# KE-IO3101

## Inteligentny adresowalny moduł 1 wyjścia z izolatorem zwarć

### General

The innovative Excellence series of intelligent addressable devices offers advanced features for reliability and peace of mind. Coupled with features for ease of installation and maintenance on new fire detection systems, it's a perfect match for exceptional overall performance.

The Excellence series input/output devices are designed to provide much needed flexibility to input monitoring and output switching. These modules, combined with the powerful features of a Kidde Excellence series addressable CIE, give customers versatility for diverse applications.

The KE-IO3101 is an Excellence series addressable relay output unit with integrated short circuit loop isolation. Powered directly from the Excellence loop, it offers a magnetically latched relay output.

### Applications

The KE-IO3101 is designed for controlling building services such as air conditioning and smoke extraction during fire conditions. It is ideal for the control of 3rd party equipment such as door release circuits, emergency shutdown of high risk services such as gas or oil supply valves in boiler rooms. The relay may be programmed to be activated by any single device, groups of devices or all system devices. All types of system input signals can be arranged to operate the KE-IO3101 which can include control panel indicators, zonal outputs, call points or detectors.

The KE-IO3101 may be located anywhere on the Kidde Excellence loop where it occupies only 1 of 128 available addresses. Housed in a low profile molding, the interface is designed to clip directly onto a standard DIN rail fixing or be installed in a suitable wall mount housing. It is intended for installation inside the equipment to be switched, thereby offering savings in installation costs compared with long, auxiliary circuit wiring runs from the control panel.

### Installation & Maintenance Features

The KE-IO3101 is connected to the CIE via a 2-wire communication loop that carries both power and control data. Tri-Colour LED indicators positioned on the front face of the unit provide the engineer with clear identification of the operational state of the unit, as well as the status of any input and/or output control. Additional manual test facilities on the unit allows local testing without the need for control panel intervention, saving time during installation and commissioning.

Excellence series devices use an advanced digital data communications protocol with extensive error correction algorithms to ensure system reliability.




### Szczegóły

- Zasilany z pętli, bez dodatkowych kosztów zasilaczy i instalacji
- Zapewnia adresowalne, bezpotencjałowe wyjście przekaźnikowe do sterowania urządzeniami zewnętrznymi
- Wyjście normalnie otwarte / normalnie zamknięte, pełna elastyczność instalacji
- Przekaźnik z blokadą magnetyczną zmniejszający obciążenie pętli
- Programowalna aktywacja dowolnym pobudzeniem wejściowym
- Montaż DIN lub naścienny zapewniający elastyczność instalacji
- Funkcja testowania lokalnego ułatwiająca weryfikację działania
- Lokalny, czytelny wskaźnik stanu pracy ułatwiający konserwację

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## Specyfikacja techniczna

### General

| | |
|---|---|
| Status indication | Trójkolorowa dioda LED |
| Compatibility | Systemy Kidde Commercial Excellence |
| Addressing method | DIP Switches |
| Address range | 1 do 128 |

### Electrical

| | |
|---|---|
| Power supply type | Loop powered |
| Operating voltage | 17 do 29 VDC |
| Current consumption | 250 µA @ 24 VDC (spoczynek)<br>2,5 mA @ 24 VDC (aktywacja) |
| Communication voltage | 4 do 11 V (pulsujące) |

### Output

| | |
|---|---|
| Output quantity | 1 |
| Output type and rating | Przekaźnik, 2 A @ 30 VDC (obciążenie oporowe) |
| Cable specification | 0.13 to 3.31 mm² (12 to 26 AWG)<br>shielded/unshielded twisted-pair |

### Isolation

| | |
|---|---|
| Type | Negative line break |
| Loop current | 2,5 mA (aktywne) |
| Series resistance | <0,08 Ω |
| Switch current | 1,05 A (ciągłe) / 1,4 A (krótkie) |
| Leakage current | <1 mA |
| Isolation voltage | 14 do 15,5 VDC |
| Reconnect voltage | 14 do 15,5 VDC |
| Impedance requirements | ≤32 devices between isolators |
| Quantity per loop | 128 |

### Physical

| | |
|---|---|
| Physical dimensions | 87 x 80  x 26 mm (S x W x G) |
| Net weight | 60 g |
| Colour | Signal white (RAL 9003) |
| Mounting type | DIN-rail, Surface mount, Wall mount |
| Material | PC / ABS |
| Cable specification | Loop: 0.13 to 3.31 mm² (12 to 26 AWG)<br>shielded/unshielded twisted-pair < 52 Ω , < 500 nF |

### Environmental

| | |
|---|---|
| Vandal proof | No |
| Operating temperature | -22 do +55°C |
| Storage temperature | -30 do +65°C |
| Relative humidity | 10 do 93% bez kondensacji |
| Environment | Indoor |
| IP rating | IP30 |

### Regulatory

| | |
|---|---|
| Compliancy | CE, REACH, RoHS 3, WEEE |
| Certification | CPR |
| Standards | EN54-17, EN54-18 |

### Wyroby zgodne

| Kategoria | Odniesienie | Opis |
|---|---|---|
| Enclosures | N-IO-MBX-1 | DIN Rail Module Box |
| Enclosures | N-IO-MBX-2 | DIN Rail Module Box |
| Interface unit | N-IO-SBX-1G | Single module box with DIN rail (small) |
| Interface unit | N-IO-SBX-2G | Single module box with DIN rail (large) |

KIDDE COMMERCIAL

Będąc firmą innowacyjną, Kidde Global Solutions zastrzega sobie prawo do zmian w specyfikacji wyrobów bez uprzedzenia. W celu uzyskania najnowszych specyfikacji prosimy o wizytę na stronach pl/firesecurityproducts.com lub kontakt z przedstawicielem handlowym.

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