

KE-DP3120W-SN

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

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-SN is a Kidde Excellence series, traffic white addressable dual optical detector with integrated short circuit isolation and sounder. 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 alarm device that can be fully 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.

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.

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 superior false alarm immunity
- Regular automatic self testing for operational piece of mind
- 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

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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	< 10.5 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		
Monitoring	Alarm threshold, Contamination level, Fault		
Sensitivity	Selectable		
Coverage area	< 112 m ²		
Particle sensitivity range	e 0.1 to 0.25 dB/m ±20%		
Installation height	< 10.5 m		
Test fires (to ISO 7240)	TF1, TF2, TF3, TF4, TF5, TF8, TF9		
Output			
Output quantity	1		
Output type and rating	Remote indicator		
Programmable	No		
Remote alarm output	<8 mA		
Isolation			
Туре	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		
Impedance requirement	s≤32 devices between isolators		
Physical			
Physical dimensions	101 x 51 mm (Ø x H)		
Net weight	150 g		
Colour	White (RAL 9016)		
	Base mount		
Mounting type	Base mount		
Mounting type Material (body)	PC / ABS		

Vandal proof		No		
Operating temperature		-10 to +55°C		
Storage temperature		-30 to +75°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; EN54-7, EN54-17		
Sounder				
Output level		51 to 86 dB(A) - Tone dependent		
Output level adjus	stment	4 level	S	
Frequency		User selectable		
Selectable tones		32		
Synchronization		Supported		
No. of stages		3		
Compatible pr	oduc	ts		
Category F	Reference		Description	
Detection k device	KE-DB3010W		Excellence series intelligent detector accessory - standard base	
Notification F	PA25/3L		Conventional remote indicator	



Brass

Device type, Isolation

Material (contacts)

Functional marking

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.