KE-DP3120W-SNV

Detector óptico dual direccionable inteligente serie Excellence con aislador, sirena y VAD

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 DP3120W-SNV is a Kidde Excellence series, traffic white addressable dual optical 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.

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 a 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.

Detalles

- 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 peace 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
- Supports 32 multi-stage tones at 4 alarm levels up to 86 dB(A)
- Supports visual alarm notification at 3 levels up to C-3-9

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Especificaciones técnicas

General

Indicación de estado	LED tri-color
Compatibilidad	Sistemas Excellence Kidde Commercial
Niveles de alarma	3
Registro de eventos	Disponible
Connectivity	Serie Excellence, base estándar
Método de direccionamiento	Rotary switch

Eléctrico

Tipo de fuente de alimentación	Alimentado por bucle
Voltaje de funcionamiento	17 to 29 VDC
Voltaje de comunicación	17 a 29 VDC
Consumo de corriente	< 40 mA (alarma a 24 VDC - depende del nivel de notificación) 500 µA (reposo a 24 VDC)
Terminales	6

Detección

Principio de detección	Dispersión de luz óptica, hacia adelante y hacia atrás
Supervisión	Alarm threshold, Contamination level, Fault
Sensibilidad	Seleccionable
Área de cobertura	< 112 m²
Rango de sensibilidad de particulas	Soportado
Temperatura de alarma (máxima)	+70°C
Temperatura de alarma (mínima)	+54°C
Tasa de aumento	Supported
Altura de instalación	< 10.5 m (óptico)

Salida

Cantidad de salidas	1
Ratio y tipo de salida	Indicador remoto
Programable	No
Salida de alarma remota	<8 mA @ 12 VDC (±10%)

Aislamiento

Tipo	Salto de línea negativo
Cantidad por bucle	≤128
Voltaje de aislamiento	14 a 15.5 VDC
Voltaje de reconexión	14 a 15.5 VDC
Corriente de lazo	5 mA (aislado)
Corriente de conmutación	1.05 A (continuo) / 1.4 A (pulsado)
Corriente de Fuga	<1 mA
Resistencia en serie	<0.08 Ω
Requisitos de impedância	≤ 32 dispositivos entre aisladores

Físico

Physical dimensions	101 x 54 mm (Ø x H)
Net weight	205 g
Color	Blanco (RAL 9016)
Tipo de Montaje	Montaje sobre base
Material (caja)	PC / ABS
Material (contactos)	Brass
Marcado funcional	Tipo de dispositivo, Aislador

Medioambiental

Vandal proof	No
Temperatura de funcionamiento	-10 a +55°C
Temperatura de almacenamiento	-30 a +75°C
Temperatura de aplicación (máxima)	+50°C
Temperatura ambiente	+25°C
Humedad relativa	10 a 93% sin condensación
Entorno	Interior
Clasificación IP	IP20

Regulador

Compliancy	CE, REACH, RoHS 3, WEEE
Certificación	CPR
Normativas	EN54-3, EN54-7, EN54-17, EN54-23

Sirena

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

Detection

Test fires (to ISO 7240)	TF1, TF2, TF3, TF4, TF5, TF8, TF9

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Productos compatibles

Categoría	Referencia	Descripción
Dispositivo de detección	KE-DB3010W	Accesorio detector inteligente serie Excellence - base estándar
Dispositivo de notificación	PA25/3L	Piloto convencional indicador de acción para detectores de incendio.

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