KE-IU3110

Excellence series intelligent addressable 1 input 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-IU3110 is a Kidde Excellence series addressable single input unit with integrated short circuit loop isolation. Powered directly from the Excellence loop, it offers an input with selectable line supervision.



Applications

The KE-IU3110 is designed to monitor any potential free contacts. 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.

The KE-IU3110 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.

Installation & Maintenance Features

The KE-IU3110 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 input for 3rd party equipment supervision
- Fully supervised, bi-level input for pre-alarm and alarm supervision using a single input
- 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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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	250 µA @ 24 VDC (quiescent) 2.5 mA @ 24 VDC (active)
Communication voltage	4 to 11 V (pulsed)

Input

Input quantity	1
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)
Cable length	< 10 m

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	87 x 80 x 26 mm (W x H x D)
Net weight	60 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	DIN Rail Module Box
Enclosures	N-IO-MBX-2	DIN Rail Module Box
Interface unit	KE-IU3110-HS	Excellence series intelligent addressable priority input unit with isolator
Interface unit	N-IO-SBX-1G	Single module box with DIN rail (small)
Interface unit	N-IO-SBX-2G	Single module box with DIN rail (large)

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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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