



G8NB Reflective Optical Beam Smoke Detection

G8NB-50m

G8NB-100m



G8NB Benefits

- **Early Detection** - designed to rapidly detect smoke, providing an early warning of a potential fire
- **Wide Coverage** - suitable for spaces with high ceilings or expansive open areas where traditional point detectors may not be as effective
- **Reduced False Alarms** - reliable and effective fire detection solution
- **Ease of Installation** - simpler and more cost effective than deploying a large number of point detectors to cover the same area
- **Adaptable** - configurable threshold levels to the installation environment
- **Reduced Maintenance** - lower overall costs and less disruption to building operations

| G8NB Parameters | Minimum | Typical | Maximum | Unit |
|--|-------------------|---------|---------|------|
| Operating Voltage | 15 | 24 | 32 | V DC |
| 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 and 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 | V DC |
| 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-100m | 100m Reflective Optical Beam Smoke Detector |
| G8NB-LRK | Long Range Kit. (3 Reflectors) |
| G8NB-TF | Test Filter |



www.spectiv.co.uk

Spectiv Limited, 1 High Street, Devizes, Wiltshire, SN10 4AF, United Kingdom. Registered in England No. 12984907 VAT No GB 383319680 sales@spectiv.co.uk

Data and design are subject to change without notice. The products are shipped with installation and wiring instructions, which should be followed for actual installation. For additional information, please contact your sales representative.