



# Surface Mounting Kit Installer's Guide

## SMK23RU Relay Pattress Surface Mount Pattress For KiddeFyrnetic & Firex models:



1SF23/9HI, 1SF23/9HIR, 2SF23/9HI, 2SF23/9HIR, 3SF23/9HI,  
3SF23/9HIR, 4870, 4881, 4973, 4985, 4899, 4892.

**Operation voltage:** 230V AC 50Hz  
**Output:** 230V AC (50Hz 8A MAX)  
**Relay rating:** 8A 24V DC / 8A 250V AC  
**(resistive load)**

**DC trigger voltage:** 4.5 V ~12V  
**Response time:** 500 msec maximum  
**Release time:** 150 msec maximum

### ENVIRONMENTAL PROTECTION

Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your Local Authority or retailer for recycling advice.



### Application

- This surface mount relay pattress is for use with Kidde Fyrnetics & Firex, Hard Wired Smoke & Heat alarms, where surface cabling is being used, such as in retrofit applications. It can be used, via a suitable relay control, to trigger auxiliary devices such as door closers, warning lights, horns, Warden call systems etc.

- ⚠ All interconnected alarms must be powered off the same fuse/circuit breaker.
- ⚠ Total cable length between alarms must not exceed 250m (273yds) and be 1.5mm in diameter, 3 core and earth (BS6243Y).
- ⚠ The apparatus shall not be exposed to dripping or splashing.
- ⚠ An all pole mains switch with a contact separation of at least 3mm in each pole shall be incorporated in the electrical installation of the building.

### Usage

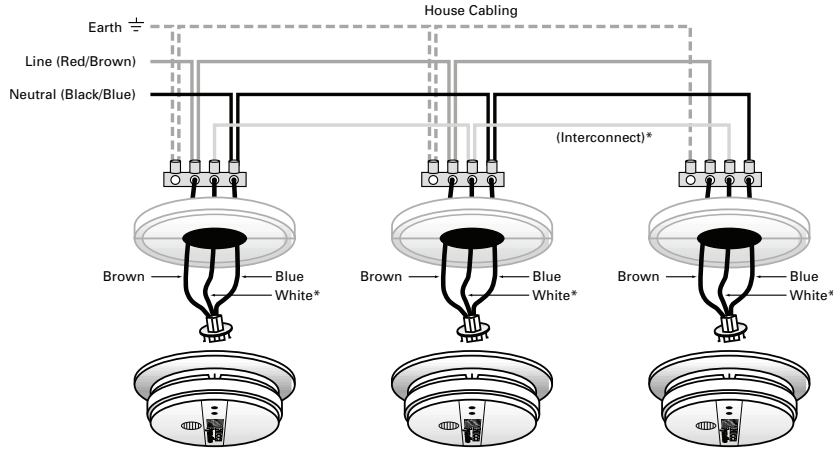
- This is designed for installation by a qualified electrician, in accordance with the current IEE regulations. Failure to install correctly can result in a fatal shock or fire hazard.
- Alarms must be connected direct to the Consumer Unit on a separate circuit – see current Wiring Regulations.
- Knock-outs on the underside and edge of the pattress provide flexibility of cable entry, for ease of use. A small rib on the edge of the pattress lines up with a mark on the alarms base plate, to ensure correct alignment.
- Site and select alarm type in accordance with manufacturer literature/manual shipped with alarm. Also refer to Building Regulation requirements if applicable, plus BS5839 Pt 6.
- Isolate mains power before commencing work.
- Never remove/refit the cable harness whilst mains power is present.
- ⊖ Crossing line and neutral connections or line and interconnect connections will fatally damage all interconnected alarms invalidating the guarantee.
- Never Meggar Test an installation, without disconnecting any connected alarms (this can permanently damage the alarm and invalidates the guarantee).

- ⚠ This apparatus should be connected to the mains with a protective earthing connection.
- ⚠ The intended condition of use prevents this apparatus from being accessed by children.

### Important Notes

- Up to 23 Mains powered Kidde Fyrnetics & Firex Smoke or Heat interconnectable alarms may be wired into this relay unit.
- Any devices hung off this relay must not give an alarm state until relay contacts have been activated for at least 200 milli-seconds.
- All alarms with secondary power back-up continue to function, even if there is loss of mains power, but this relay will not be able to function – it requires a healthy 230V supply.
- By default, this relay will not reset until alarm ceases to sense smoke/heat that has caused the alarm to trigger.
- As in illustration 1, bring mains cabling into pattress terminal block via knock-out selected and fix pattress to ceiling with 2 screws. *(If using dry lining box, select appropriate holes on pattress and secure with machine screws.)*
- Connect flying leads on alarm cable harness to appropriate terminals and ensure polarity is correct.
- Install and test alarm by following guidance in Installer Manual of alarm.

