# KE-DT3101W-HAB

**Excellence series intelligent addressable heat detector with isolator**

## General

The innovative Excellence range 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 DT3101W-HAB is a Kidde Excellence series, signal white addressable heat detector with integrated short circuit isolation. It supports EN54 Class A with static and rate-of-rise temperature response, as well as Class B with rate-of-rise response. It combines a low profile design with tri-colour status indication with 360° visibility. A remote indicator output is available as standard that supports a remote indicator up to 30 m away.

## User friendly

All detectors are individually identified by easily setting an address through 2, modern design rotary switches. The address is a directly identified number and does not require binary or hexadecimal conversions that significantly reduces the risk of incorrect addressing.

## Installation & maintenance friendly

Self-testing and drift compensation ensure safe operation with a contamination warnings provided when maintenance is needed.

All Excellence series detectors are compatible with a standard base which makes installation planning seamless and detectors easily interchangeable.

## Communication protocol

An enhanced protocol ensures the overall integrity and error-free operation of the system. The Excellence series protocol provides features like CRC error checking and multiple bus cycle codes to ensure reliability between panel and device communication. The Kidde Excellence protocol still support legacy 2000 series devices in combination with the Kidde Excellence series devices.

## Extended applications

A comprehensive range of additional devices and accessories complement every Excellence series device. Appart from a feature rich detector line, a comprehensive range of in- and outdoor manual call points as well as a variety of I/0 modules and accessories enrich the overall Excellence system capability.




## Details

- Integrated loop short circuit isolation ensures operation during a single short circuit on the loop
- Short circuit isolation on remote output for additional device protection
- Regular automatic self testing for operational piece of mind
- Static and rate-of-rise temperature support
- Tri-colour indicators for alarm, pre alarm, isolation, fault. ItsMe, and communications takes the guesswork out of operational status
- 360° indicator visibility means no device alignment to ensure visibility
- New mechanical rotary addressing for easy addressing
- Event logging in the device for diagnostics purposes when needed
- All alarm levels EN54 certified

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## Excellence series intelligent addressable heat detector with isolator

## Technical specifications

### General

| | |
|---|---|
| Status indication | Tri-colour LED |
| Compatibility | Kidde Commercial Excellence Systems |
| Alarm levels | 3 |
| Event log | Available |
| Connectivity | Excellence series, standard base |
| Addressing method | Rotary switch |

### Electrical

| | |
|---|---|
| Power supply type | Loop powered |
| Operating voltage | 17 to 29 VDC |
| Communication voltage | 4 to 11 V pulsed |
| Current consumption | 4.75 mA (alarm at 24 VDC)<br>180 µA (quiescent at 24 VDC) |
| Terminals | 6 |

### Detection

| | |
|---|---|
| Detection principle | Static & temperature change |
| Monitoring | Alarm threshold, Fault |
| Sensitivity | Selectable |
| Coverage area | < 57 m² |
| Alarm temperature (maximum) | +70°C |
| Alarm temperature (minimum) | +54°C |
| Rate-of-rise | Supported |
| Installation height | < 7.5 m (std) / < 9 m (reduced spacing & risk assessment) |

### Output

| | |
|---|---|
| Output quantity | 1 |
| Output type and rating | Remote indicator |
| Programmable | No |
| Remote alarm output | <8 mA |

### Isolation

| | |
|---|---|
| Type | Negative line break |
| Quantity per loop | ≤128 |
| Isolation voltage | 14 to 15.5 VDC |
| Reconnect voltage | 14 to 15.5 VDC |
| Loop current | 5 mA (isolated) |
| Switch current | 1.05 A (continuous) / 1.4 A (pulsed) |
| Leakage current | <1 mA |
| Series resistance | <0.08 Ω |
| Impedance requirements | ≤32 devices between isolators |

### Physical

| | |
|---|---|
| Physical dimensions | 100 x 54 mm (Ø x H) |
| Net weight | 110 g |
| Colour | Traffic white (RAL9016) |
| Mounting type | Base mount |
| Material (body) | PC / ABS |
| Material (contacts) | Brass |
| Functional marking | Device type, Isolation |

### Environmental

| | |
|---|---|
| Vandal proof | No |
| Operating temperature | -10 to +65°C |
| Storage temperature | -30 to +75°C |
| Application temperature (maximum) | +65°C |
| Application temperature (typical) | +25°C |
| Relative humidity | 10 to 93% noncondensing |
| Environment | Indoor |
| IP rating | IP20 |

### Regulatory

| | |
|---|---|
| Compliancy | CE, REACH, RoHS 3, WEEE |
| Certification | CPR |
| Standards | EN54-5, EN54-17 |

### Compatible products

| Category | Reference | Description |
|---|---|---|
| Detection device | KE-DB3010W | Excellence series intelligent device accessory - standard base |

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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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