

KE-IO3101

Unidade Inteligente Endereçável de 1 Saída com isolador

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-IO3101 is an Excellence series addressable relay output unit with integrated short circuit loop isolation. Powered directly from the Excellence loop, it offers a magnetically latched relay output.

Applications

The KE-IO3101 is designed for controlling building services such as air conditioning and smoke extraction during fire conditions. It is ideal for the control of 3rd party equipment such as door release circuits, emergency shutdown of high risk services such as gas or oil supply valves in boiler rooms. The relay may be programmed to be activated by any single device, groups of devices or all system devices. All types of system input signals can be arranged to operate the KE-IO3101 which can include control panel indicators, zonal outputs, call points or detectors.

The KE-IO3101 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. It is intended for installation inside the equipment to be switched, thereby offering savings in installation costs compared with long, auxiliary circuit wiring runs from the control panel.

Installation & Maintenance Features

The KE-IO3101 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.



Detalhes

- Loop powered, saving external supply and installation cost
- Provides an addressable, potential free change over relay output for 3rd party equipment control
- Normally Open / Normally Closed programmable for full installation flexibility
- Magnetic latched output relay to reduce loop loading
- Freely programmable to operate from any combination of input triggers
- DIN or wall mounted for installation flexibility
- 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	LEDs Tricolores
Compatibilidade	Kidde Commercial Excellence Systems
Método de endereçamento	DIP Switches
Intervalo de endereços	1 a 128

Elétrica

Tipo de fonte de alimentação	Alimentado por loop
Tensão de operação	17 a 29 VDC
Consumo de corrente	250 μ A @ 24 VDC (quiescent) 2.5 mA @ 24 VDC (active)
Tensão de comunicação	4 a 11 V (pulsed)

Saída

Quantidade de saídas	1
Tipo de output e operação	Relé, 2A @ 30 VDC (carga resistiva)

Isolamento

Tipo	Interrupção linha negativa
Corrente de loop	2.5 mA (activa)
Resistência da série	< 0.08 Ω
Corrente de comutação	1.05 A (contínuo) / 1.4 A (curto)
Corrente de fuga	< 1 mA
Tensão de isolamento	14 a 15.5 VDC
Tensão para retomar ligação	14 a 15.5 VDC

Físico

Dimensões físicas	87 x 80 x 26 mm (W x H x D)
Peso líquido	60 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 a +55°C
Temperatura de armazenamento	-30 a +65°C
Humidade relativa	10 a 93% sem condensação
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

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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