# KE-IU3111-ZME

**Excellence series intelligent addressable zone monitoring unit with isolator (ext. power)**

## 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-IU3111-ZME is an Excellence series addressable 2-wire zone monitor with integrated short circuit loop isolation. It offers an interface between conventional fire devices and an Excellence series addressable CIE, and enables the CIE to monitor the operation of up to 32 conventional devices in standard, or up to 20 detectors in intrinsically safe configurations.




## Applications

The KE-IO3111-ZME is designed to allow the inclusion of any conventional fire zone into an Excellence addressable loop. With selectable support for multiple operating modes, it offers unmatched flexibility. Supported modes include:

Regulatory
* EN54-13 and BS5839 (head-out)
Special applications
* CleanMe™ (maintenance), Intrinsic safe
Standard
* Detector, manual call point or mixed zones

The KE-IU3111-ZME 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.

## Installation & Maintenance Features

The KE-IU3111-ZME is connected to the CIE via a 2-wire communication loop that carries the 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

- Externally powered, allowing for the maximum number of devices to be installed on the loop
- Provides an addressable, convectional zone for standard or intrinsic safe applications
- Provides full zone supervision for standard, EN54-13 and BS5839 zone operation
- Supports CleanMe™ for reporting maintenance alerts from conventional detectors
- Supports detector only, MCP only and mixed zones
- Supports DIN or wall mounting for installation flexibility
- Local, clear operation status indication for ease of maintenance
- Local test features for ease of validation

# KE-IU3111-ZME

## Excellence series intelligent addressable zone monitoring unit with isolator (ext. power)

## Technical specifications

### General

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

### Electrical

| | |
|---|---|
| Power supply type | 24 VCC |
| Operating voltage | 17 to 29 VDC (loop)<br>22 to 28 VDC (external) |
| Current consumption | From the loop: 250 µA @ 24 VDC (standby), 2.5 mA @ 24 VDC (alarm)<br>From the external supply: 12 mA @ 24 VDC (standby), 32 mA @ 24 VDC (alarm) |
| Communication voltage | 4 to 11 V (pulsed) |
| Cable specification | PSU: 0.5 to 4.9 mm² shielded/unshielded twisted-pair |

### Input

| | |
|---|---|
| Input quantity | 1 |
| Input type and rating | Supervised zone, <35 mA |
| Input states | Activo, Fault, Normal, Abierto, Corto |
| Supervisory voltage | 14.3 to 23 VDC (application specific) |
| Alarm resistor | 100 Ω ±5% (MCP) / 160 to 470 Ω ±5% (Detector) |
| Termination resistor | Application specific |
| Cable specification | Zone: 0.5 to 4.9 mm² shielded/unshielded twisted-pair, < 2 km |

### Output

| | |
|---|---|
| Output quantity | 1 |
| Output type and rating | NO/COM/NC relay, 2 A @ 30 VDC (resistive load) |
| Cable specification | Relay: 0.13 to 3.31 mm² shielded/unshielded twisted-pair |

### Isolation

| | |
|---|---|
| Type | Salto de línea negativo |
| 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 | 148 x 102 x 27 mm |
| Net weight | 145 g |
| Colour | Señal blanca (RAL 9003) |
| Mounting type | DIN-skinne, Montaje en Superficie, Vægmontering |
| Material | PC / ABS |
| Cable specification | Loop: 0.13 to 3.31 mm² 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, Udendørs |
| IP rating | IP30 (without enclosure) |

### Regulatory

| | |
|---|---|
| Compliancy | CE, REACH, RoHS 3, WEEE |
| Certification | CPR |
| Standards | EN54-13, 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-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.

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