

TELETEK



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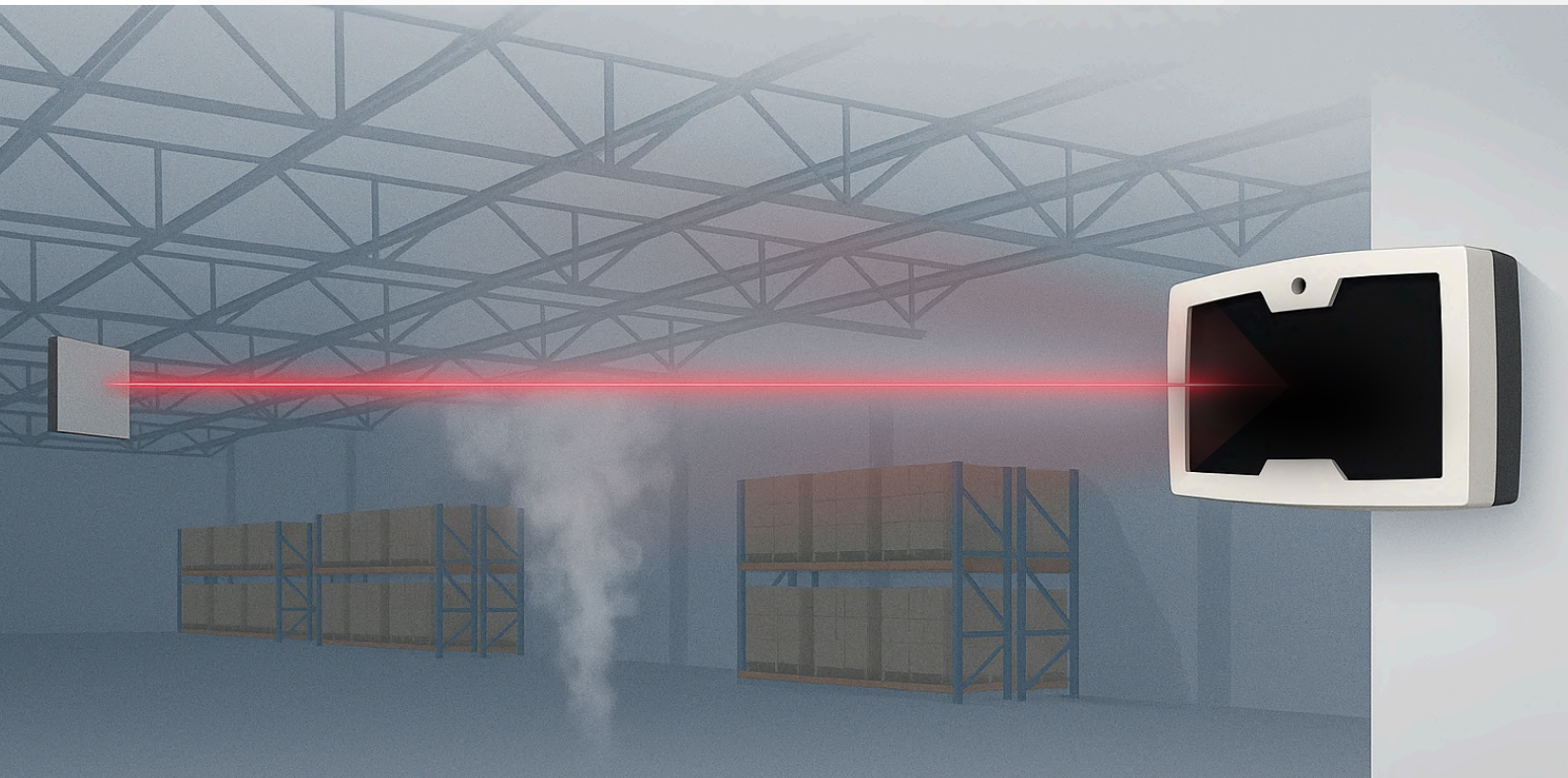
Beam Smoke Detectors



What is a Beam Smoke Detector?

Beam smoke detectors, also known as linear optical smoke detectors, are specialized devices designed to monitor large open spaces for the presence of smoke particles.

Unlike typical smoke detectors that sample air locally, a beam detector uses a projected light beam across a long distance to sense smoke anywhere along that path. The system consists of a transmitter and receiver/reflector (or a combined unit with a reflector).



The transmitter sends an infrared beam toward the opposite wall; where a reflector sends it back, so that the intensity of the returning signal is continuously measured. When smoke enters the optical path, it scatters and absorbs the beam, causing a measurable drop in signal strength, which the detector interprets as a smoke condition and triggers an alarm.

Where are Beam Smoke Detectors Used?

Beam smoke detectors offer a wide coverage area - typically up to 15 m in width and 60 m in length per detector. This makes them ideal for buildings with large volume, high ceilings, or difficult-to-reach areas, such as:

Warehouses and logistics centers

Hangars, airports, or shopping malls



Museums, cathedrals, and historic sites



Large production halls or assembly areas

Beam Detectors have their pros and cons. Some models can also complement other fire detection systems: for example, in combination with other detectors and sirens.



Advantages:

- **Wide Area Coverage:** One device protects a large space, meaning fewer units are needed - and less wiring.
- **Simplified Installation:** Fewer mounting points; especially valuable when it comes to tall ceilings.
- **Cost-Efficient:** Reduced cabling, labor, and commissioning time.
- **Architectural Flexibility:** Minimal visual impact, suitable for heritage or design-sensitive sites.



Things to Consider:

- **Line of Sight Required:** The beam and reflector must remain unobstructed.
- **Vibration or Movement:** Significant structural motion may affect alignment (auto-calibration helps compensate).
- **Environmental Conditions:** Heavy dust, fog, or strong light sources can affect readings if not properly configured.

Our Beam Detector Solution:

Teletek BEAM detectors are designed for effortless installation and operation. Our solution is developed to ensure early and reliable fire detection in wide or high spaces where traditional detectors cannot perform effectively.



Precision Laser Alignment: Simplify installation with our built-in laser pointer, ensuring effortless and accurate alignment between the detector and the reflector.



Fine-Tune for Perfection: Achieve optimal coverage with precision - three dedicated adjustment screws allow installers to fine-tune alignment before activating the autocalibration process.



Smart Autocalibration: Experience seamless setup with our one-touch autocalibration feature. With a simple dip-switch activation, the detector automatically adjusts for perfect operation in any environment.



Range: The detection range of 5 to 120 meters allows for installations in both tight spaces and large warehouses.

A Fit for Every Project

Available in addressable or conventional versions, the Teletek BEAM range fits every project - with BM60 covering up to 60 m and BM120 reaching 120 m for flexible protection across any space.



Addressable

SensoIRIS BM60 / BM120



Seamless Integration:

Both variants flawlessly with our addressable fire alarm panel range for smooth, efficient operation.



Loop-Powered

Flexibility: Connect directly to the loop for power and communication, with optional external power when required.



Panel-Level Control & Diagnostics:

Installers can monitor signal coverage and adjust detector sensitivity directly from the panel for optimal performance.



Conventional

SensoMAG BM60 / BM120



Universal Compatibility: A versatile solution, designed to work with virtually any system via standard input/output connections.



Flexible Power: Operates on 12–24 VDC, making deployment straightforward across a wide range of installations.

TELETEK

YOU CAN COUNT ON US



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