

KIDDE™

FIREX®

10-YEAR SMOKE ALARM

ITEM 21033087 | MODEL SMAC10YFEX

Hardwired + 10-Year Backup Battery



Images are representative only. Actual product may vary slightly.

Description

When you're on the job, there's no room for uncertainty. Built for pros, the FireX Smoke Alarm (model SMAC10YFEX) delivers dependable, code-compliant detection — backed by North America's #1 home fire safety brand.*

This advanced photoelectric sensor alarm meets UL 217 10th Edition standards. You'll also find key features both you and your customers will appreciate, like a sealed 10-year lithium backup battery,¹ self-testing capability, event memory and universal mounting for streamlined installs.

Features & Benefits

- **Faster Detection²** – Advanced smoke chamber design for quicker, more reliable alerts
- **Reduced Nuisance Alarms** – Intelligent algorithms help distinguish real threats from false alarms
- **Fire Event Locator Memory** – Signals recent event with LED flash every 15 seconds
- **Self-Testing Diagnostics** – Monitors key functions for consistent, lasting performance
- **Heat & Humidity Protection** – Conformal coating protects against oxidation, corrosion and environmental conditions
- **5-Inch Universal Mounting Bracket** – Streamlines installation and replacement
- **Preinstalled Dust Cover** – Rigid plastic cover shields alarm from construction dust and debris
- **Durable, Fire-Resistant Housing** – Built-to-last with screw-secured plastic construction that resists yellowing and aging
- **10-Year Sealed Battery¹** – No battery replacements or chirps

Ordering Information

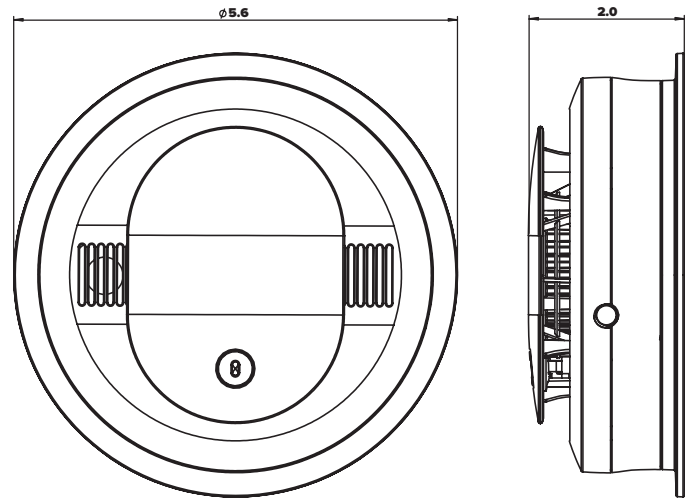
Ordering Number	UPC	GTIN	Pack	Case Dimensions (D x W x H in)	Case Weight (lbs)	Cartons/Pallet
21033087	047871330874	10047871330871	6 / case	15 x 6.3 x 6.06	~ 6	108

*Based on total household installations as of December 2023. ¹ 10-year limited warranty on alarm. Not a battery performance claim. ² 29% faster average smoke detection based on internal testing of smoldering wood fires for Kidde 9th Edition vs. leading competitor 8th Edition products.

