

PHOTOELECTRIC SMOKE ALARMS: MAINS 230V

APPLICATION:

All alarms are manufactured to the highest quality, undergoing over 50 on-line quality control tests and are certified to BS5446 Pt 1. 2000.

The 2002RACEN features a tamper-proof alkaline battery backup with low battery indicator. The 2002RACHE10N features a 10 year lithium battery back up, battery status indicator and a silence button for nuisance alarms.

Current building regulations require one mains powered alarm per level in each new build house. While all smoke alarms are designed to detect smoke, certain sensing technologies react differently to certain types of fire.

Photoelectric sensing technology is generally more sensitive (than ionisation sensing technology) at detecting large particles. Large particles tend to be produced in greater amounts by smouldering fires. These fires may smoulder for hours before bursting into flames.

Ionisation sensing technology is generally more sensitive (than photoelectric sensing technology) at detecting small particles. Small particles tend to be produced in greater amounts by flaming fires. These fires consume combustible materials rapidly and spread quickly.

For optimum protection we recommend the use of both photoelectric and ionisation alarms on each level of a house.

Smoke and heat alarms can be fully integrated into Flexipoint mini-system.

2002RACEN & 2002RACHE10N

MAINS POWERED SMOKE ALARM WITH BATTERY BACK UP



2002RACEN is mains operated with an alkaline battery back up in case of mains failure. An optional locking feature deters the removal of the battery.



2002RACHE10N is mains operated with a tamper-proof 10-year life lithium battery back up, alleviating the risk of battery removal.

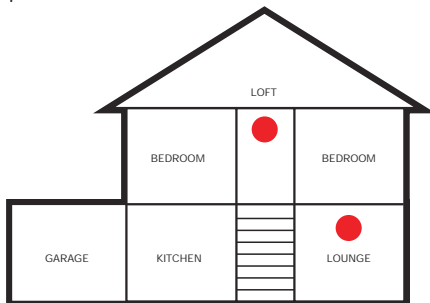
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DESIGN AND INSTALLATION:

The 2002 series is designed for easy installation. Surface mounting pattresses are available for both models, and mains power connection is made via a 'quick connect' wiring harness.

Surface mounting pattresses (SMK839) are recommended in retrofit installations or where surface cabling is used. This enables full compliance with BS7671(1992) Regulations and current IEE (Institute of Electrical Engineers) Regulations.

All models are interconnectable with up to 12 additional smoke alarms and 6 additional devices such as heat alarms plus call point units. If remote signalling is required, a relay version of the surface mounting pattress (SMK839RCB) should be used. This has volt free contacts and is installed in a similar way to the standard pattress.



● Minimum recommended locations for installing smoke alarms



BS 5446
Part 1 2000
Licence No. 7980



2002RACEN/2002RACHE10N

MAINS POWERED SMOKE ALARM WITH BATTERY BACK UP

TECHNICAL SPECIFICATION:

| MODEL | 2002RACEN | 2002RACHE10N |
|-----------------------------------|-----------------------------|---------------------|
| Type | Photoelectric | Photoelectric |
| Operating voltage | 230v AC | 230v AC |
| Power consumption – standby/alarm | 0.030A amps | 0.030A amps |
| Battery back up | YES | YES |
| Battery type | 9v Alkaline | 9v Lithium |
| Typical battery life (as back-up) | 3 – 4 years | 10 years guaranteed |
| Tamper-proof option – alarm | YES | YES |
| Sealed battery | NO | YES |
| Temperature range | 4°C-38°C | 4°C-38°C |
| Humidity range | 10%-90% RH | 10%-90% RH |
| 85dB alarm sounder | YES | YES |
| Test button | YES | YES |
| Silence button | NO | YES |
| Missing battery indicator | YES | Sealed unit |
| Automatic reset | YES | YES |
| Low battery warning | YES | YES |
| LED light standby | Green constant | Green constant |
| LED light alarm | Rapid flashing red | Rapid flashing red |
| Interconnectable | YES | YES |
| Diameter | 140mm | 140mm |
| Weight | 250g | 250g |
| BS5839Pt6 | Grade D | Grade D |
| Pattress | SMK839/SMK839RCB | SMK839/SMK839RCB |
| Product guarantee* | 5 Years *(excludes battery) | 10 Years |

ARCHITECTURAL AND ENGINEERING SPECIFICATION:

The 2002RACEN and 2002RACHE10N incorporate the following features and functions:

- > Photoelectric sensor technology.
- > Protective mesh screen around sensor chamber to prevent ingress of dust and debris and therefore reduce unwanted alarms.
- > Tamper-proof battery compartment prevents deactivation.
- > Visual LED to show power and fully operational unit.
- > Manual full check test button - circuit, horn, battery, sensor.
- > Silence button (2002RACHE10N) to quieten unwanted alarm.
- > Manufactured and tested to meet BS5446 Pt1.2000 – kitemarked
- > All units are CE tested and certified.
- > Unit capable of operating between 4°C and 38°C within a relative humidity of 10% and 90%.
- > For optimum protection, the alarm should be ceiling mounted. (Wall mounting should