# 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.

## Details

- 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

# KE-IU3110-HS

## Excellence series intelligent addressable priority input unit with isolator

## Technical specifications

### General

| | |
|---|---|
| Status indication | Tri-coloured LEDs |
| Compatibility | Kidde Commercial Excellence Systems |
| Addressing method | Dip-Schalter |
| Address range | 1 to 128 |

### Electrical

| | |
|---|---|
| Power supply type | Loop-Stromversorgung |
| Operating voltage | 17 to 29 VDC |
| Current consumption | 250 µA @ 24 VDC (quiescent)<br>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 | Activ, Fault, Normal, Öffnen, Kurz |
| 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 |
| Activation notice | < 3s |

### Isolation

| | |
|---|---|
| Type | Negativer Zeilenumbruch |
| 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 | Signalweiß (RAL 9003) |
| Mounting type | DIN-Hutschiene, Oberflächenmontage, Wandmontage |
| 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 | Drinnen |
| 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 | 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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