Model Specifications

Alarm Indications	Smoke Alarm: Temporal-3, ≥85 dB @10 ft
	Red LED = In sync with alarm pattern
	Amber LED = Fault/Error/EOL
	Green = Power
	Event Recall: Red LED every 15 sec (24 hrs)
	Clean Me: 3 chirps + 1 blink (dust)
Power & Battery	Primary: 120V AC, 60 Hz
	Backup: 10-year sealed lithium battery
	Maintenance-free (no replacement parts)
	UL 217 10th Endurance: ≥7 days standby + 4 min alarm
Functional Features	Test/Hush Button (simulates smoke)
	Hush™ (8 min)
	Alarm Auto Reset After Hushing
	Tamper-Resistant AC Quick Connector
Compliance & Listings	UL 217, 10th Edition (Smoke)
	NFPA 72 (2025)
	NFPA 101
	ICC/IBC aligned
	CSFM Listed
	Meets HUD/FHA standards
Architectural / Engineering	Housing: Flame-retardant thermoplastic (UL 94)
	3 LED indicators
	≥85 dB
	Meets UL 217 10th, NFPA 72 (2025), NFPA 101, FHA, HUD
Technical	Model: SMAC10YFEX
	Sensors: Photoelectric
	Temp: 40–100 °F
	Humidity: ≤95% RH, non-condensing
	Dimensions: 5.67" box / 5" out
	Weight: ~0.9 lb
	Wiring: Quick-connect harness
	Interconnect: Up to 24 Kidde devices
Warranty	10-Year Limited (includes sealed battery)
Bilingual User Guides	English / Spanish

Product Dimension (in)



Installation of Alarm³

The alarm can be installed on any standard single-gang electrical box, up to a 4" octagon junction box. See User Guide for more location information and additional instructions.

The alarm should be installed to comply with all local codes having jurisdiction in your area, Article 760 of the National Electric Code, and NFPA 72. Make certain all alarms are wired to a single, continuous (non-switched) power line, which is not protected by a ground fault interrupter. A maximum of 1000 ft of wire can be used in the interconnect system. Use standard UL listed household wire (18 gauge or larger as required by local codes).

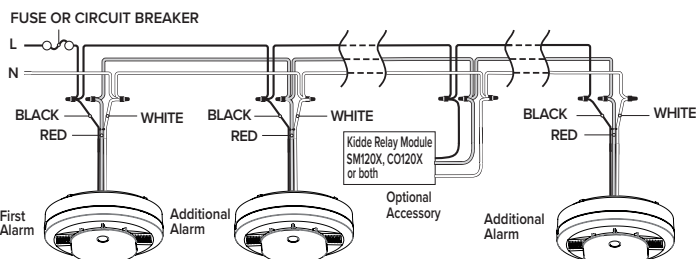
A maximum of 24 Kidde devices can be interconnected in a multiple station arrangement (see chart below for models). The interconnect system must not exceed the NFPA (National Fire Protection Association) limit of 18 initiating devices, of which 12 can be smoke alarms. With 18 initiating devices (smoke, heat, CO, etc.) interconnected, it is still possible to interconnect 6 strobe lights and/or relay modules.

This model meets the latest residential smoke alarm standards, which includes enhanced resistance to nuisance alarms from cooking. Industry experts recommend that both ionization and photoelectric smoke alarms be installed to help ensure optimal detection of the various types of fires that can occur within the home. Ionization sensing alarms may detect invisible fire particles (associated with fast flaming fires) sooner than photoelectric alarms. Photoelectric sensing alarms may detect visible fire particles (associated with slow smoldering fires) sooner than ionization alarms. Industry experts recommend specific locations for smoke alarms, such as every level and sleeping area of the dwelling. The alarm can be installed on the surface of any wall or ceiling following the UL/NFPA/Manufacturer's recommended placement guidelines.

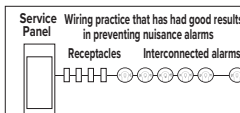
³ For technical information only. Not for installation use. See User Guide for installation and safety information.

Installation of Alarm³ (Continued)

Interconnect Wiring Diagram³



Wires on alarm harness: Connected to:
 Black: Hot side of AC line
 White: Neutral side of AC line
 Red: Interconnect lines (red wires) of other units in the multiple station setup



▲ WARNING: Failure to properly connect AC power and install batteries in the correct orientation, or failure to activate the 10-yr sealed battery, will prevent proper operation of this alarm and will prevent its response to fire hazards.

The following Kidde models can be interconnected using the standard AC wiring interconnect. (Refer to each model's User Guide for visual and audible indicators.)

