

FIREX®



Rechargeable sealed-in Lithium cell back-up version

PRODUCT

KF20R

Mains Optical Smoke Alarm

DESCRIPTION

Mains-powered optical smoke alarm 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



* compared to previous Firex alarms

- **Interlink with up to 23 Firex hard-wired alarms** – all alarms sound if danger is detected
- **Alarm memory** – identifies source unit within interconnecting network
- **Reduced energy consumption** – lower lifetime running costs
- **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 tamper-proof battery

WHERE TO USE

Optical alarms are for use in escape or circulation routes and in areas where there is a danger of ignition of furniture and surroundings by cigarettes producing slow, smouldering fires. This mains-powered unit should be installed by a qualified electrician and can be used throughout the home, except in the kitchen where a Firex Heat Alarm is recommended. These alarms comply with UK Building Regulations for new housing and associated standards (Grade D BS 5839, Part 6).

GENERAL FEATURES

Model	KF20R
Power Supply	230V mains-powered with rechargeable Lithium battery back-up
Temperature Range	0°C to + 40°C
Humidity Range	Up to 93% Relative Humidity (RH) non-condensing
Storage and Transport	-20°C to +60°C and 5–95% relative humidity (RH) non-condensing
Alarm Dimensions	127 x 127 x 39mm
Bracket Dimensions	133 x 133 x 6mm
Alarm Weight	242g
Warranty	6 years (including battery)
Approvals	BSI certified to BS EN14604:2005
	CE tested and certified



EN14604:2005
Licence no: KM524754



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EN14604:2005

For more information or to contact Kidde Sales:
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MAINS SMOKE ALARMS
SHEET 11 / 2015

PRODUCT

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POWER SOURCE

230V Mains

SENSOR TYPE

Optical

TECHNICAL SPECIFICATION

Sensor	Optical, circular lateral chamber with insect-resistant width slot entry portals and added bug screen mesh
Chamber Size	35mm outside diameter x 16mm depth approximate (external)
Detection Band	Infrared light wavelength
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 with optional control (see below)
Optional Controls	Wired Remote Test and Hush Unit (REMTH) allows test and hush of interlinked units
Optional Pattresses	SMK23RU also has integral switchable relay for operating remote devices SMK4896 – Surface mounting base for added ease of installation
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
Plastics used	NORYL – Cover, main body and mounting bracket
Lead-Free Status	All Firex alarms are lead-free

PACKAGED SPECIFICATION

BOX	
Order Code	KF20R
Pack Dimensions	135 x 135 x 50mm
Pack Weight	290g
UPC Barcode	0-047871-259731
Case Quantity	6
Case Dimensions	145 x 280 x 160mm
Case Weight	1.8Kg
ITF Outer Code	100-47871-259738

