Zoneguard ZG800

ZONEGUARD ZG800 is a Grade 3 EN50131 zone omit unit that fits between intruder detection devices and a control panel to allow the devices to be securely and safely omitted and reinstated without generating false alarms. Grade 3 passive infra red detection devices must be fitted with independent anti-masking and tamper detection. The unique design of the ZONEGUARD allows the various 'end of line' resistors for each conditions to be passed through to the control panel unimpeded. In this way the detectors resistors are monitored directly by the panel. Any value of alarm resistor greater than 1k can be used by ZONEGUARD. In its simplest mode ZONEGUARD uses its integral keyswitch to omit or reinstate up to two detection zones.

Other modes are available using the integral keypad or external devices such as biometric reader or a combination of keyswitch and keypad, this is useful where dual responsibility is essential. Two timed entry/exit modes are also available.

General Rules

a. Zones will always omit using an omit function.
b. If any zone has a detection condition during reinstatement, then it must be returned to omitted state and the detection condition cleared and then reinstated.

Benefits and Features

- Complies with EN50131 Grade 3
- Designed for detectors with separate alarm, anti-masking and tamper facilities
- Rear acting Tamper switch
- Omits two detection zones
- Integral high security keyswitch 250,000+ differs
- Integral 9 digit keypad 500,000 differs
- Dual responsibility or combination mode gives over 300million differs
- Zone / Fault LEDs
- Output for remote sounder
- Independent zone omitted relay
- Input for remote devices, keyswitches, shunt locks, biometric readers etc..
- Remote re-instate input.
- User programmable code change
- Timed entry/exit modes
- Non-volatile memory
- Suitable for use with other detection devices such as door contacts
- Local Sounder Options
- Dimensinons - 175mm x 125mm x 60mm tapering to 50mm

Operational Modes

1. Integral keyswitch mode. (Factory default) The keyswitch is a 7-pin tumbler with over 250,000 differs. Grade 3 requirement is for 30,000+ differs.
2. Integral keypad mode. The integral 9-digit keypad using a 6-digit code gives over 500,000 differs. Grade 3 requirement is for 100,000 differs. A 10 second keypad lockout is incorporated after 5 incorrect codes are entered. 'Start again' is also incorporated if no digit is entered within 8 seconds.
3. Remote latching input mode, eg. keyswitch. This would need to be at least 30,000 differs.
4. Remote non-latching input mode, eg. biometric, card reader or similar. Modes 3 and 4 permit the ZONEGUARD to be fitted within one of the protected zones.
5. Combination of integral keypad & integral keyswitch. The 9-digit keypad used with a 4-digit code and the integral keyswitch gives over 3000 million differs. Use of a 4-digit code is only possible in this combination mode. This mode is useful where dual responsibility is desirable.
6. Timed entry/exit, integral keyswitch to execute.
7. Timed entry/exit, integral keypad to execute.

These last two-timed entry/exit modes offer a higher degree of security because the procedure must be completed within a time window and the ZONEGUARD can be sited within one of the protected zones. Any device can be used to activate the time window, this could be a door contact or detector. The activation device should not be considered to be part of the intruder detection system but simply a device to start a procedure.
The ZONEGUARD requires a supply of 12vdc. (Quiescent 120ma in omitted state 200ma peak during programming). The non-volatile memory stores mode settings, time delays and codes in case of power down.

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