Models which provide both remote smoke and CO alarms	20SA10, 20SA10-V, 20SAR, 20SAR-W, 3050-VAS10-A, 3050-VASC10-A, 30CUA10, 30CUA10-V, 30CUAR, 30CUAR-V, 30CUAR-W, 900-CUAR, 900-CUAR-V, i12010S, i12010SCO, KN-COB-IC, KN-COPE-I, KN-COSM-I, KN-COSM-IB, KN-COSM-IBA, KN-SMFM-I, P4010ACLEDs, P4010ACLEDs-2, P4010ACLEDSCO, P4010ACLEDSCO-2, P4010ACS, P4010ACSAQ-WF, P4010ACSCO, P4010ACSCOQ-WF, P4010ACSCO-W, P4010ACSCO-WF, P4010ACS-W, P4010ACS-WF, P4010LACS-W, RF-SM-ACDC, RGCUAR-RW, RGSAR-RW, SMACFEX, SMAC10YFEX, CUAFEX, CUAFEX-V, CUAC10YFEX, CUAC10YFEX-V
Models which provide remote smoke alarms, but not remote CO alarms	HD135F, i12020A, i12040, i12040A, i12060, i12060A, i12080, i12080A, i4618A, i4618AC, P12040, PE120, Pi2000, Pi2010
Models which provide both remote smoke and CO alarms with a strobe light and no audible notification	SL177i, SLED177i
Relay modules	SM120X relay module will only activate from interconnect smoke signal. CO120X relay module will only activate from interconnect CO signal.

Alarm Warnings — Featuring multi-color LEDs

- Fire:** The red LED will flash in sync with the alarm pattern (3 long beeps). The alarm will repeat this pattern until the unit is reset or smoke is eliminated.
- End of Unit Life:** Two chirps and amber LED flashes per minute.
- Alarm Memory:** Alerts a user if smoke has been detected in the last 24 hours. If smoke has been detected, the red LED blinks every 15 sec.

Pro Notes / Maintenance

- Clean only with compressed air/vacuum & dry cloth — no water or cleaners
- Keep 3 ft from ducts, fans and lights
- Troubleshooting Nuisance Alarms**
 - Hush** — Press Hush/Test to silence the alarm
 - Clean** — Clear alarm openings using compressed air or vacuum
 - Test** — After cleaning, press Hush/Test to retry alarm
 - Call** — If issue persists, call Kidde Pro Support

Keep the installed dust cover on until at least 24 hours after all construction has been completed (drywall, painting, varnishing, mounting plate install, etc.). Retain the dust cover and reinstall it to protect the alarm during future construction projects. Construction dust and chemicals can cause contamination and false alarms.



▲ WARNING:
 Dust cover must be removed for alarm to operate.

Images are representative only.
 Actual product may vary slightly.

THE RIGHT SUPPORT, RIGHT WHEN YOU NEED IT.

Get the answers you're looking for, with a dedicated customer service line for pros.
 Call **Kidde Pro Support** at **1-888-422-6402**.

SAFETY DATA SHEET (SDS)

1. Product and Company identification

Product Category : Manganese Dioxide Primary Lithium Battery

Nominal Voltage : 3 V

Product name

Type	Lithium (g)
CR14250SE	0.29
CR14250SE-R	0.29
CR14250SEK	0.29
CR1/2 6·L	0.31
CR2/3 6·L	0.41
CR6·L	0.71
CR2/3 6L	0.43
CR1/2 6LHT	0.31
CR2/3 6LHT	0.43
CR2/3 8·L	0.57

Type	Lithium (g)
CR2/3 8LHT	0.57
CR8·L	0.87
CR8·LHC	0.90
CR8LHT	0.90
CR12600SE	0.52
CR17335SE	0.52
CR17335SE-R	0.52
CR17450SE	0.75
CR17450SE-R	0.75

Supplier's Name : FDK CORPORATION

Supplier's Address : 1-6-41, Konan, Minato-ku, Tokyo 108-8212 Japan
Telephone +81-3-5715-7420

Emergency Contact : CHEMTREC at (800)424-9300

Note: SDS is not applicable to the product hermetically sealed as dry battery. The battery has no risk to life and health under normal use or transportation because ingredients of battery are not leaked out by virtue of hermetical sealing with metal case.

