

DATASHEET

KE-DP3121B

Excellence series intelligent addressable dual optical/heat detector with isolator

MAIN FEATURES

- Excellence series intelligent addressable dual optical/heat 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	200 µA (quiescent at 24 VDC) 4.75 mA (alarm 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 54 mm (Ø x H)
Net weight	124 g
Colour	Graphite black (RAL 9011)
Mounting type	Base mount

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TECHNICAL SPECIFICATIONS

Material (body)	PC / ABS
Environmental characteristics	
Alarm temperature (minimum)	+54°C
Alarm temperature (maximum)	70°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	IP20
Other characteristics	
Status indication	Tri-colour LED
Compatibility	Kidde Commercial Excellence Systems
Alarm levels	11
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)
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	EN54-5, EN54-7, EN54-17, EN54-29
Category	Reference
Detection device	KE-DB3010B