KE-IO3144

Excellence series 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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Technical specifications

General

Status indication	Tri-coloured LEDs
Compatibility	Kidde Commercial Excellence Systems
Addressing method	DIP Switches
Address range	1 to 128

Electrical

Power supply type	Loop powered
Operating voltage	17 to 29 VDC
Current consumption	2.5 mA @ 24 VDC (active) 350 µA @ 24 VDC (standby)
Communication voltage	4 to 11 V (pulsed)

Input

Input quantity	4
Input type and rating	Bi-level, Supervised
Input states	Active, Fault, Normal, Open, Short
Pre-alarm resistor	3 kΩ to 7 kΩ
Alarm resistor	0.3 kΩ to 3 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	4
Output type and rating	Relay, 2A @ 30 VDC (resistive load)
Cable specification	0.13 to 3.31 mm² (12 to 26 AWG) shielded/unshielded twisted-pair

Isolation

Type	Negative line break
Loop current	2.5 mA (active)
Series resistance	<0.08 Ω
Switch current	1.05 A (continuous) / 1.4 A (short)
Leakage current	<1 mA
Isolation voltage	14 to 15.5 VDC
Reconnect voltage	14 to 15.5 VDC
Impedance requirements	≤32 devices between isolators
Quantity per loop	128

Physical

Physical dimensions	148 x 102 x 27 mm (W x H x D)
Net weight	145 g
Colour	Signal white (RAL 9003)
Mounting type	DIN-rail, Surface mount, Wall mount
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 to +55°C
Storage temperature	-30 to +65°C
Relative humidity	10 to 93% noncondensing
Environment	Indoor
IP rating	IP30

Regulatory

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

Compatible products

Category	Reference	Description
Enclosures	N-IO-MBX-1	
Enclosures	N-IO-MBX-2	
Interface unit	N-IO-SBX-2G	

KIDDE COMMERCIAL

As a company of innovation, Kidde Global Solutions reserves the right to change product specifications without notice. For the latest product specifications, visit firesecurityproducts.com online or contact your sales representative.

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