

# 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, traffic 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 peace 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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device

### **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	Loop powered
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 m <sup>2</sup>
Particle sensitivity range	e 0.1 to 0.25 dB/m ±20%
Installation height	< 10.5 m
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	100 x 47 mm (Ø x H)
Net weight	124 g
Colour	White (RAL 9016)
Mounting type	Base mount
Material (body)	PC / ABS
Material (contacts)	Brass
Functional marking	Device type, Isolation

Environmenta	I
Vandal proof	No
Operating temper	ature -10 to +55°C
Storage temperate	ure -30 to +75°C
Application tempe (typical)	erature +25°C
Relative humidity	10 to 93% noncondensing
Environment	Indoor
IP rating	IP20
Regulatory	
Compliancy	CE, REACH, RoHS 3, WEEE
Certification	CPR
Standards	EN54-7, EN54-17
Compatible pr	
Category R	Reference Description
Detection K	KE-DB3010W



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