

DATASHEET



KE-DP3120W

Excellence series intelligent addressable dual optical smoke detector with isolator

MAIN FEATURES

- Excellence series intelligent addressable dual optical smoke detector with isolator

TECHNICAL SPECIFICATIONS

Power supply

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)
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

Inputs / outputs

Output quantity	1
Output type and rating	Remote indicator
Remote alarm output	<8 mA
Quantity per loop	≤128
Material (contacts)	Brass

Physical characteristics

Physical dimensions	100 x 47 mm (Ø x H)
Net weight	124 g
Colour	Traffic white (RAL9016)
Mounting type	Base mount

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TECHNICAL SPECIFICATIONS

Material (body)	PC / ABS
Environmental characteristics	
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	IP20
Other characteristics	
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
Terminals	6
Detection principle	Optical light scatter, forward and backward
Monitoring	Alarm threshold, Contamination level, Fault
Sensitivity	Selectable
Coverage area	<112 m ²
Particle sensitivity range	0.1 to 0.25 dB/m ±20%
Installation height	< 10.5 m (std) / < 12 m (reduced spacing & risk assessment)
Programmable	No
Type	Negative line break
Series resistance	<0.08 Ω
Impedance requirements	≤32 devices between isolators
Functional marking	Device type, Isolation
Vandal proof	No
Compliance	CE, REACH, RoHS 3, WEEE
Certification	CPR
Standards	EN54-7, EN54-17
Category	Reference
Detection device	KE-DB3010W