# KE-IO3101

## Excellence series intelligent addressable 1 output unit with isolator

### 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.

### Details

- Loop powered, saving external supply and installation cost
- Provides an addressable, potential free change over relay output for 3rd party equipment control
- EN14637 / BS7273 support for fail to safe operation for emergency doors (as of June '26)
- Normally Open / Normally Closed programmable for full installation flexibility
- Magnetic latched output relay to reduce loop loading
- Freely programmable to operate from any combination of input triggers
- DIN or wall mounted for installation flexibility
- Local test features for ease of validation
- Local, clear operation status indication for ease of maintenance

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## Excellence series intelligent addressable 1 output unit with isolator

## Technical specifications

### General

| | |
|---|---|
| Status indication | Tri-coloured LEDs |
| Compatibility | Kidde Commercial Excellence Systems |
| Addressing method | Mikroprzełączniki |
| Address range | 1 to 128 |

### Electrical

| | |
|---|---|
| Power supply type | Zasilanie pętlą |
| Operating voltage | 17 to 29 VDC |
| Current consumption | 250 µA @ 24 VDC (quiescent)<br>2.5 mA @ 24 VDC (active) |
| Communication voltage | 4 to 11 V (pulsed) |

### Output

| | |
|---|---|
| Output quantity | 1 |
| Output type and rating | Relay, 2 A @ 30 VDC (resistive load) |
| 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 (active) |
| Series resistance | <0.08 Ω |
| Switch current | 1.05 A (continuous) / 1.4 A (short) |
| Leakage current | <1 mA |
| Isolation voltage | 14 to 15.5 VDC |
| Reconnect voltage | 14 to 15.5 VDC |
| Impedance requirements | ≤ 32 devices between isolators |
| Quantity per loop | 128 |

### Physical

| | |
|---|---|
| Physical dimensions | 87 x 80  x 26 mm (W x H x D) |
| Net weight | 60 g |
| Colour | Biel sygnałowa (RAL 9003) |
| Mounting type | DIN-skinne, Montaż nawierzchniowy, Vægmontering |
| 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 to +55°C |
| Storage temperature | -30 to +65°C |
| Relative humidity | 10 to 93% noncondensing |
| Environment | Indendør |
| IP rating | IP30 |

### Regulatory

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

### Compatible products

| Category | Reference | Description |
|---|---|---|
| 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) |

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As a company of innovation, Kidde Global Solutions reserves the right to change product specifications without notice. For the latest product specifications, visit firesecurityproducts.com online or contact your sales representative.

Last updated on 11 August 2026 - 14:34