

KE-IO3101-M

Intelligent addressable mains switching 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-IO3101-M is an Excellence series addressable mains relay unit with integrated short circuit loop isolation. Powered directly from the Excellence loop, it offers double pole, potential free, change-over relay contacts.

Applications

The KE-IO3101-M is designed for controlling the main electrical supply of ancillary, mains powered equipment. The unit is ideal for the control of door release circuits, extract fans and dampers. 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-M which can include control panel indicators, zonal outputs, call points or detectors. Both normally closed and normally open relay connections are provided, which if wired incorrectly, can simply be reconfigured in the programming of the unit.

The KE-IO3101-M 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.

Installation & Maintenance Features

The KE-IO3101-M 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 an addressable, mains rated output with double pole, potential free change over contacts
- Normally Open / Normally Closed programmable for full installation flexibility
- Freely programmable to operate from any combination of input triggers
- DIN or wall mounted
- Local test features for ease of validation
- Local, clear operation status indication for ease of use

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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	300 μ A @ 24 VDC (quiescent) 2.5 mA @ 24 VDC (active)
Tensão de comunicação	4 to 11 V (pulsed)

Saída

Quantidade de saídas	1 x Dual
Tipo de output e operação	Double pole, change over - 1 A @ 60 VDC / 5 A @ 250 VAC (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	109 x 88 x 40 mm (W x H x D)
Peso líquido	220 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	\leq 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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