KE-IO3101

Excellence series intelligent addressable 1 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 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 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.

Support for fail safe emergency exit doors as stipulated under EN14637 & BS7273 is configurable from the CIE allowing the relay to change state in case of power failures or loop faults. This functionality is available on all modules manufactured after June 2026.

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.



Détails

- Loop powered, saving external supply and installation cost
- Provides an addressable, potential free change over relay output for 3rd party equipment control
- EN14637 / BS7273 support for fail to safe operation for emergency doors (as of June '26)
- 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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Spécifications techniques

Général

Indication d'état	Tri-coloured LEDs
Compatibilité	Kidde Commercial Excellence Systems
Méthode d'adressage	DIP Switches
Plage d’adresses	1 to 128

Électrique

Type de bloc d’alimentation	Alimenté en boucle
Tension de fonctionnement	17 to 29 VDC
Consommation de courant	250 µA @ 24 VDC (quiescent) 2.5 mA @ 24 VDC (active)
Tension de communication	4 to 11 V (pulsed)

Sortie

Quantité des sorties	1
Type de sortie et classe	Relay, 2 A @ 30 VDC (resistive load)

Isolation

Type	Negative line break
Isolement boucle de masse	2.5 mA (active)
Types de résistance	<0.08 Ω
Interrupteur de courant	1.05 A (continuous) / 1.4 A (short)
Courant de fuite	<1 mA
Tension d’isolation	14 to 15.5 VDC
Reconnecter la tension	14 to 15.5 VDC
Impedance requirements	≤32 devices between isolators
Quantity per loop	128

Caractéristiques physiques

Dimensions physiques	87 x 80 x 26 mm (W x H x D)
Poids net	60 g
Couleur	Signal blanc (RAL 9003)
Type de montage	Rail DIN, Montage en surface, Fixation murale
Matériel	PC / ABS
Spécification du câble	Loop: 0.13 to 3.31 mm² (12 to 26 AWG) shielded/unshielded twisted-pair < 52 Ω , < 500 nF

Environnement

Protégé contre le vandalisme	No
Température de fonctionnement	-22 to +55°C
Température de stockage	-30 to +65°C
Humidité relative	10 to 93% noncondensing
Environnement	Intérieur
Indice de protection	IP30

Régulateur

Conformité	CE, REACH, RoHS 3, WEEE
Certification	CPR
Normes	EN54-17, EN54-18

Output

Cable specification	0.13 to 3.31 mm² (12 to 26 AWG) shielded/unshielded twisted-pair

Produits compatibles

Catégorie	Référence	Description
Boîtiers	N-IO-MBX-1	
Boîtiers	N-IO-MBX-2	
Module d'interface	N-IO-SBX-1G	
Module d'interface	N-IO-SBX-2G	

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