KE-DP3120W

Excellence series intelligent addressable dual optical smoke detector with isolator

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 is a Kidde Excellence series, signal white addressable dual optical detector with integrated short circuit isolation. It combines a low profile design with tri-colour status indication with 360° visibility. A remote indicator output is available as standard that supports 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.

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

Self-testing and drift compensation ensure safe operation with a contamination warnings provided when maintenance is needed.

All Excellence series detectors are compatible with a standard base which makes installation planning seamless and detectors easily interchangeable.

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.

Extended applications

A comprehensive range of additional devices and accessories complement every Excellence series device. Appart from a feature rich detector line, a comprehensive range of in- and outdoor manual call points as well as a variety of I/0 modules and accessories enrich the overall Excellence system capability.



Details

- 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 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
- New mechanical rotary addressing for easy addressing
- Event logging in the device for diagnostics purposes when needed
- All alarm levels EN54 certified
- Can be used with Scorpion tester where detectors are difficult or impossible to access

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Technical specifications

General

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	Alimentado por bucle
Operating voltage	17 to 29 VDC
Communication voltage	4 to 11 V pulsed
Current consumption	4.75 mA (alarm at 24 VDC) 200 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 m²
Particle sensitivity range	0.1 to 0.25 dB/m ±20%
Installation height	< 10.5 m (std) / < 12 m (reduced spacing & risk assessment)

Output

Output quantity	1
Output type and rating	Remote indicator
Programmable	No
Remote alarm output	<8 mA

Isolation

Type	Salto de línea negativo
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 requirements	≤32 devices between isolators

Physical

Physical dimensions	100 x 47 mm (Ø x H)
Net weight	124 g
Colour	Blanco (RAL 9016)
Mounting type	Montaje sobre base
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 (typical)	+25°C
Relative humidity	10 to 93% noncondensing
Environment	Indendør
IP rating	IP20

Regulatory

Compliancy	CE, REACH, RoHS 3, WEEE
Certification	CPR
Standards	EN54-7, EN54-17

Compatible products

Category	Reference	Description
Detection device	KE-DB3010W	Excellence series intelligent device accessory - standard base

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

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