

SMK23R Relay Pattress

Surface Mount Pattress For models:

123I, 123/9HI, 123/9HILL, 123/9EI, 223I, 223/9I,
223/9ILL, 223/9HI, 223/9HILL, 323I, 323/9HI, 323/9HILL

Operation volatage: 230V AC 50Hz
DC trigger volatage: 2.0V minimum
Relay rating: 10A 30V DC / 8A 250V AC
(resistive load)

Response time: 15 msec maximum
Release time: 10 msec maximum
User selectable: NO/NC – pulse switchable

Application

- This surface mount relay pattress is for use with KIDDE Fyrnetics, Hard Wired Smoke, Heat and CO 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).

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 without battery back-up must be connected direct to the Consumer Unit on a separately fused spur – see current Building Regulations.
(AC models with battery back-up may be connected off an adjacent lighting circuit).
- 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).

Important Notes

- Up to 23 Mains powered KIDDE Fyrnetics Smoke, Heat or CO 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. The user may cut the jumper reference J1 on the relay's circuit board – see illustration 1 (on reverse), to convert the relay to pulse operation during 2-6 seconds.
- 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.

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