

KE-IO3144

Intelligent addressable 4 input / 4 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-IO3144 an Excellence series addressable 4 input/4 output unit with integrated short circuit loop isolation. Powered directly from the Excellence loop, it offers 4 inputs with selectable line supervision and 4 magnetically latched relay outputs.

Applications

The KE-IO3144 is designed to monitor any potential free contacts, and independently switch outputs for control of equipment. Any normally open or normally closed contact may be selected to be supervised or unsupervised. Normal, open, passive, active or short circuit states on the input are reported back to the CIE where, depending on the programming, separate actions may be taken for any of these states. Every output is a magnetically latched relay providing a potential free change-over contact. The output relays do not require power in either the active or passive states, saving on overall loop loading.

The KE-IO3144 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-IO3144 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 4 individually programmable, addressable inputs and outputs on a single address, saving address locations on the loop
- Fully supervised, bi-level inputs for pre-alarm and alarm supervision using a single input
- Normally Open / Normally Closed programmable for full installation flexibility
- Magnetic latched output relays to reduce loop loading
- Freely programmable to operate from any combination of input triggers
- Local test features for ease of validation
- Local, clear operation status indication for ease of maintenance

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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	Alimentado por loop
Tensão de operação	17 to 29 VDC
Consumo de corrente	2.5 mA @ 24 VDC (active) 350 µA @ 24 VDC (standby)
Tensão de comunicação	4 to 11 V (pulsed)

Entrada

Quantidade de entradas	4
Tipo de entrada e operação	Bi-level, Supervised
Estados de entrada	Ativo, Fault, Normal, Aberto, Curto
Resistência de pré-alarme	3 kΩ to 7 kΩ
Resistência de alarme	0.3 kΩ to 3 kΩ
Terminação	15 kΩ, ¼ W, 1%

Saída

Quantidade de saídas	4
Tipo de output e operação	Relay, 2A @ 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 (W x H x D)
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 (12 to 26 AWG) 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
Classificação IP	IP30

Regulamentação

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

Isolation

Impedance requirements	≤32 devices between isolators
Quantity per loop	128

Input

Cable specification	0.5 to 4.9 mm ² (10 to 20 AWG) shielded/unshielded twisted-pair
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Output

Cable specification	0.13 to 3.31 mm ² (12 to 26 AWG) shielded/unshielded twisted-pair
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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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