# DCD-1E-IS(WHT)

## Conventional Intrinsically Safe Heat Detector, Grade A1R

### General

The DCD-1E-IS(WHT) is a WHITE intrinsically safe conventional rate of rise heat detector with a 60°C fixed temperature element designed for use in hazardous areas. The unit also features a remote indicator output.

Heat detectors are normally used in applications where smoke detectors are unsuitable or if there is a danger of nuisance alarms from smoke detectors.




### Heat Detector Classification

Heat detectors are classified according to the highest ambient temperature in which they can safely be used without risk of false alarm. The classes are identified by the letters A to G. In addition to the basic classification, detectors may be identified by a suffix to show that they are rate-of-rise (suffix R) or fixed temperature (suffix S) types.

A1R
A1 - Detector Class (Max. Application Temperature = 50°C, Static Response Temperature 54-65°C)
R - Temperature Response (with Rate of Rise)

### Hazardous Area Classification

ATEX II 1G
II - Equipment group (Non-Mining)
1 - Equipment category (for Zone 0 or 20)
G - Type of explosive atmosphere (Gas, Vapours and Mist)

Cenelec EEx ia IIC T5 Tamb = 55°C
E - Conformity with European standard
Ex - Explosion protection symbol
ia - Protection concept (Intrinsically Safe)
IIC - Apparatus Group (Gas)
T5 - Temperature classification (100°C)
Tamb - Maximum ambient temperature (55°C)

### BASEEFA Certificate number

ATEX - BAS01ATEX1021

### Details

- Twin fire LEDs allow 360° viewing
- Remote indicator output
- ATEX classification to II 1G EEx ia IIC T5 Tamb=55°C
- Suitable for installation in areas at Category 1 (including all lower categories)
- Approved by LPCB and GL

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## Technical specifications

### General

| | |
|---|---|
| Status indication | LED |
| User interface | LED |
| Compatibility | Aritech, Kilsen & Ziton conventional zone interfaces |
| Connectivity | 2-wire zone |

### Electrical

| | |
|---|---|
| Power supply type | Zon driven |
| Operating voltage | 15 to 30 VDC |
| Current consumption | 50 µA (quiescent)<br><50 mA (alarm) |

### Detection

| | |
|---|---|
| Detection principle | Termistor |
| Monitoring | Open circuit, Short circuit |
| Zone length | Zone configuration dependent |
| Rate-of-rise | Yes |

### Physical

| | |
|---|---|
| Physical dimensions | 100 x 40 mm (Ø x H) |
| Net weight | 97 g |
| Colour | Hvid |
| Mounting type | Montering på bas, Loftmontering |
| Material (body) | ABS |
| Functional marking | BASEEFA Rating |

### Environmental

| | |
|---|---|
| Vandal proof | No |
| Operating temperature | -10 to +55°C |
| Storage temperature | -30 to +70°C |
| Relative humidity | <95% noncondensing @ 40°C |
| Environment | Indendør, IS |
| Hazardous environment rating | II 1G EEx ia IIC T5 Tamb=55°C |
| IP rating | IP63 |

### Regulatory

| | |
|---|---|
| Compliancy | CE, REACH, RoHS 2 |
| Certification | CENELEC/ATEX, EN54-5 |

### Compatible products

| Category | Reference | Description |
|---|---|---|
| Detection device | YBN-R/4IS(WHT) | Conventional intrinsically safe detector mounting base |

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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