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

- El aislador de cortocircuito de lazo integrado garantiza el funcionamiento durante un único cortocircuito en el lazo
- Aislamiento de cortocircuito en salida remota para protección adicional del dispositivo
- Discriminación de ruido, vapor y polvo para su tranquilidad
- Soporte de temperatura estática y de tasa de aumento
- Indicador tricolor de "SoyYo", comunicaciones, alarma, prealarma, aislamiento y avería que eliminan las conjeturas sobre el estado operativo
- La visibilidad del indicador de 360° significa que no hay alineación del dispositivo para garantizar la visibilidad
- Nuevo direccionamiento giratorio mecánico para un direccionamiento sencillo
- Registro de eventos en el dispositivo para fines de diagnóstico cuando sea necesario
- Todos los niveles de alarma certificados EN54
- Admite 32 tonos multietapa en 4 niveles de alarma de hasta 86 dB(A)
- Admite notificación de alarma visual en 3 niveles hasta C-3-9

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Especificaciones técnicas

General

Status indication	LED tri-color
Compatibility	Sistemas Excellence Kidde Commercial
Alarm levels	3
Event log	Disponible
Connectivity	Serie Excellence, base estándar
Addressing method	Rotary switch

Electrical

Power supply type	Loop powered
Operating voltage	17 a 29 VDC
Communication voltage	17 a 29 VDC
Current consumption	< 40 mA (alarma a 24 VDC - depende del nivel de notificación) 500 µA (reposo a 24 VDC)
Terminals	6

Detection

Detection principle	Dispersión de luz óptica, hacia adelante y hacia atrás
Monitoring	Alarm threshold, Contamination level, Fault
Sensitivity	Seleccionable
Coverage area	< 112 m²
Particle sensitivity range	Soportado
Rate-of-rise	Soportado
Installation height	< 10.5 m (óptico)
Test fires (to ISO 7240)	TF1, TF2, TF3, TF4, TF5, TF8, TF9

Output

Output quantity	1
Output type and rating	Indicador remoto
Programmable	No
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 (aislado)
Switch current	1.05 A (continuo) / 1.4 A (pulsado)
Leakage current	<1 mA
Series resistance	<0.08 Ω
Impedance requirements	≤ 32 dispositivos entre aisladores

Physical

Physical dimensions	101 x 54 mm (Ø x H)
Net weight	205 g
Colour	Traffic white (RAL9016)
Mounting type	Base mount
Material (body)	PC / ABS
Material (contacts)	Brass
Functional marking	Tipo de dispositivo, Aislador

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% sin condensación
Environment	Indoor
IP rating	IP20

Regulatory

Compliancy	CE, REACH, RoHS 3, WEEE
Certification	CPR
Voluntary marks	BOSEC
Standards	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

Productos compatibles

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

KIDDE COMMERCIAL

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