FIREX®

PRODUCT

KF20

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

ENERGY 70% SAVING

* 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** – 9V Alkaline back-up battery supplied as standard

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	**KF20**
Power Supply	**230V mains-powered with 9V Alkailine battery back-up**
Temperature Range	**0ºC to + 40ºC**
Humidity Range	**Up to 93% Relative Humidity (RH) non-condensing**
Storage and Transport	**-20ºC to +60ºC 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**
Approvals	**BSI certified to BS EN14604:2005**
	CE tested and certified

EN14604:2005
Licence no: KM524754

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EN14604:2005

KF20

Mains Optical
Smoke Alarm

POWER SOURCE	**230V Mains**
SENSOR TYPE	**Optical**

TECHNICAL SPECIFICATION

Sensor	Optical, circular lateral chamber with insect-resistant width, 9-slot entry portals
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	User-replaceable alkaline 9V battery (522/6LR61)
Power-on Indicator	Continuous green LED
Alarm Sounder	Electronic piezo-electric sounder (T3 pattern sound - three pulses - space - three pulses) with 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	**KF20**
Pack Dimensions	**135 x 135 x 50mm**
Pack Weight	**310g**
UPC Barcode	**0-047871-259717**
Case Quantity	**6**
Case Dimensions	**145 x 280 x 160mm**
Case Weight	**2.0Kg**
ITF Outer Code	**100-47871-259714**

For more information or to contact Kidde Sales:

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