Transport	-20 °C to 60 °C, 5% to 95% RH (non-condensing)

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Technical Specification

Sensor	Optical
Button Test	Simulates the effect of smoke within the sensing chamber, checks electronics and sounder
Automatic Self-test	Circuitry is tested and unit beeps (chirps) if fault is detected
Supply Voltage	230V AC, 50 Hz (nominal UK voltage)
Power Consumption	< 15mA
Connection	Push-in/snap-fit type connector with 150mm long flying leads (supplied)
Battery Back-up	Non user-replaceable 3 x 3V rechargeable Lithium Aluminium Alloy / Magnesium Composite Oxide cells (ML2430)
Power-on Indicator	Continuous green LED
Alarm Sounder	Electronic piezo-electric sounder (T3 pattern sound - 3 pulses - space - 3 pulses), soldered contacts
Sound Output	85dB (A) minimum at 3 metres
Alarm Frequency	3.2 kHz typical
Dust Protection	In-built foam gasket in rear of alarm to prevent dust ingress into rear of the alarm
Alarm Status	Red LED flashes approx once every five minutes = normal operation Red LED flashes once a second = sensing smoke (sounder alarm sounds) Red LED flashes once every ten seconds = in hush condition (auto-reset after 15 minutes)
Interconnection	Up to 24 Firex and Kidde 'Slick' units (smoke, heat and CO) can be hardwire interconnected
Optional Pattresses	SMK23RU also has integral switchable relay for operating remote devices
Fixing	Mounting bracket ring supplied with two 'T' slot fitting option 57mm spacing to a maximum of 90mm for standard screw fittings on back boxes Bracket has 50mm diameter central access hole for cabling

Weights and Dimensions

Alarm Dimensions	127mm x 39mm
Alarm Weight (w/o packaging)	242g
Case Quantity	6 units

Certification / Approvals

BS EN14604:2005, CE
Manufactured to ISO9001 Standard

Warranty

6- Year manufacturer's warranty

