

KE-DP3120W-SNV

Excellence 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.



Details

- 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 operational 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
- 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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Technical specifications

Status indication Tri-colour LED Compatibility Kidde Commercial Excellence Systems Alarm levels 3 Event log Available Connectivity Excellence series, standard base Addressing method Rotary switch Electrical Power supply type Loop powered Operating voltage 17 to 29 VDC Communication voltage 4 to 11 V pulsed Current consumption < 40 mA (alarm at 24 VDC) - notification level dependant) 500 μA (quiescent at 24 VDC) Terminals 6 Detection Detection principle Optical light scatter, forward and backward / Heat Monitoring Alarm threshold, Contamination level, Fault Sensitivity Selectable Coverage area < 112 m² Particle sensitivity range 0.1 to 0.25 dB/m ±20% Alarm temperature (maximum) +70°C Alarm temperature +54°C (minimum) Rate-of-rise Supported Installation height < 10.5 m (optical) / < 7.5 m (heat) Test fires (to IsO 7240) TF1, TF2, TF3, TF4, TF5, TF8, TF9 </th <th>General</th> <th></th>	General			
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Sensitivity Selectable Coverage area < 112 m² Particle sensitivity range 0.1 to 0.25 dB/m ±20% Alarm temperature +70°C (maximum) Alarm temperature +54°C (minimum) Rate-of-rise Supported Installation height < 10.5 m (optical) / < 7.5 m (heat) Test fires (to ISO 7240) TF1, TF2, TF3, TF4, TF5, TF8, TF9 Output Output quantity 1 Output quantity 1 Output type and rating Remote indicator Programmable No Remote alarm output <8 mA Isolation Type Negative line break Quantity per loop ≤128 Isolation voltage 14 to 15.5 VDC Reconnect voltage 14 to 15.5 VDC Loop current 5 mA (isolated) Switch current 1.05 A (continuous) / 1.4 A (pulsed) Leakage current <1 mA Series resistance <0.08 Ω	Detection principle			
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$\begin{array}{lll} \text{Quantity per loop} & \leq 128 \\ \text{Isolation voltage} & 14 \text{ to } 15.5 \text{ VDC} \\ \text{Reconnect voltage} & 14 \text{ to } 15.5 \text{ VDC} \\ \text{Loop current} & 5 \text{ mA (isolated)} \\ \text{Switch current} & 1.05 \text{ A (continuous)} / 1.4 \text{ A (pulsed)} \\ \text{Leakage current} & < 1 \text{ mA} \\ \text{Series resistance} & < 0.08 \Omega \\ \end{array}$	Isolation			
Isolation voltage 14 to 15.5 VDC Reconnect voltage 14 to 15.5 VDC Loop current 5 mA (isolated) Switch current 1.05 A (continuous) / 1.4 A (pulsed) Leakage current <1 mA Series resistance <0.08 Ω	Туре	Negative line break		
Reconnect voltage 14 to 15.5 VDC Loop current 5 mA (isolated) Switch current 1.05 A (continuous) / 1.4 A (pulsed) Leakage current <1 mA Series resistance $<0.08 \ \Omega$	Quantity per loop	≤128		
Loop current 5 mA (isolated) Switch current 1.05 A (continuous) / 1.4 A (pulsed) Leakage current <1 mA Series resistance $<0.08 \Omega$	Isolation voltage	14 to 15.5 VDC		
Switch current 1.05 A (continuous) / 1.4 A (pulsed) Leakage current <1 mA Series resistance <0.08 Ω	Reconnect voltage	14 to 15.5 VDC		
Leakage current $<1 \text{ mA}$ Series resistance $<0.08 \ \Omega$	Loop current	5 mA (isolated)		
Series resistance $< 0.08 \Omega$	Switch current	1.05 A (continuous) / 1.4 A (pulsed)		
	Leakage current	<1 mA		
	Series resistance	<0.08 Ω		
Impedance requirements≤32 devices between isolators	Impedance requirements	s≤32 devices between isolators		

Physical	
Physical dimensions	101 x 54 mm (Ø x H)
Net weight	205 g
Colour	White (RAL 9016)
Mounting type	Base mount
Material (body)	PC / ABS
Material (contacts)	Brass
Functional marking	Device type, Isolation
Environmental	
Vandal proof	No
Operating temperature	-10 to +55°C
Storage temperature	-30 to +75°C
Application temperature (maximum)	+50°C
Application temperature (typical)	+25°C
Relative humidity	10 to 93% noncondensing
Environment	Indoor
IP rating	IP21C
Regulatory	
Compliancy	CE, REACH, RoHS 3, WEEE
Certification	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 m ²
Flash frequency	0.2 Hz (1 flash every 2 s)
Synchronization	Supported

Compatible products

Category	Reference	Description	
Detection device	KE-DB3010W		
Notification device	PA25/3L		



As a company of innovation, Kidde Global Solutions reserves the right to change product specifications without notice. For the latest product specifications, visit ie.firesecurityproducts.com online or contact your sales representative.