

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-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

Intelligent addressable zone monitoring unit with isolator (ext. power)

Technical specifications

Status indication	Tri-coloured LEDs	
Compatibility	Kidde Commercial Excellence Systems	
Addressing method	DIP Switches	
Address range	1 to 128	
Et a de la contraction de la c		
Electrical	0.11/0.0	
Power supply type	24 VDC	
Operating voltage	17 to 29 VDC (loop) 22 to 28 VDC (external)	
Current consumption	From the loop: 250 µA @ 24 VDC (standby), 2.5	
, , , , , , , , , , , , , , , , , , ,	mA @ 24 VDC (alarm)	
	From the external supply: 12 mA @ 24 VDC	
	(standby), 32 mA @ 24 VDC (alarm)	
Cable specification	PSU: 0.5 to 4.9 mm ² shielded/unshielded twisted	
	pair	
Input		
Input quantity	1	
Input type and rating	Supervised zone, <35 mA	
Input states	Active, Fault, Normal, Open, Short	
Supervisory voltage	14.3 to 23 VDC (application specific)	
Alarm resistor	$100~\Omega~\pm5\%$ (MCP) / 160 to $470~\Omega~\pm5\%$ (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 mm ² shielded/unshielded	
	twisted-pair	
Isolation		
Туре	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 requirement	s≤32 devices between isolators	
Quantity per loop	≤128	
Maximum impedance to	13 Ω	
first isolator		
Maximum impedance	13 Ω	
between isolators		
Physical		
Dhysical dimensisses	148 x 102 x 27 mm	
Physical dimensions	145 g	
Net weight	145 g	
	145 g Signal white (RAL 9003)	
Net weight		
Net weight Colour	Signal white (RAL 9003)	
Net weight Colour Mounting type	Signal white (RAL 9003) DIN-rail, Surface mount, Wall mount	

Environmental

No	
-22 to +55°C	
-30 to +65°C	
10 to 93% noncondensing	
Indoor, Outdoor	
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



twisted-pair (< 52 Ω / 500 nF)

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.