This SDS notify possible risk of our battery under abnormal use but mainly aim to provide information about ingredients, notification of handling and transportation regulations as a useful reference.

2. Hazards identification

The important hazards and adverse effects of the chemical product	No information available
Chemical product - specific hazards	No information available
Outline of an anticipated emergency	Chemical contents are sealed in metal can. Therefore, risk of exposure never occurs unless battery is mechanically or electrically abused. Risk of explosion by fire is anticipated if batteries are disposed of in fire or heated above 100 degree Celsius. If the batteries are extremal short circuited or charged, the batteries may generate heat and explosion or fire.

Note) Our battery is not classified in accordance with the GHS classification.

3. Principal Composition/ information on Ingredients

Part	Material	CAS No.	Contents
Positive electrode	Manganese Dioxide	1313-13-9	30 ~ 50 wt%
Negative electrode	Lithium metal	7439-93-2	2 ~ 4 wt%
Electrolyte	Lithium perchlorate	7791-03-9	0.5 ~ 1.5 wt%
	1,2-Dimethoxyethane	110-71-4	3 ~ 4.5 wt%
	Mixture of organic solvent	N/A	5 ~ 15 wt%

4. First-aid measures

Inhalation	If ingredient leaked out from inside of a battery and if inhaled it, move to a place where fresh air is provided. Refer for medical attention.
Skin contact	If ingredient leaked out from inside of a battery and stuck on skin, wash the contact areas off immediately with plenty of water and soap. If appropriate procedures are not taken, this may cause sores on the skin. Refer for medical attention.
Eyes contact	If ingredient leaked out from inside of a battery and came into eyes, flush the eyes with plenty of water for at least 15 minutes immediately without rubbing. Take a medical treatment. If appropriate procedures are not taken, this may cause an eye irritation.
Swallowing	In case of swallowing of battery, immediately refer for medical attention.

5. Fire-fighting measures

Fire extinguishing agent:

Dry chemical, alcohol-resistant foam, powder, atomized water, carbon dioxide and dry sand are effective.

Extinguishing method:

Escape batteries to safe place prevent from ignition by spreading fire.

Because packaging material of battery is paper, use water extinguisher, CO2 extinguisher or powder extinguisher as normal extinguisher.

Since vapor, generated from burning batteries may make eyes, nose and throat irritate, be sure to extinguish the fire on the windward side. Wear the respiratory protection equipment in some cases.

6. Accidental release measures

Chemical contents are sealed in metal can. But if the battery is mechanically or electrically abused, contents may leak out. In such case, take action as showing below.

Personal precautions: Temporary inhalation of odor and attaching of electrolyte to skin does not cause serious health hazard. Be sure the ventilation and washing out of electrolyte quickly.

Environmental precautions: Clean up it quickly. Specific environmental precaution is not necessary.

Method and materials for containment and methods and materials for cleaning up:

Contain and collect spillage and place in container for disposal according to local regulations.

7. Handling and storing

Handling	Do not short-circuit, disassemble, deform, heat or incinerate. Do not place battery on metal case, metal plate or antistatic material. In case of multi cell application, replace all batteries to new at once when replacing used batteries. Do not mix the different type of batteries, the new and old batteries of the same type, or the different manufacture of the same type batteries. Do not use batteries for unspecified purposes.
Storage	Be sure to store batteries in well-ventilated, dry and cool conditions. Keep away from water, rain, snow, frost or dew condensation. Do not store batteries near source of heat or nozzle of hot air. Do not store batteries in direct sunshine. Take care not to get wet packing by dew condensation when packing is removed from cold to warm and humid condition. Enough number of fire fighting apparatuses should be installed in warehouse. Keep batteries out of reach of children.

8. Exposure controls and personal protection

There is no need of personal protective equipment on regular handling and storage. In the event, however, a large amount of electrolyte should be released by mechanical or electrical abuse, use the protections as shown below.

