

Foremost Farms USA & Deppe Enterprises partner with Rite-Hite to upgrade roll up doors in state-of-the-art cold storage facility

BEA Division - Industrial Automation Solutions

Industry Market - Cold Storage

Door Manufacturer - [Rite-Hite](#)

BEA Product(s) - LZR®-WIDESCAN; motion, presence and safety sensor for automatic industrial doors

INTRODUCTION

Foremost Farms USA and Deppe Enterprises recently partnered with Rite-Hite to upgrade a 300,000 sq. ft. dry storage warehouse in Baraboo, WI into a state-of-the-art cold storage facility. Renovations included wall-to-ceiling insulation, foundation permafrost prevention, automated pallet systems and the installation of Rite-Hite's FasTrax FR high-performance doors.



THE CHALLENGE

With a variety of temperature sensitive areas including coolers, freezers and ambient rooms, maintaining consistent temperatures are critical for cold storage operations. As proper food storage is demanding, Rite-Hite's FasTrax FR doors were equipped with microwave and infrared sensors to ensure proper door functionality as forklifts passed in and out. A month after renovations were complete, Deppe Enterprises received notification that the temperature in a cooler section of the facility had climbed to unsafe levels. The culprit was a door stuck in the open position. Without noticeable floor markings or sensor tampering, the ghost cycle most likely resulted from the large fans that are used to combat frost buildup on the doors.

THE SOLUTION



To avoid future interferences and resolve the ghosting doors, Rite-Hite worked with BEA to deploy the LZR-WIDESCAN, a LASER-based sensor designed for activation, safety and presence detection on industrial doors. The advanced volumetric detection field has the ability to distinguish between objects based on their direction, speed, size and height. The LZR-WIDESCAN also proved to be immune to the false activations triggered by the old sensors. Of added benefit, the LZR-WIDESCAN included cross-traffic rejection meaning that forklifts passing, but not entering, a door would not trigger activation.

Along with utilizing a different technology, the LZR-WIDESCAN also has a built-in heater setting, which proved essential in the -6 degree Fahrenheit storage areas. It's common for a sensor lens to frost over because of the negative degree temperatures. With the ability to turn the heater setting on auto, frosted lenses are avoided.

THE RESULTS

Since the LZR-WIDESCAN sensors were installed in December 2017, the high-performance doors have been functioning without further issues.