KE-IO3122

Unidade Inteligente Endereçável de 2 Saída / 2 Entradas, 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-IO3122 an Excellence series addressable 2 input/2 output unit with integrated short circuit loop isolation. Powered directly from the Excellence loop, it offers 2 inputs with selectable line supervision and 2 magnetically latched relay outputs.



Applications

The KE-IO3122 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-IO3122 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-IO3122 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

- Alimentado pelo loop, reduzindo custos de instalação
- Fornece 2 entradas e saídas individualmente programáveis e endereçáveis num único endereço, poupando endereços do loop
- Entradas de dois níveis, totalmente supervisionadas, com supervisão de pré-alarme e alarme utilizando uma única entrada
- Programável normalmente aberto / normalmente fechado para total flexibilidade de instalação
- Relés de saída com retenção magnética para reduzir a carga do loop
- Livremente programável para atuar a partir de qualquer combinação de entrada
- Caraterísticas de teste locais para facilitar a validação
- Indicação local e clara do estado de funcionamento para facilitar a manutenção

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Especificações técnicas

General

Status indication	LEDs tricolores
Compatibility	Sistemas Excellence da Kidde Commercial
Addressing method	Interruptores DIP
Address range	1 a 128

Electrical

Power supply type	Alimentado por bucle
Operating voltage	17 a 29 VDC
Current consumption	2.5 mA @ 24 VDC (activo) 300 µA @ 24 VDC (standby)
Communication voltage	4 to 11 V (impulso)

Input

Input quantity	2
Input type and rating	Bi-nível, Supervisionado
Input states	Activo, Fault, Normal, Abierto, Corto
Pre-alarm resistor	3 kΩ a 7 kΩ
Alarm resistor	7 kΩ a 27 kΩ
Termination resistor	15 kΩ, ¼ W, 1%
Cable specification	0.5 to 4.9 mm² (10 to 20 AWG) shielded/unshielded twisted-pair

Output

Output quantity	2
Output type and rating	Relé, 2 A @ 30 VDC (carga resistiva)
Cable specification	0.13 to 3.31 mm² (12 to 26 AWG) shielded/unshielded twisted-pair

Isolation

Type	Salto de línea negativo
Loop current	2.5 mA (activo)
Series resistance	<0.08 Ω
Switch current	1.05 A (constante) / 1.4 A (curto)
Leakage current	<1 mA
Isolation voltage	14 a 15.5 VDC
Reconnect voltage	14 a 15.5 VDC
Impedance requirements	≤32 devices between isolators
Quantity per loop	128

Physical

Physical dimensions	148 x 102 x 27 mm (L x A x P)
Net weight	135 g
Colour	Señal blanca (RAL 9003)
Mounting type	DIN-Hutschiene, Montaje en Superficie, Wandmontage
Material	PC / ABS
Cable specification	Loop: 0.13 to 3.31 mm² (12 to 26 AWG) shielded/unshielded twisted-pair < 52 Ω , < 500 nF

Environmental

Vandal proof	No
Operating temperature	-22 a +55°C
Storage temperature	-30 a +65°C
Relative humidity	10 a 93% sem condensação
Environment	Drinnen
IP rating	IP30

Regulatory

Compliancy	CE, REACH, RoHS 3, WEEE
Certification	CPR
Standards	EN54-17, EN54-18

Produtos compatíveis

Categoria	Referência	Descrição
Enclosures	N-IO-MBX-1	Caixa para módulos de calha DIN
Enclosures	N-IO-MBX-2	Armário para Módulos com calha DIN

KIDDE COMMERCIAL

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