

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, conventional 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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Especificações técnicas

Geral	
Indicação de estado	Tri-coloured LEDs
Compatibilidade	Kidde Commercial Excellence Systems
Método de endereçamento	DIP Switches
Intervalo de endereços	1 to 128

Elétrica	
Tipo de fonte de alimentação	24 VDC
Tensão de operação	17 to 29 VDC (loop) 22 to 28 VDC (external)
Consumo de corrente	From the loop: 250 μ A @ 24 VDC (standby), 2.5 mA @ 24 VDC (alarm) From the external supply: 12 mA @ 24 VDC (standby), 32 mA @ 24 VDC (alarm)

Entrada	
Quantidade de entradas	1
Tipo de entrada e operação	Supervised zone, <35 mA
Estados de entrada	Ativo, Fault, Normal, Aberto, Curto
Tensão de supervisão	14.3 to 23 VDC (application specific)
Resistência de alarme	100 Ω \pm 5% (MCP) / 160 to 470 Ω \pm 5% (Detector)
Terminação	Application specific

Saída	
Quantidade de saídas	1
Tipo de output e operação	NO/COM/NC relay, 2 A @ 30 VDC (resistive load)

Isolamento	
Tipo	Interrupção linha negativa
Corrente de loop	2.5 mA (active)
Resistência da série	<0.08 Ω
Corrente de comutação	1.05 A (continuous) / 1.4 A (short)
Corrente de fuga	<1 mA
Tensão de isolamento	14 to 15.5 VDC
Tensão para retomar ligação	14 to 15.5 VDC

Físico	
Dimensões físicas	148 x 102 x 27 mm
Peso líquido	145 g
Cor	Sinal branco (RAL 9003)
Tipo de montagem	Calha DIN, Montagem em superfície, Montagem em parede
Material	PC / ABS
Especificações do cabo	Loop: 0.13 to 3.31 mm ² shielded/unshielded twisted-pair (< 52 Ω / 500 nF)

Ambiental	
À prova de vandalismo	Não
Temperatura de operação	-22 to +55°C
Temperatura de armazenamento	-30 to +65°C
Humidade relativa	10 to 93% noncondensing
Ambiente	Interior, Exterior
Classificação IP	IP30 (without enclosure)

Regulamentação	
Conformidade	CE, REACH, RoHS 3, WEEE
Certificação	CPR
Standards	EN54-13, EN54-17, EN54-18

Isolation	
Impedance requirements	\leq 32 devices between isolators
Quantity per loop	\leq 128
Maximum impedance to first isolator	13 Ω
Maximum impedance between isolators	13 Ω

Output	
Cable specification	Relay: 0.13 to 3.31 mm ² shielded/unshielded twisted-pair

Input	
Cable specification	Zone: 0.5 to 4.9 mm ² shielded/unshielded twisted-pair, < 2 km

Electrical	
Cable specification	PSU: 0.5 to 4.9 mm ² shielded/unshielded twisted-pair

Produtos compatíveis		
Categoria	Referência	Descrição
Caixas	N-IO-MBX-1	
Caixas	N-IO-MBX-2	Armário para Módulos com calha DIN



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