

## INFRARED LIGHT BARRIER

### AE/BO3000

#### Description

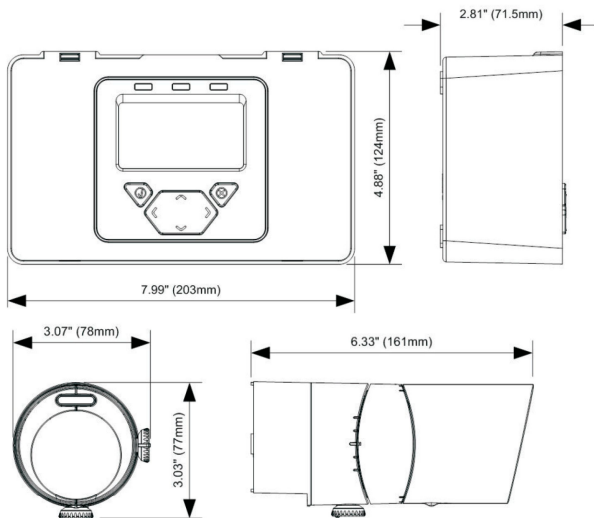
The AE / BO3000 linear infrared smoke detector has been designed using the latest optical fire detection technology. This detector offers effective protection for large open spaces with high ceilings. Very suitable also for applications where the installation of specific smoke detectors presents difficulties.

The AE / BO3000 linear infrared smoke detector is ideal for applications where the line of sight for IR (Infrared) is narrow and where the building structure uses reflective surfaces. It has also been designed to be aesthetically pleasing and, therefore, integrable in modern architectural buildings, as well as in heritage sites, and in particular where there are ornamental ceilings.

EN 54-12 and UL268 certificate.



#### Operation



The system consists of a modern transmitter that emits a narrow beam of infrared light to an associated receiver, and a compact low level controller. When the smoke crosses the path of the infrared beam, the signal strength in the receiver decreases. Below a preset level, the device goes into alarm condition.

Both the transmitter and the receiver have integrated rotating discs for easy alignment. Using these rotating discs the fine adjustment process is carried out in a smooth and reliable way. Each equipment allows a 10 degree adjustment in both planes. For a greater adjustment, additional supports are available that provide a maximum movement of 180 degrees in both planes, as well as a complete rotation of 360 degrees.

The AE / BO3000 linear infrared smoke detector has been designed so that it can be installed by a single operator, using the laser-assisted alignment incorporated in the receiver, and a set of light indicators that indicate the optimum alignment point.

The AE / BO3000 linear infrared smoke detector also has a feature that allows the transmitter to be powered from the controller directly, reducing the number of necessary power supplies.

The low level controller incorporates an LCD screen, which offers an icon-based and easy-to-use interface. This controller facilitates the commissioning, testing and maintenance of the detection system. During start-up, the fire sensitivity thresholds of the detector can be selected directly, as well as time to alarm and equipment failure.

The detector is fully compatible with the requirements of RoHS and WEEE.

#### TECHNICAL CHARACTERISTICS

Operating range:	5 to 120 meters	Components (Additional Detector):	1 transmitter (transparent lens)
Supply voltage:	12 to 36Vdc ± 10%		1 receiver (dark lens)
Current consumption controller (with 1 or 2 receivers):	14mA (constant)	Housing material (Transmitter / Receiver / Controller):	UL94 V2 PC
Operating current of the transmitter:	8mA (per transmitter)	Certificate:	CPD: 0786-CPD-21162
Reset time:	> 20 seconds		UL Listed UL: S3417
Fire and fault relay contacts:	2A @ 30 Vdc	Control unit:	Measures: 203 x 124 x 71.5 mm (height x width x depth)
Operating temperature. (No condensation):	-10 ° C to + 55 ° C		Weight: 606 g
Optical wavelength:	850nm	Transmitter and receiver:	Measures: 78 x 77 x 161 mm (height x width x depth)
LED indications:			Weight: 207g
Control unit: Red = Fire, Amber = Breakdown, Green = Service			
Receiver: Optimal alignment LED			
IP Rating:	IP54 (Controller)		
Relative humidity (without condensation):	93%		
Components (System):			
1 transmitter (transparent lens)			
1 receiver (dark lens)			
1 control unit			