

## KE-IO3122

## Excellence series intelligent addressable 2 input / 2 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-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.



#### Details

- · Loop powered, saving external supply and installation cost
- Provides 2 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

# KE-IO3122

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## **Technical specifications**

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)	
	300 μA @ 24 VDC (standby)	
Communication voltage	4 to 11 V (pulsed)	
Input		
Input quantity	2	
Input type and rating	Bi-level, Supervised	
Input states	Active, Fault, Normal, Open, Short	
Pre-alarm resistor	3 k $\Omega$ to 7 k $\Omega$	
Alarm resistor	7 kΩ to 27 kΩ	
Termination resistor	15 kΩ, ¼ W, 1%	
Cable specification	0.5 to 4.9 mm <sup>2</sup> (10 to 20 AWG)	
	shielded/unshielded twisted-pair	
Output		
Output quantity	2	
Output type and rating	Relay, 2 A @ 30 VDC (resistive load)	
Cable specification	0.13 to 3.31 mm <sup>2</sup> (12 to 26 AWG)	
	shielded/unshielded twisted-pair	
Isolation		
Туре	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	
<u> </u>	s≤32 devices between isolators	
Quantity per loop	128	
Physical		
Physical Physical dimensions	148 x 102 x 27 mm (W x H x D)	
Physical dimensions	148 x 102 x 27 mm (W x H x D) 135 g	
Physical dimensions		
Net weight	135 g	
Physical dimensions Net weight Colour	135 g Signal white (RAL 9003)	

### **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	DIN Rail Module Box
Enclosures	N-IO-MBX-2	DIN Rail Module Box



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