



Datasheet for Models:

KF1R KF1

The new-look, cost-effective Firex cable-harness range of smoke and heat alarms – manufactured and supplied by Kidde, with the reassurance of a leading global manufacturer.



Lic No: KM524754
BS EN 14604: 2005

230V Mains Ionisation Smoke Alarms

Key Features

Firex hard-wired smoke and heat alarms all have a full 6-year guarantee and are BSi Kitemarked to reinforce the consistent quality provided by the world's largest manufacturer. Ionisation and optical models are complemented by heat alarms for situations unsuitable for smoke alarms, such as kitchens and garages.

- Single 'Hush' and 'Test' button
- Choice of sealed-in rechargeable (three Panasonic lithium cells) or loose battery back-up ranges
- Cable harness type connection and interconnectable up to 24 units
- Supplied with base-plate

Applications

Both models are mains powered (for professional installation) with back-up power, complying with current minimum requirements of the relevant Building Regulations for new housing, i.e. Grade D (BS5839, Part 6).

Ionisation Smoke Alarms are for use where a fast flaming fire (for example, electrical equipment igniting) is more likely to be a hazard than a slow, smouldering one, such as from furniture and bedding. They are more prone to nuisance alarms from cooking particles and steam near kitchens. They contain a very small amount of Americium 241 radioactive material, which may be a consideration for future disposal.

Technical Specification

Sensor	Ionisation, circular metallic chamber with 24 slot entry inlet portals
Certification	BSi Kitemarked to BS EN 14604: 2005
Source	Americium 241 (≤ 1.0 microcurie, 37kBq)
Button Test	Simulates the effect of smoke within the sensing chamber, checks electronics and sounder
Automatic Self-Test	Circuitry is tested and unit single beeps (chirps) if fault is detected
Supply Voltage	230V AC, 50Hz (nominal UK Voltage)
Power Consumption	Typical 50mA
Connection	Push fit/snap in grip type connector with 150mm long flying leads (supplied)
Battery back-up	(Model KF1) 1 off 9 Volt Alkaline Battery 522/6LR61 (User Replaceable) (Model KF1R) 3 off 3 Volt Rechargeable Lithium Cells Panasonic UL2330 (User Non replaceable)

Kidde Firex – 2012 model numbers

(previous models in brackets)

Back-up type	Sealed-in rechargeable	Loose battery
Alarm type		
Ionisation smoke	KF1R (4881)	KF1 (4870)
Optical smoke	KF2R (4985)	KF2 (4973)
Heat	KF3R (4892)	KF3 (4899)

Models KF1R and KF1

230V Mains Ionisation Smoke Alarms

Technical Specification (cont)

Power-On Indicator	Continuous green LED showing mains power present
Alarm	Electronic Piezoelectric sounder, providing sound – three pulses; space; three pulses – in alarm state
Alarm Sound Output	85dB (A) (minimum) at 3m
Alarm Frequency	3.2 kHz typical
Alarm Status	Red LED flashes approximately once a minute showing normal operation Red LED flashes once a second when sensing smoke (sounder alarm sounds) RED LED flashes once every ten seconds to indicate in hush condition, auto reset after fifteen minutes RED LED off another smoke alarm in an interconnected system has sensed smoke and is signalling an alarm
Normal Operating Temperature Range	0 to 40°C
Humidity Range	Up to 93% Relative Humidity (RH)
Interconnect	Up to 24 of these units can be interconnected: - KF1R, KF1, KF2R, KF2, KF3R, KF3 - 1SFW, 1SFWR, 2SFW, 2SFWR, 3SFW, 3SFWR
Interconnect Options	Connectable as hard-wire interconnected system (up to 24 units as 'interconnect' detail above) Note: Firex may be connected to Kidde Fyrnetics Slick® alarms. See user manuals downloadable from www.smoke-alarms.co.uk Use with optional remote control (see below)
Optional Controls	REMTH Wired Remote Test and Hush Unit allows test and hush of units interlinked as a system
Optional Surface Pattresses	SMK23U allows for surface conduit installations, such as retrofit. SMK23RU as above but with integral switchable relay for operating remote devices. Requires a live mains supply to function. SMK23RU relay base with voltage free relay contacts rated at 8A 24VDC, 8A 250Vac (resistive load), (relay for signalling/switching to/of devices other than the smoke or heat alarms) 132mm diameter x 20mm depth
Fixing	Mounting bracket ring supplied with two 'T' slot fitting option 57mm spacing to max of 90mm for standard screw fittings on back boxes Bracket has central access hole of 50mm diameter for cabling
Plastics used	NORYL, Cover, main body and mounting bracket
Dimensions	127mm diameter x 39mm depth (including mounting bracket)
Dimensions (Mounting Bracket)	133mm diameter, 9mm max depth typical
Weight	KF1 unit out of box – 231 grams KF1 unit in single box – 269 grams KF1R unit out of box – 199 grams KF1R unit in single box – 297 grams
Guarantee	6 years (including the battery on model KF1R)
BS 5839 Category	BS 5839 Part 6 Grade D BS 5839 part 6 Grade C when used with the REMTH unit giving some elements of a central control

Specifications are subject to variation by improvement and change



Wired Remote
Test and Hush Unit



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Kidde reserves the right to alter its products and specifications without notice in line with best practice and continuous improvement.