

KE-IU3111-ZME

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-IU3111-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

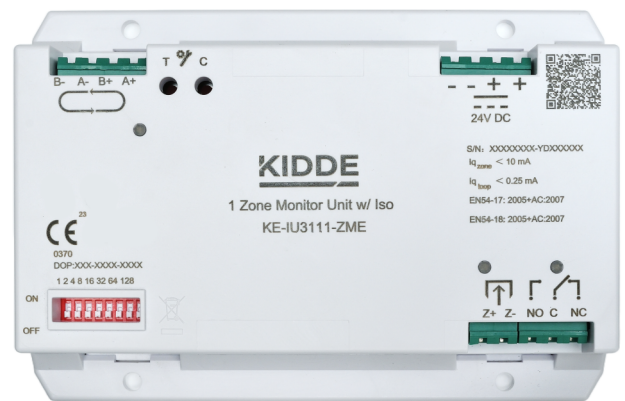
* Detector, manual call point or mixed zones

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

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Technical specifications

General

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

Electrical

Power supply type	24 VDC
Operating voltage	17 to 29 VDC 17.5 to 18.5 VDC (zone)
Current consumption	< 15 mA (standby) < 40 mA (alarm) < 3.6 mA (remote Indicator)
Communication voltage	4 to 11 V (pulsed)

Input

Input quantity	1
Input type and rating	Supervised - 19.4 mA max.
Supervisory voltage	17.5 to 18.5 VDC
Termination resistor	3.9 k Ω , ¼ W, 5%
Zone resistance - normal mode	< 40 Ohm
Zone resistance - intrinsic safe mode	< 26 Ohm
Cable specification	0.5 to 4.9 mm ² (10 to 20 AWG) shielded/unshielded twisted-pair

Output

Output quantity	1
Output type and rating	Unsupervised, 3.6 mA
Cable specification	0.13 to 3.31 mm ² (12 to 26 AWG) 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	\leq 32 devices between isolators
Quantity per loop	128

Physical

Physical dimensions	175 x 124 x 51 mm
Net weight	325 g
Colour	White
Mounting type	DIN-rail, Surface mount, Wall mount
Material	PC / ABS
Cable specification	Loop: 0.13 to 3.31 mm ² (12 to 26 AWG) 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	Indoor
IP rating	IP30

Regulatory

Compliance	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



As a company of innovation, Carrier Fire & Security 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 2 January 2024 - 16:25