

## SECURITY

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*By Thomas Cordeiro*

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## New-generation of automatic doors can include diverse security features

In today's busy retail environment the most important consideration has always been, and will continue to be, the safety and the ease of egress of customers. Store owners want people to be able to move freely and safely into the store and depart safely after.

This is one of the primary reasons for the development and acceptance of automatic doors. Owners want to eliminate the need of the customer to even concern themselves with the opening of a door. This has helped to spread the acceptance of automatic doors in the majority of today's retail locations. Many national stores that previously utilized manual doors are now converting to automatic doors. Not only do they make egress safer, but when equipped

with recent new product developments, they can offer an additional layer of loss prevention and security as well.

In the United States, automatic doors are safer than ever before. New American National Stan-

dards adopted in 2005 have added more levels of protection to the customers. Utilizing either infrared, microwave, or many times a combination of both, the automatic door sensors can detect motion of approaching people and react faster than ever, avoiding most customer accidents. Automatic door sensors detect motion and presence in the areas around the door and are designed in compliance with the ANSI Standard A156.10; the American National Standard for Power Operated Pedestrian Doors. This document states: "requirements in this standard apply to power-operated doors for pedestrian use, which open automatically when approached by pedestrians and some small vehicular traffic or by a knowing act. Included are provisions to reduce the chance of user injury or entrapment."

The A156.10 standard covers only full-energy automatic doors. ANSI standard 156.19 governs power assist and low energy power operated doors. All automatic doors must comply with requirements for opening and closing speeds and forces, breakout force, activation zones and safety zones, guide rails and signage.

The activation of a full energy automatic door is accomplished through the use of a vision sensor, microwave sensor and/or infrared sensor or activation mats that detect someone approaching the door. Safety zone monitoring is typically accomplished through the use of vision sensors, or infrared sensors that sense objects in the threshold after the door has opened or in the case of certain swing door systems, is in the path of the opening or closing door. If the automatic door is a low energy system, activation is accomplished through the use of push buttons and radio controls. All major automatic door manufacturers must comply with these standards, as they provide general rules and guidance for the automatic door industry, but they are not the most important factor.

Designing doors to meet these and other life safety codes is important, but the most important factor is protecting the public. And the best way to ensure the protection of the public is through a comprehensive and ongoing preventive maintenance schedule. This will ensure that the door package is functioning safely and efficiently.

Major manufacturers

offer preventive maintenance programs and will visit regularly to provide this service. When making a choice for an automatic door provider, be sure to ask what preventive maintenance program they offer. Many times this will offer increased liability protection and save your company money in the long run. Establishing a long term relationship for preventive maintenance with the automatic door manufacturer is important not just for the initial installation, but for the months and years to follow.

This will ensure that not only will your retail

location receive comprehensive service at regular intervals, but the automatic door provider can offer additional services including a wide range of available options to help optimize the door package before the installation or even long after the installation is complete to enhance the safety and security of the automatic door package.

With regard to security and monitoring, most door manufacturers now offer an array of options specifically developed for loss prevention and as theft deterrents. Camera-based visual surveillance systems can be used for

activation of the automatic door package and may also be used to record a wide range of events at the door including unauthorized entrance, loss prevention and the monitoring of intentional door tampering.

Jamb-mounted cameras may also be an important addition to a new or existing door package. This small camera placed in the door jamb provides a unique perspective on the door threshold and may be used for loss prevention and theft as well. The position of the jamb camera can, many times, identify individuals easier and faster than even cam-

era-based surveillance systems due to their proximity to their intended targets. If the surveillance camera is mounted high above the ground it is difficult to identify people, especially when they are wearing hats or scarves. But with a jamb mounted camera, these individuals can be identified more easily.

Integrated alarm contacts provide a high-level perimeter security and can be retrofitted into almost any door package design. Alarm contacts provide the ability to monitor all door openings, provide a single circuit connection for secu-

urity integrators, are easy to maintain, are cost effective and requested by some security professionals.

Other safety-related options, such as integrated battery backup devices, are also becoming more and more important in the retail environment. The ability to continue to provide power to the door package even during a complete power failure to the building is a good way to ensure safe and secure egress from the store during these occurrences.

It is important for architects and specifiers to take the time to consider the supplier that is selected as

the automatic door provider. Working with a door manufacturer, and in some cases a specific project management team within that organization, will help the architect to ensure he or she is making the right choice for the automatic entrance, and customize the package to meet specific needs. They should be sure to consider a number of items when making that important choice:

Does the automatic door manufacturer produce the doors necessary for my application?

Will the automatic door manufacturer custom design doors to meet the

needs of the architect/specifier and the customer as well?


Does the manufacturer offer a complete and scheduled preventive maintenance plan?

Does the manufacturer offer a specialized team of project management professionals that will manage my project and ensure that I am meeting industry codes and specifications, and in the case of major retailers, the specifications of my corporate office or headquarters?

Will the manufacturer work with me before the job is complete and long after to offer a wide range

of options for automatic doors targeted to meet my specific needs?

Does the manufacturer offer a telephone hotline for technical support and customer service that is available to me and my customer during extended business hours?

Does the manufacturer comply with the new standards set forth by ANSI A156.10 2005 for full energy doors and A156.19 for low energy automatic doors? 

*Thomas Cordeiro is the product marketing manager for Stanley Access Technologies based in Farmington, Conn.*