

DATASHEET

KE-DP3121W-SN

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

MAIN FEATURES

- Excellence series intelligent addressable isolated dual optical/heat detector w/ sounder



TECHNICAL SPECIFICATIONS

Power supply

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)
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
Output level	51 to 99 dB(A) - Tone dependent
Output level adjustment	4 levels

Physical characteristics

Physical dimensions	100 x 51 mm (Ø x H)
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TECHNICAL SPECIFICATIONS

Net weight	205 g
Colour	Traffic white (RAL9016)
Mounting type	Base mount
Material (body)	PC / ABS
Environmental characteristics	
Alarm temperature (maximum)	+70°C
Alarm temperature (minimum)	+54°C
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
Other characteristics	
Status indication	Tri-colour LED
Compatibility	Kidde Commercial Excellence Systems
Alarm levels	5
Event log	Available
Connectivity	Excellence series, standard base
Addressing method	Rotary switch
Terminals	6
Detection principle	Optical light scatter, forward and backward / Heat
Monitoring	Alarm threshold, Contamination level, Fault
Sensitivity	Selectable
Coverage area	< 57 m ²
Particle sensitivity range	0.1 to 0.25 dB/m ±20%
Rate-of-rise	Supported
Installation height	< 7.5 m (std) / < 9 m (reduced spacing & risk assessment)
Heat class (per EN54)	A2S / A2R
Test fires (to ISO 7240)	TF1, TF2, TF3, TF4, TF5, TF8, TF9
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

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TECHNICAL SPECIFICATIONS

Compliance

Certification

Voluntary marks

Standards

Frequency

Selectable tones

Synchronization

No. of stages

Category

Detection device

Notification device

CE, REACH, RoHS 3, WEEE

CPR

BOSEC

EN54-3, EN54-5, EN54-7, EN54-17, EN54-23

User selectable

32

Supported

3

Reference

KE-DB3010W

PA25/3L