Respiratory protection : Mask (with a filter preferably)

Hand protection : Synthetic rubber gloves

Eye protection : Goggles or glasses

9. Physical and chemical properties

State : Solid
Shape : Cylindrical

10. Stability and reactivity

Stability: Stable on regular handling

Conditions to avoid: External short circuit of battery, deformation by crush, exposure at high temperature of more than 100 degree C (may cause heat generation and ignition), direct sunlight, high humidity

Materials to avoid: Substances that cause short circuit.

11. Toxicological information

Since chemicals are contained in a sealed can, there are no hazards.

12. Ecological information

Persistence and degradability	No information available
Mobility in soil	No information available

13. Disposal considerations

Dispose of batteries in accordance with applicable federal, state and local regulations.

For safety precaution, battery should be insulated in proper manner; covering both terminals by tape, wrapping of battery in insulation bag or packing battery in original package is recommended in order to prevent ignition or explosion due to short-circuit.

14. Transportation Information

Lithium metal cells and batteries are classified as Class 9 Dangerous Goods in the United Nations Recommendation, and given UN numbers as shown in the below table. In case of transport of lithium metal cells and batteries, compliance with all the relevant UN regulations in addition to the requirements of United Nations Recommendation is required.

Our battery (listed on section 1) and its shipping package complies with the requirement of UN Manual of Test and Criteria, Part III, subsection 38.3 as well as the requirements described below, so it is permitted to transport.

< Air Transport >

Our battery is applicable to IATA Dangerous Goods Regulations (IATA-DGR) Packing Instruction 968 section IB because it corresponds to either case that the cell – lithium content is not more than 1g or the battery – lithium content is not more than 2g, so it is permitted to transport without using the Packing Group II package when it complies with all requirements of the transport conditions for Section IB.

Our products can be transported by cargo aircraft only since our products are classified into lithium metal batteries.

< Maritime Transport >

Our battery is applicable to the International Maritime Dangerous Goods Code (IMDG-Code) Special provision 188 because it corresponds to either case that the cell – lithium content is not more than 1g or the battery – lithium content is not more than 2g, so it is permitted to transport as Exempted Dangerous Goods when it complies with all requirements of the transport conditions.

Shipping names / Packing requirements

Proper Shipping Name	UN ID No.	Air transport	Maritime transport
Lithium metal batteries	3090	Packing Instruction 968	Special Provision 188
Lithium metal batteries packed with equipment	3091	Packing Instruction 969	Special Provision 188
Lithium metal batteries contained in equipment	3091	Packing Instruction 970	Special Provision 188

Related regulations: Following regulations shall be cited and considered.

	Organization / Issue documents
UN	UN / Recommendations on the Transport of Dangerous Goods • Model Regulations ; 22nd revised edition • Manual of Tests and Criteria: Subsection 38.3; 7th revised edition Amendment 1
Air transport	IATA (International Air Transport Association) / IATA Dangerous Goods Regulations ; 65th Edition * ¹
Maritime transport	IMO (International Maritime Organization) / IMDG Code ; 2022 Edition * ²
Land transport (Intra-European)	RID (International Carriage of Dangerous Goods by Rail) , ADR (International Carriage of Dangerous Goods by Road)
USA	USDOT (US Department of Transportation) / DOT 49 CFR (US law)

Each country, region, or shipping company may have its own regulations, so please check with the shipping company in advance.

15. Applicable legislation

EU Directive 2006/66/EC
EU Regulation 2023/1542
CA Lithium Perchlorate Regulation

16. Other information

Reference

- IATA Dangerous Goods Regulations, latest edition *¹

Notes on this sheet

- *¹ Dangerous Goods Regulations – 65th Edition: International Air Transport Association (IATA)
*² IMDG Code – 2022 Edition: International Maritime Organization (IMO)

This sheet refers to normal use of the product in question. FDK Corp. makes no warranty expressed or implied.