

Description

The 4003 non-addressable control and indicating equipment forms the central part of a fire detection and alarm system. The 2-wire 4003 is compatible with Numens non-addressable devices.

The 4003 comes standard with features that allows flexibility and expandability. Default configuration programming facilitates out-of-box installation and rapid commissioning.

The 4003 control and indicating equipment provides fire detection and alarm system designers with an economical product for life safety and property protection applications.

Features

- 2, 4 or 8 detection zones
- Supports up to 32 non-addressable devices per alarm zone circuit
- Configurable non-latching alarm zones¹
- Configurable alarm dependency (zone coincidence detection)²
- Configurable timer to delay output activation (up to 10 min)
- Capacitor end-of-line device
- 3 Access Levels
- Single-person test mode
- Day/night mode configurable
- Manual activation of alarm devices
- Auxiliary DC 24 V output, with short-circuit protection
- Programmable non-addressable alarm output circuit
- 2 unmonitored relay contacts for Fire Alarm Condition outputs
- 1 unmonitored relay contact for Fault Condition output
- 3 voltage-free inputs for remote reset, evacuation start/stop, and Day/Night mode
- Optional detection zone N/O and N/C relay outputs
- Optional remote LED detection zone displays
- Clear alarm zone LED indicators, with a single indicator for Fault, Disable and Test Condition indication
- Metal enclosure in white or red
- Surface mounting
- Supports up to 16 Repeater Panels
- Easy installation

Compliance

4003 control and indicating equipment have the following compliance.

| | EN 54-2 ^a | EN 54-4 ^b | CE ^c |
|---------|----------------------|----------------------|-----------------|
| 4003-01 | ✓ | ✓ | ✓ |
| 4003-02 | ✓ | ✓ | ✓ |
| 4003-03 | ✓ | ✓ | ✓ |
| 4003-04 | ✓ | ✓ | ✓ |
| 4003-05 | ✓ | ✓ | ✓ |
| 4003-06 | ✓ | ✓ | ✓ |

^a EN 54-2 Control and indicating equipment

^b EN 54-4 Power supply equipment

^c Conformité Européene



**4003 non-addressable control and indicating equipment
(white enclosure shown)**

Accessories

The following accessories are compatible with 4003 control and indicating equipment.

| Description | Part Number | Datasheet |
|--|-------------|-----------|
| Network interface card | 6001-03 | 31-0048 |
| Remote LED display card, 16 indicators | 6001-04 | 31-0049 |
| Detection zone 8-relay output card | 6001-07 | 31-0052 |
| Repeater panel, 8 detection zones, DC 24 V | 4001-04 | 31-0053 |

¹ If used, this feature does not comply with EN 54-2.

² This feature has not been independently assessed for conformance to EN 54-2.

Specifications

| Power Supply | 4003-01 4003-04 | 4003-02 4003-05 | 4003-03 4003-06 |
|--|--|--------------------|--------------------|
| Operating voltage | AC (85 ~ 260) V / 50/60 Hz | | |
| Mains supply current limit | 720 mA @ AC 230 V | | |
| Mains supply fuse | 4 A / AC 250 V slow blow (20 mm) | | |
| Mains supply fault threshold voltage | ≤ AC 60 V | | |
| Power supply | 2.2 A @ DC 28.5 V | | |
| Quiescent current (I_{min}) | 45 mA | | |
| Maximum continuous output current ($I_{b, max}$) | 0.425 A | | |
| Maximum continuous output current ($I_{b, max}$) | 1.3 A | | |
| Standby battery maximum capacity (2 × DC 12 V) | 7.2 Ah | | |
| Maximum battery current draw | 1.5 A @ maximum operating temperature | | |
| Battery fuse | 6 A resettable (electronic fuse) | | |
| Battery fault threshold voltage | < DC 20 V | | |
| Battery fault threshold internal resistance | 0.5 Ω | | |
| Detection Zones | | | |
| Detection zone circuits | 2 | 4 | 8 |
| Number of connected devices per detection zone circuit | 32 | | |
| Detector zone quiescent current | 5 mA | | |
| Detector zone alarm current | 40 mA | 80 mA | 160 mA |
| Detector zone wiring characteristics (max) | 40 Ω / 0.47 μF | | |
| Detection zone end-of-line capacitor | 10 μF / DC 50 V | | |
| Manual call point resistor value | (470 ~ 689) Ω | | |
| Alarm Zones | | | |
| Alarm zone outputs | 2 | | |
| Alarm zone current | 700 mA | | |
| Alarm zone end-of-line resistor | 100 kΩ | | |
| Alarm zone monitoring | Open- and short-circuit | | |
| Alarm zone voltage (max) | DC 27.5 V | | |
| Alarm zone fuse | 1.1 A resettable (electronic fuse) | | |
| Ancillary Outputs | | | |
| Number of programmable output relays | 2 | | |
| Ancillary fire C/O relay | 2 × (1.0 A @ DC 30 V / 1 A @ AC 240 V) | | |
| Ancillary fault N/C relay | 1.0 A @ DC 30 V / 1 A @ AC 240 V | | |
| Auxiliary supply | DC (12.0 ~ 28.2) V @ 200 mA | | |
| Auxiliary supply at ($I_{b, min}$) | DC (19.5 ~ 28.6) V @ 0 mA | | |
| Ancillary Inputs | | | |
| Evacuation start / stop | Non-latching, voltage-free | | |
| Day / Night mode | Non-latching, voltage-free | | |
| Remote reset | Non-latching, voltage-free | | |
| Miscellaneous | | | |
| Terminal wiring | (0.4 ~ 2.5) mm ² | | |
| Operating temperature | (0 ~ +50) °C | | |
| Operating humidity | (0 ~ 95) % RH, non-condensing | | |
| Storage temperature | (-25 ~ +80) °C | | |
| Storage humidity | (0 ~ 98) % RH, non-condensing | | |
| Dimensions (h × w × d) | (400 × 330 × 85) mm | | |
| Weight (excluding batteries) | 4.8 kg | | |

Ordering Information

| Part Number | 2 Detection Zone Circuits | 4 Detection Zone Circuits | 8 Detection Zone Circuits | White Enclosure | Red Enclosure |
|-------------|---------------------------|---------------------------|---------------------------|-----------------|---------------|
| 4003-01 | ✓ | — | — | ✓ | — |
| 4003-02 | — | ✓ | — | ✓ | — |
| 4003-03 | — | — | ✓ | ✓ | — |
| 4003-04 | ✓ | — | — | — | ✓ |
| 4003-05 | — | ✓ | — | — | ✓ |
| 4003-06 | — | — | ✓ | — | ✓ |

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