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	Zone powered
Operating voltage	15 to 30 VDC
Current consumption	50 µA (quiescent) <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	White
Mounting type	Base mount, Ceiling mount
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	Indoor, 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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