

Reflective Optical Beam Smoke Detection (G8NB-50M)



Description

The G8NB Smoke Beam is designed to rapidly detect smoke, providing an early warning of a potential fire.

The Smoke Beam is suitable for spaces with high ceilings or expansive open areas where traditional point detectors may not be as effective. It has a high level of reliability when installed, reducing the false fire alarms and is an effective fire detection solution.

The installation is simple and more cost effective than deploying a large number of point detectors to cover the same area with configurable threshold levels making it adaptable to its installation environment.

The G8NB reduces maintenance cost and creating less disruption to building operations.



G8NB Parameters	Minimum	Typical	Maximum	Unit
Operating Voltage	15	24	32	VDC
Operating Current	15	20	42	mA
Operating Current - Alignment Modes	-	-	55	mA
Alarm Current	25	33	55	mA
Fault Current	3	10	30	mA
Response Thresholds (25%, 35%, 50%, 75%)	25	35	75	%
Delay to Alarm	-	10	-	s
Delay to Fault	-	10	-	s
Operating Distance (Separation between Detector & Reflector) NOTE: 4 reflectors required for >50m	10	-	100	m
Rapid Obscuration Fault Threshold	-	85	-	%
Maximum angular alignment range of detector	-	-	+/- 4.5	Deg
Optical Wavelength	-	850	-	nm
Operating Temperature	-	-20	+55	°C
Storage Temperature	-40	-	+55	°C
Relative Humidity (non-condensing)	-	-	93	%RH
IP Rating	-	IP40	-	IP
Fire & Fault Relays (VFCO) - Contact Voltage	-	-	30	VDC
Fire & Fault Relays (VFCO) - Contact current	-	-	1	A
Cable Gauge	22	-	16	AWG
Housing Flammability Rating	-	UL94 V0	-	-
Approvals	UL268 7th Edition			

G8NB Dimensions and Weights	Width (mm)	Height (mm)	Depth (mm)	Weight (kg)
G8NB Reflective Detector	115	190	130	0.7
Reflector	100	100	10	0.1

Part Numbers: G8NB-50M 50m Reflective Optical Beam Smoke Detector
 G8NB-LRK Long Range Kit - increases the G8NB-50M range to 100M. (3 additional Reflectors)