

KE-IU3110-HS

Excellence series intelligent addressable priority 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-HS is a Kidde Excellence series addressable priority input unit with integrated short circuit loop isolation. It is designed to notify the CIE with minimum delay in case of alarm activation, allowing for an input alert with similar timing as a fire manual call point alarm. Powered directly from the Excellence loop, it offers an input with selectable line supervision.

Applications

The KE-IU3110-HS 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-HS 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-HS 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.



Dettagli

- Loop powered, saving external supply and installation cost
- Provides an addressable, fast acting input for emergency 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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Specifiche tecniche

Generale

Indicazione stato	Tri-coloured LEDs
Compatibilità	Kidde Commercial Excellence Systems
Metodo di indirizzamento	DIP Switches
Intervallo di indirizzi	1 to 128

Elettrico

Tipo di alimentatore	Alimentato ad anello
Tensione di esercizio	17 to 29 VDC
Consumo attuale	250 µA @ 24 VDC (quiescent) 2.5 mA @ 24 VDC (active)
Comunicazione voltaggio	4 to 11 V (pulsed)

Ingresso

Quantità in entrata	1
Tipo di input e intervallo	Bi-level, Supervised
Stati di ingresso	Attivo, Fault, Normale, Aperto, Corto
Resistenza di preallarme	3 kΩ to 7 kΩ
Resistenza di allarme	0.3 kΩ to 3 kΩ
Termine	15 kΩ, ¼ W, 1%

Isolamento

Tipo	Negative line break
Loop corrente	2.5 mA (active)
Resistenza serie	<0.08 Ω
Switch corrente	1.05 A (continuous) / 1.4 A (short)
Corrente di dispersione	<1 mA
Tensione di isolamento	14 to 15.5 VDC
Voltaggio di riconnessione	14 to 15.5 VDC

Fisico

Dimensioni fisiche	87 x 80 x 26 mm (W x H x D)
Peso netto	60 g
Colore	Segnale bianco (RAL 9003)
Tipo di montaggio	barra DIN, Montaggio a superficie, Montaggio a parete
Materiale	PC / ABS
Specifiche cavo	Loop: 0.13 to 3.31 mm² (12 to 26 AWG) shielded/unshielded twisted-pair < 52 Ω , < 500 nF

Ambientale

A prova di vandalo	No
Temperatura operativa	-22 to +55°C
Temperatura di immagazzinamento	-30 to +65°C
Umidità relativa	10 to 93% noncondensing
Ambiente	Interno
IP rating	IP30

Regolatorio

Conformità	CE, REACH, RoHS 3, WEEE
Certificazioni	CPR
Standards	EN54-17, EN54-18

Isolation

Impedance requirements	≤32 devices between isolators
Quantity per loop	128

Input

Cable specification	0.5 to 4.9 mm² (10 to 20 AWG)
Cable length	<10 m
Activation notice	< 3s

Prodotti compatibili

Categoria	Riferimento	Descrizione
Custodie	N-IO-MBX-1	Custodia di contenimento con barra DIN per moduli
Custodie	N-IO-MBX-2	Custodia di contenimento con barra DIN per moduli, grande
Modulo di interfaccia	N-IO-SBX-1G	Custodia di contenimento plastica singolo modulo I/O barra DIN (piccola)
Modulo di interfaccia	N-IO-SBX-2G	Custodia di contenimento plastica modulo I/O barra DIN (grande)