Product Data Sheet: FireRay 2000 Infrared Optical Beam Detectors

Description

The F2000 infrared optical beam detector is the ideal answer to large open plan spaces with high ceilings; for example factories, warehouses, churches, museums, hazardous areas, shopping and leisure centres.

The product features 3 selectable 'Alarm Threshold' settings of 1.25dB at 25%, 1.87dB at 35% (default) and 3dB at 50%, which is recommended for hostile and extreme environments. It also has a battery powered fall-back supply so if, for any reason, the power is cut in a building, the F2000 will still relay a break in the beam.

The F2000 is also benefited by the use of LED's. The red LED, located on the door, indicates a fire and the continuous yellow LED, located internally within the unit, indicates a fault.
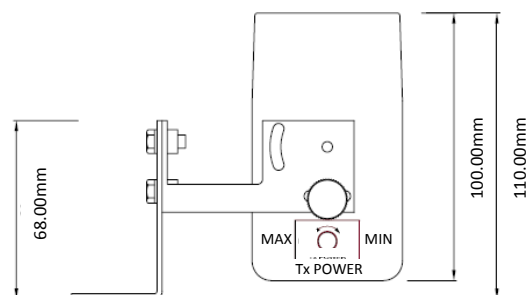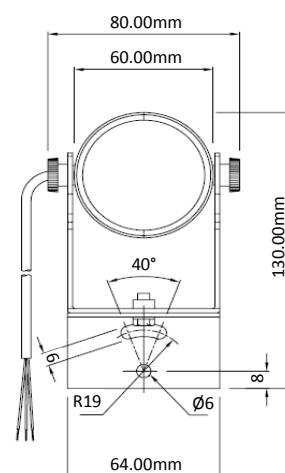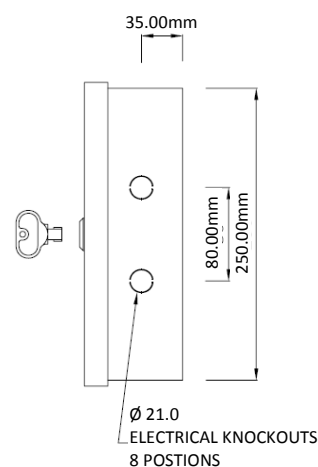
The response of the fire relay, used to trigger the alert, is dependent on your decision of chosen mode. "Auto Reset Mode" resets the fire relay approximately 5 seconds after its return to its usual threshold state, and "Latching Mode" causes an indefinite constant alarm once the fire relay has been activated.

FireRay 2000 also features a fault relay setting that is triggered when the infrared beam is suddenly obstructed to a level of 93% plus for approximately 10 seconds. After the condition has been rectified the fault relay will reset within 4 seconds.

The F2000 has been designed, manufactured and certified to BS5839 Part 5 and has also gained VdS, UL and CPD approvals.

Dimensions

Technical Information

Part Number:	FireRay 2000
Operating Range:	10 - 100 metres
Voltage Range:	11.5Vdc - 28Vdc
Current Consumption @ 24V:	<8mA (quiescent) and <16.5mA (alarm)
Operating Temperature Range:	-20ºC to 50ºC
Protection:	IP50
Finish:	White

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