



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



Standard Features

- 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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Specifications

Electrical

Supply voltage	15-30 VDC
Quiescent current (typical)	50 μ A
Alarm current (max)	50 mA

Environmental

Operating temperature	-10 to +55°C
Storage temperature	-30 to +70°C
Relative humidity (max - no condensation)	95% @ 40°C
IP rating	IP63

Mechanical

Colour	White
Material	ABS
Weight	97 g
Dimensions (dia x h)	100 x 40 mm

Approvals	ATEX, LPCB, Germanischer Lloyd
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Ordering Information

Part No.	Description
DCD-1E-IS(WHT)	Conventional Intrinsically Safe Heat Detector, Grade A1R
YBN-R/4IS(WHT)	Conventional Intrinsically Safe Detector Mounting Base

