

KE-DP3120W-SNV

Excellence series intelligent addressable isolated dual optical smoke detector w/ sounder & 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.



Dettagli

- Integrated loop short circuit isolation ensures operation during a loop overload
- Short circuit isolation on remote indicator 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
- Easy mechanical rotary addressing
- Event logging in the device for advanced diagnostics purposes
- All alarm levels 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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Specifiche tecniche

Generale

Indicazione stato	Tri-colour LED
Compatibilità	Kidde Commercial Excellence Systems
Livelli di allarme	3
Registro eventi	Available
Connectivity	Excellence series, standard base
Metodo di indirizzamento	Rotary switch

Elettrico

Tipo di alimentatore	Alimentato ad anello
Operating voltage	17 to 29 VDC
Comunicazione	voltaggio4 to 11 V pulsed
Consumo attuale	< 40 mA (alarm at 24 VDC - notification level dependant) 500 µA (quiescent at 24 VDC)
Terminali	6

Rivelazione

Principio di rilevamento	Optical light scatter, forward and backward / Heat
Monitoraggio	Alarm threshold, Contamination level, Fault
Sensibilità	Selectable
Area di copertura	< 112 m²
Intervallo di sensibilità delle particelle	0.1 to 0.25 dB/m ±20%
Temperatura di allarme (massima)	+70°C
Temperatura di allarme (minima)	+54°C
Tasso di incremento	Supported
Altezza di installazione	< 10.5 m (optical) / < 7.5 m (heat)

Uscita

Quantità in uscita	1
Tipo di uscita e intervallo	Remote indicator
Programmabile	No
Allarme di uscita remoto	<8 mA

Isolamento

Tipo	Negative line break
Quantità per ciclo	≤128
Tensione di isolamento	14 to 15.5 VDC
Voltaggio di riconnessione	14 to 15.5 VDC
Loop corrente	5 mA (isolated)
Switch corrente	1.05 A (continuous) / 1.4 A (pulsed)
Corrente di dispersione	<1 mA
Resistenza serie	<0.08 Ω
Requisiti di impedenza	≤32 devices between isolators

Fisico

Dimensioni fisiche	101 x 54 mm (Ø x H)
Peso netto	205 g
Colore	Bianco (RAL 9016)
Tipo di montaggio	Montaggio su base
Materiale (scatola)	PC / ABS
Materiale (contatti)	Brass
Marcatura funzionale	Device type, Isolation

Ambientale

A prova di vandalo	No
Temperatura operativa	-10 to +55°C
Temperatura di immagazzinamento	-30 to +75°C
Temperatura di applicazione (massima)	+50°C
Temperatura ambiente	+25°C
Relative humidity	10 to 93% noncondensing
Ambiente	Interno
IP rating	IP21C

Regolatorio

Compliance	CE, REACH, RoHS 3, WEEE
Certificazioni	CPR
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

Detection

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

Categoria	Riferimento	Descrizione
Dispositivo di rivelazione	KE-DB3010W	Base standard per rivelatori serie Excellence
Dispositivo di segnalazione	PA25/3L	Ripetitore luminoso di allarme a led.