**1**

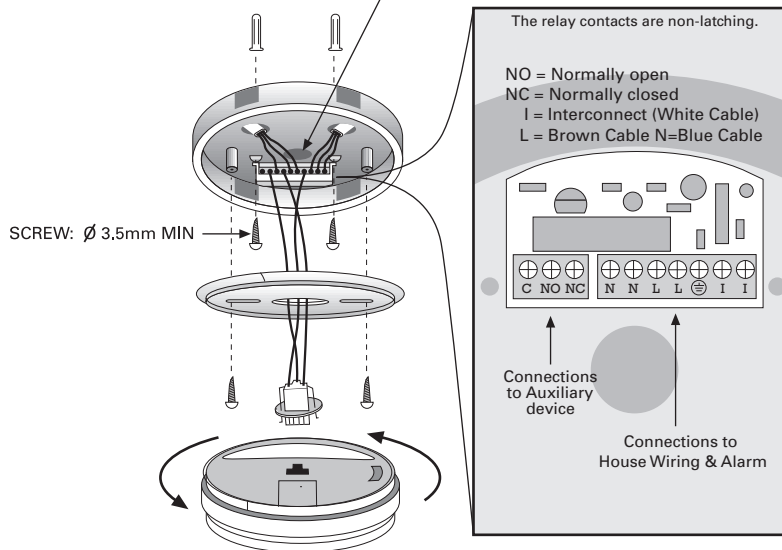


\* Interconnect only – if single alarm installation, leave unconnected with sheathing intact.

**These are double insulated products and do not need earthing – never use earth conductor to interconnect – use 3 core and earth (BS6243Y).**

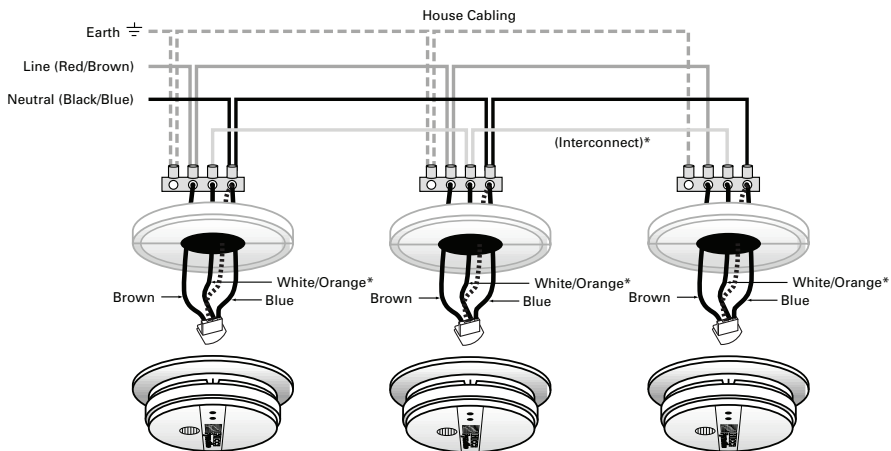
Connect to Terminal Block in ceiling cavity or via Surface Pattress.

Solid core cable strands must be bared to reveal 6-7mm of conductor.



This accessory is also suitable for use with Kidde Slick® alarms.

2

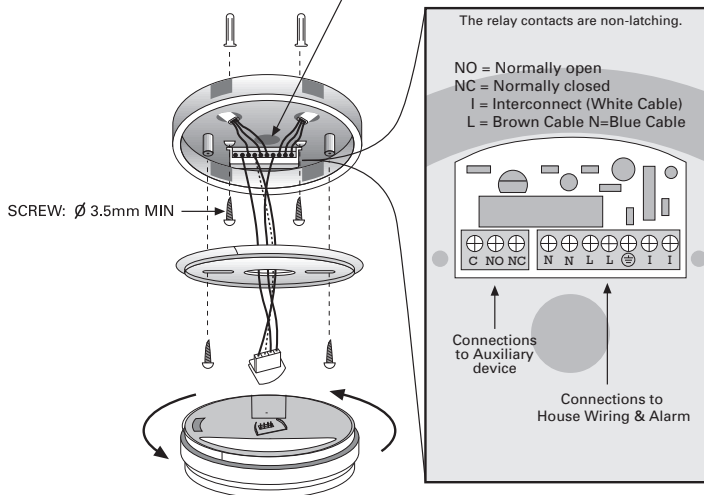


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This accessory is also suitable for use with Firex alarms.

Kidde Safety Europe, Mathisen Way, Colnbrook, SL3 0HB, UK.  
www.smoke-alarms.co.uk

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