KE-DP3121B-SNV

Detetor inteligente endereçável dupla ótica/temperatura com isolador, sirene e DAV

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-SNV is a Kidde Excellence series, graphite black addressable dual optical and heat detector with integrated short circuit isolation, sounder and VAD (Visual Alarm Device). It combines a low profile design with dual tri-colour status indication with 360° visibility. A remote indicator output is available to support 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.

Integrated notification

Every detector supports a freely programmable, audible and visual alarm device that can be independently controlled from the CIE. The sounder supports 32 alarm tones, each configurable at 4 alarm levels that allows complete customisation for the application and the alarm situation. The EN54-23 certified VAD offers 3 power ratings adding to full flexibility for management of loop loading on a system level.

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

All Excellence series detectors are compatible with a standard base which makes installation planning seamless and detectors easily interchangeable. Self-testing and drift compensation ensure safe operation with contamination warnings provided when maintenance is needed.

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.



Detalhes

- O isolador integrado assegura o funcionamento durante um curto-circuito no loop
- Isolador integrado na saída para sinalizador para proteção adicional do dispositivo
- Discriminação de vapor e poeira para maior tranquilidade
- Funcionamento temperatura fixa ou termovelocimétrico
- Indicadores tricolores para alarme, pré-alarme, isolamento e falha. Estado de comunicações eliminam as dúvidas sobre o estado operacional
- A visibilidade de 360° do indicador significa que não é necessário alinhar o dispositivo para garantir a visibilidade
- Novo mecanismo de endereçamento rotativo para um endereçamento fácil
- Registo de eventos no dispositivo para fins de diagnóstico
- Todos os níveis de sensibilidade com certificação EN54
- Suporta 32 tons, para várias fases em 4 níveis de alarme até 86 dB(A)
- Suporta a ativação de alarme visual com 3 níveis até C-3-9

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Especificações técnicas

General

Status indication	LED tricolor
Compatibility	Sistemas Kidde Commercial Excellence
Alarm levels	5
Event log	Disponível
Connectivity	Série Excellence, base standard
Addressing method	Rotary switch

Electrical

Power supply type	Loop powered
Operating voltage	17 a 29 VDC
Communication voltage	4 a 11 V impulso
Current consumption	40 mA (alarme a 24 VDC - depende do nível de notificação) 500 µA (quiescent a 24 VDC)
Terminals	6

Detection

Detection principle	Dispersão ótica da luz, para a frente e para trás / Calor
Monitoring	Alarm threshold, Contamination level, Fault
Sensitivity	Selecionável
Coverage area	< 112 m² (ótico) / < 56.3 m² (calor)
Particle sensitivity range	0.1 a 0.25 dB/m ±20%
Alarm temperature (maximum)	+70°C
Alarm temperature (minimum)	+54°C
Rate-of-rise	Suportado
Installation height	< 10.5 m (ótico) / < 7.5 m (calor)
Heat class (per EN54)	A2S / A2R
Test fires (to ISO 7240)	TF1, TF2, TF3, TF4, TF5, TF8, TF9

Output

Output quantity	1
Output type and rating	Sinalizador
Programmable	Não
Remote alarm output	<8 mA @ 12 VDC (±10%)

Isolation

Type	Negative line break
Quantity per loop	≤128
Isolation voltage	14 a 15.5 VDC
Reconnect voltage	14 a 15.5 VDC
Loop current	5 mA (isolado)
Switch current	1.05 A (continuo) / 1.4 A (impulso)
Leakage current	<1 mA
Series resistance	<0.08 Ω
Impedance requirements	≤32 dispositivos entre isoladores

Physical

Physical dimensions	101 x 54 mm (Ø x H)
Net weight	205 g
Colour	Graphite black (RAL 9011)
Mounting type	Base mount
Material (body)	PC / ABS
Material (contacts)	Brass
Functional marking	Tipo dispositivo, Isolado

Environmental

Vandal proof	No
Operating temperature	-10 a +55°C
Storage temperature	-30 a +75°C
Application temperature (maximum)	+50°C
Application temperature (typical)	+25°C
Relative humidity	10 a 93% sem condensação
Environment	Indoor
IP rating	IP20

Regulatory

Compliancy	CE, REACH, RoHS 3, WEEE
Certification	CPR
Voluntary marks	BOSEC
Standards	EN54-3, EN54-5, EN54-7, EN54-17, EN54-23

Sounder

Output level	51 to 86 dB(A) - Tone dependent
Output level adjustment	4 levels
Frequency	User selectable
Selectable tones	32
Synchronization	Supported
No. of stages	3

VAD

Colour	Red
Rating	User selectable up to C-3-9
Floor coverage	< 63 m²
Flash frequency	0.2 Hz (1 flash every 2 s)
Synchronization	Supported

Produtos compatíveis

Categoria	Referência	Descrição
Detection device	KE-DB3010B	Acessório para detetor endereçável inteligente Excellence - base standard preta
Detection device	KE-DB3010W	Acessórios para detetores inteligentes da série Excellence - base standard
Notification device	PA25/3L	Sinalizador Remoto - Convencional

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