KE-DP3121B

Excellence series intelligent addressable dual optical/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 DP3121B is a Kidde Excellence series, graphite black addressable dual optical and heat detector with integrated short circuit isolation. 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.

Detection reliability is ensured by combining dual optical wavelengths with multiple detection angles. This allows for state-of-the-art particle size detection that differentiates between real sources of alarm, or nuisance sources such as dust and steam. As a temperature detector Class A static and rate-of-rise modes are supported to further widen the application footprint.

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.



Détails

- 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
- Nuisance alarm, steam & dust discrimination for superior false alarm immunity
- 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 levels sensitivity EN54 certified

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Spécifications techniques

Général

Indication d'état	Tri-colour LED
Compatibilité	Kidde Commercial Excellence Systems
Niveaux d’alarme	11
Journal des événements	Available
Connectivité	Excellence series, standard base
Méthode d'adressage	Rotary switch

Électrique

Type de bloc d’alimentation	Alimenté en boucle
Tension de fonctionnement	17 to 29 VDC
Tension de communication	4 to 11 V pulsed
Consommation de courant	200 µA (quiescent at 24 VDC) 4.75 mA (alarm at 24 VDC)
Bornes	6

Détection

Principe de détection	Optical light scatter, forward and backward / Heat
Contrôle	Alarm threshold, Contamination level, Fault
Sensibilité	Selectable
Zone de couverture	< 57 m²
Gamme de sensibilité aux particules	0.1 to 0.25 dB/m ±20%
Température d'alarme (minimum)	+54°C
Taux de croissance	Supported
Hauteur d’installation	< 7.5 m (std) / < 9 m (reduced spacing & risk assessment)

Sortie

Quantité des sorties	1
Type de sortie et classe	Remote indicator
Programmable	No
Sortie d'alarme à distance	< 8 mA

Isolation

Type	Negative line break
Quantité par boucle	≤ 128
Tension d’isolation	14 to 15.5 VDC
Reconnecter la tension	14 to 15.5 VDC
Isolement boucle de masse	5 mA (isolated)
Interrupteur de courant	1.05 A (continuous) / 1.4 A (pulsed)
Courant de fuite	< 1 mA
Types de résistance	< 0.08 Ω
Exigences d’impédance	≤ 32 devices between isolators

Caractéristiques physiques

Dimensions physiques	100 x 54 mm (Ø x H)
Poids net	124 g
Couleur	Graphite black (RAL 9011)
Type de montage	Assemblage sur socle
Matériel (boîte)	PC / ABS
Marquage fonctionnel	Device type, Isolation

Environnement

Protégé contre le vandalisme	Non
Température de fonctionnement	-10 to +55°C
Température de stockage	-30 to +75°C
Température d'application (maximale)	+50°C
Température ambiante	+25°C
Humidité relative	10 to 93% noncondensing
Environnement	Intérieur
Indice de protection	IP20

Régulateur

Conformité	CE, REACH, RoHS 3, WEEE
Certification	CPR
Normes	EN54-5, EN54-7, EN54-17, EN54-29

Detection

Alarm temperature (maximum)	70°C

Physical

Material (contacts)	Brass
Colour	Graphite black (RAL 9011)

Produits compatibles

Catégorie	Référence	Description
Module de détection	KE-DB3010B	

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