

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



EN14604:2005  
Licence no: KM524754



0086-CPD-535595  
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EN14604:2005

For more information or to contact Kidde Sales:  
**01753 766 392** **kiddesafetyeurope.co.uk**

**MAINS SMOKE ALARMS**  
SHEET 11 / 2015

# KF20R

## Mains Optical Smoke Alarm



POWER SOURCE

230V Mains

SENSOR TYPE

Optical

TECHNICAL SPECIFICATION

<b>Sensor</b>	Optical, circular lateral chamber with insect-resistant width, 9-slot entry portals
<b>Chamber Size</b>	35mm outside diameter x 16mm depth approximate (external)
<b>Detection Band</b>	Infrared light wavelength
<b>Button Test</b>	Simulates the effect of smoke within the sensing chamber, checks electronics and sounder
<b>Automatic Self-test</b>	Circuitry is tested and unit beeps (chirps) if fault is detected
<b>Supply Voltage</b>	230V AC, 50 Hz (nominal UK voltage)
<b>Power Consumption</b>	< 15mA
<b>Connection</b>	Push-in/snap-fit type connector with 150mm long flying leads (supplied)
<b>Battery Back-up</b>	Non user-replaceable 3 x 3V rechargeable Vanadium Pentoxide Lithium cells (VL2330)
<b>Power-on Indicator</b>	Continuous green LED
<b>Alarm Sounder</b>	Electronic piezo-electric sounder (T3 pattern sound - three pulses - space - three pulses) with soldered contacts
<b>Sound Output</b>	85dB (A) minimum at 3 metres
<b>Alarm Frequency</b>	3.2 kHz typical
<b>Dust Protection</b>	In-built foam gasket in rear of alarm to prevent dust ingress into rear of the alarm
<b>Alarm Status</b>	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)
<b>Interconnection</b>	Up to 24 Firex and Kidde <b>'Slick'</b> units (smoke, heat and CO) can be hardwire interconnected with optional control (see below)
<b>Optional Controls</b>	Wired Remote Test and Hush Unit (REMTH) allows test and hush of interlinked units
<b>Optional Pattresses</b>	SMK23RU also has integral switchable relay for operating remote devices SMK4896 – Surface mounting base for added ease of installation
<b>Fixing</b>	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
<b>Plastics used</b>	NORYL – Cover, main body and mounting bracket
<b>Lead-Free Status</b>	All Firex alarms are lead-free

PACKAGED SPECIFICATION

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

