CUSTOMER SUCCESS STORY

OSID-R MEETS CRITICAL FIRE PROTECTION NEEDS OF TRUE DIGITAL'S ULTRA-MODERN INDUSTRIAL WAREHOUSE

About End User (True Digital Systems Brazil)

True Digital Systems Brazil provides industrial condominium services.

Industrial condos are popular and cost-effective business properties, and have multiple owners. Each owner holds individual ownership of a single structure within the unit or multi-unit structures. Each owner holds joint ownership of commonly used areas, including land areas, parking lots, sidewalks, and hallways. And each owner pays a regular fee to the building condo association, the proceeds of which go toward maintaining community amenities, including building maintenance, utility expenses, and cleaning services for common areas.

The Challenge

True Digital recently built a 100,115 square-foot ultra-modern, industrial condominium warehouse in Cajamar, San Paulo, Brazil. The building features large open spaces and the latest advances in building design and construction. It also features easy access by trucks and the latest environmental amenities. Since the building houses multiple businesses and their products, superior fire protection is a must if True Digital wants to keep its tenants.

The challenge is the large, open atmosphere. Any bundled smoke detectors installed would need to withstand the pitfalls of an open environment. Traditional smoke detectors with only IR technology were ruled out by building designers because of their lack of reliability in the building's expansive environment. These types of smoke detectors tend to generate false alarms

PROJECT:
True Digital Warehouse in Cajamar

END USER/LOCATION:
Cajamar, Brazil

INDUSTRY:
Industrial Condominium Property Services

SOLUTION:
OSID-R

and increase maintenance costs in this type of environment. True Digital needed more reliable smoke detectors to protect its tenants.

The Solution

Building designers specified the new OSID Reflective Imaging Smoke Beam Detector (OSID_R) for True Digital's new warehouse. The OSID-R combines the latest advances in IR and CMOS technology in a single unit, creating a highly reliable device that dramatically reduces false alarms from things like building movement (up to 1 percent), object intrusion, and sunlight saturation. The detector's CMOS imager serves as a receiver to provide rich data that helps differentiate between smoke and foreign objects. In other words, the imager allows the unit's receiver to "see" the target and process environmental information and deliver rapid and trouble-free operation with a lower cost of ownership.

Key features of the OSID-R include:

- Wide 12° field of view
- Intuitive beam alignment indicated by directional arrows
- Single IR wavelength
- Highly resistant to building movement; tolerates +/- 1° movement
- Resistant to intense light sources up to +/-10°; does not alarm when saturated by sun

- Automatic sensitivity threshold level setting
- 50° horizontal and 20° vertical beam alignment
- Built-in heater
- Electronic simulated smoke test from ground level
- Standby, fault, and alarm LED indicators visible from the front and bottom
- Automatic drift compensation
- Removable plug-in terminal blocks

The OSID-R is ideal for True Digital's warehouse because of its ability to protect buildings with large open spaces. The unit required no conduits or visible wires, enhancing the building's aesthetics. UL, ULC, FM, and CFSM approved, the OSID-R has a three-year warranty.

Free and Easy Installation of OSID-R

Installing the OISD-R in True Digital's warehouse was quick and easy. The workers easily addressed minor issues that typically come with installations. Because OSID-R has only a reflector, and its sender and receiver are single-ended, the OSID-R saved True Digital installation time and money. No measurement or judgment on their part was required to align the detector.

Instead, the unit's CMOS imager allows the detector to find and lock onto a standard reflector. Once this occurs, the imager sets the sensitivity automatically based on the size of the square reflector in the field of view, reflecting its distance from the detector. The OSID-R's design eliminates nuisance false alarms and faults due to building movement and other causes. Also, the OSID—R connects directly to a conventional FACP or an addressable/intelligent FACP using zone modules or IO units.

The OSID-R smoke detectors meet the critical smoke detection demands of True Digital System's industrial condominium warehouse. They protect the building's contents, provide trouble-free operation, allow for easy maintenance and servicing, and is easy to align and commission. These advantages boost True Digital's competitiveness in the Brazilian real estate arena and deliver low cost of ownership to the realtor.