

Aurora

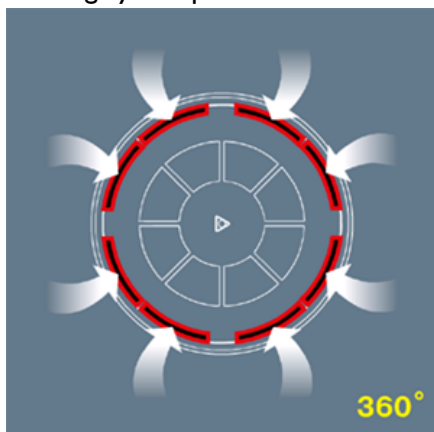
Conventional Fire Detector Range

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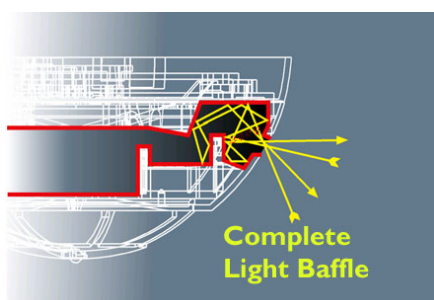
The **Aurora** range of conventional fire detectors has been developed to satisfy the demands of installers, specifiers and owners.

Aurora detectors are:

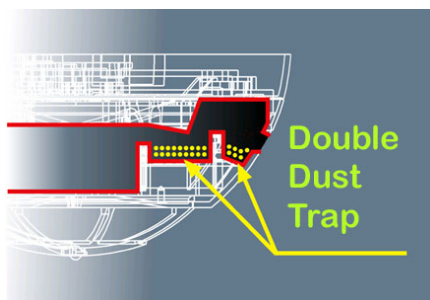
- * Robust and reliable
- * Certified to latest standards
- * Suitable for the majority of application conditions
- * Fitted with user friendly features for installation, test and maintenance purposes
- * Capable of working with the majority of panels
- * Highly competitive



A **symmetrical** housing and chamber design means that the detector has excellent entry characteristics from all directions. Some detectors suffer from poor directionality performance which can result in failure during approval testing. The **Aurora** maintains optimum sensing capability from all directions whilst resisting any negative performance effects from strong air movement.



Reliability is enhanced by the smoke detector's patented entry design. Optical smoke detectors in the past have frequently suffered from false alarms caused by airborne dust. The double S baffle design of the **Aurora**



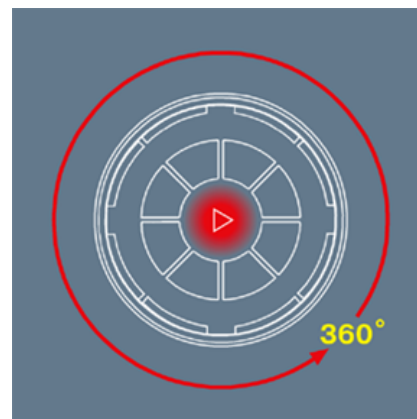
significantly reduces this risk by creating a double dust trap to remove airborne contaminants before they can reach the detection chamber. The result is a detector that will tolerate such contamination more effectively than many competitive products.

Unwanted alarms from smoke detectors can also be generated by a number of other environmental conditions, one of which is small insects. Once again **Aurora** is provided with superior protection, this time by a continuous screen with precisely calculated apertures, large enough to let smoke aerosols through but small enough to block most insects.



Additional security is provided for the detectors by activating the anti-tamper locking feature fitted as standard on all mounting bases.

Alarm indicator visibility can



often be a concern for installers since such indicators on detectors should be oriented towards the entry door to limit search time and distance. The central position of the indicator on **Aurora** detectors means that this is no longer an issue as it offers a cone of vision, viewable from all sides.

Simple, positive testing can be undertaken on all **Aurora** detectors using a magnet to activate a full internal check of the circuit. This cannot replace the need for regular maintenance testing with an approved aerosol dispenser, but offers a confirmed response quickly during commissioning and general service activities.



Aurora Universal Diode Base includes a **Schottky Diode** ☐



Aurora Optical Smoke Detector

An optimised chamber and sensing circuit provide superior wide-spectrum detection of smoke aerosols generated by the majority of fires allowing this detector to provide reliable early warning for most applications. It should be specified for all life safety risks unless environmental conditions restrict correct operation.



Aurora Rate of Rise Temperature Detector

The Rate of Rise detector is certified Class AIR as defined by EN54-5 and therefore offers the highest level of protection when smoke detection is unsuitable. This classification also allows for maximum coverage and mounting height under BS5839-1:2002 recommendations.



Aurora Static High Temperature Detector

A High Fixed Temperature detector certified as a Class BS performance device. This detector is particularly suited for difficult environments where there are higher than normal ambient temperatures or where rapid temperature variations are expected.

All these detectors employ the very latest “circuit-on-board” processing technology designs to deliver ultra stable performance under all conditions. This approach delivers the combined benefits of increased reliability and improved manufacturing efficiency - resulting in better and more competitive products.

Specifications	Optical Smoke Detector	Rate of Rise Detector	High Fixed Temperature Detector
Ordering Code	DT-01-100	DT-01-102	DT-01-101
Standby Current (Nominal)	70µA	60µA	60µA
Alarm Current (typical)	20-30mA (must be limited to 50mA maximum)		
Operating Voltage Range	10-30Vdc		
Operating Temperature Range (no icing)	-30°C to +60°C	-30°C to +50°C	-30°C to +65°C
Compatible Mounting Bases	DT-02-100 Universal Aurora Diode Base		
Maximum Humidity (non-condensing)	95% RH		
Colour	White		
Applicable Standard	BS EN54-7:2001	BS EN54-5:2001	BS EN54-5:2001
Diameter (mm)	110		
Height with base (mm)	54		
Weight (inc. std base)	130		



EN54-7 603a/01
EN54-5 603b/01
EN54-5 603b/02