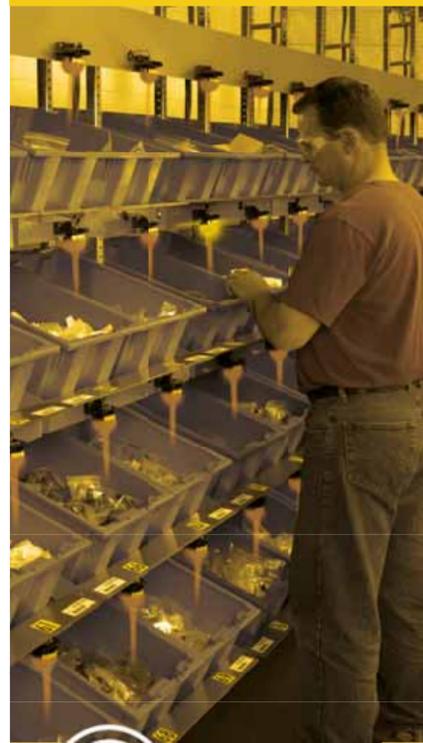
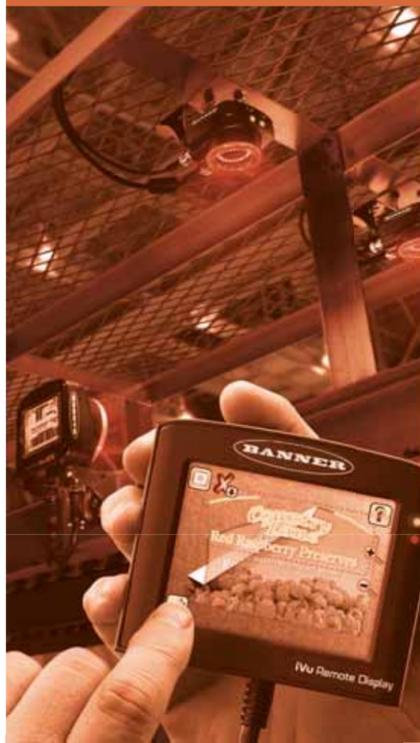
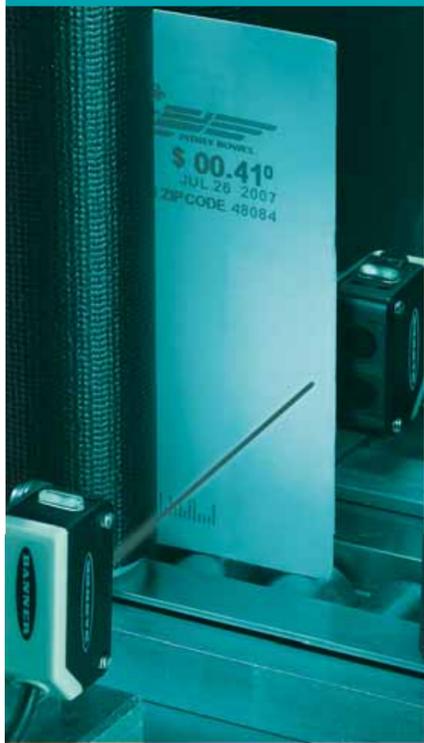


Industry Solutions for Secondary Packaging



Sensors



Vision



Wireless I/O



Lighting & Indicators



Machine Safety





1 WLS28 Work Light Strips
Using high-powered and long-lasting LED technology, the two WLS work lights are both compact and bright enough to use in this area for optimal visibility.



2 Safety Hinge Switches
Stainless steel, load-bearing safety hinge switches support the machine door and will shut down the machine if the doors are opened.
SI-MAG Series Magnet-Style Switches
The compact SI-MAG Series Magnet-Style Switches with sealed components are more accommodating to misalignment than mechanical switches and minimize the risk of intentional defeat.



3 QS30 Adjustable-Field Sensor
The advanced QS30 with enhanced foreground suppression detects the frozen dinner and signals a "no product, no carton" function when the bucket is empty.



9 Sealed P4 OMNI-OCR Inspection
The rugged P4 OMNI is used for Optical Character Verification/OCV inspection to ensure that the correct day and lot code are printed legibly.



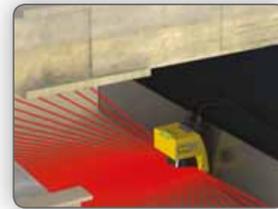
10 QS18LP
The first QS18LP sensor counts the number of cartons so that the robot knows to load the package after two cartons are counted; the second QS18LP triggers the conveyor to stop so the robot can load the cartons into the box.



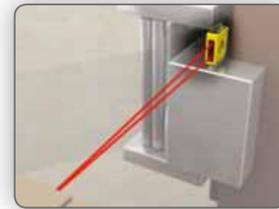
11 IP67-Rated TL50 Buzzer on Top of Machine
The energy efficient, audible TL50 indicates the status of the cartoner for workers and supervisors.



12 L-GAGE LT3
The LT3 time of flight laser with analogue output measures the distance from the sensor to the last box to determine when to call for more cases.



20 AG4 Area Scanner
The AG4 Safety Laser Scanner with a 190° scanning angle safeguards the area with a warning and protective field to protect the operator from danger and maximize productivity.



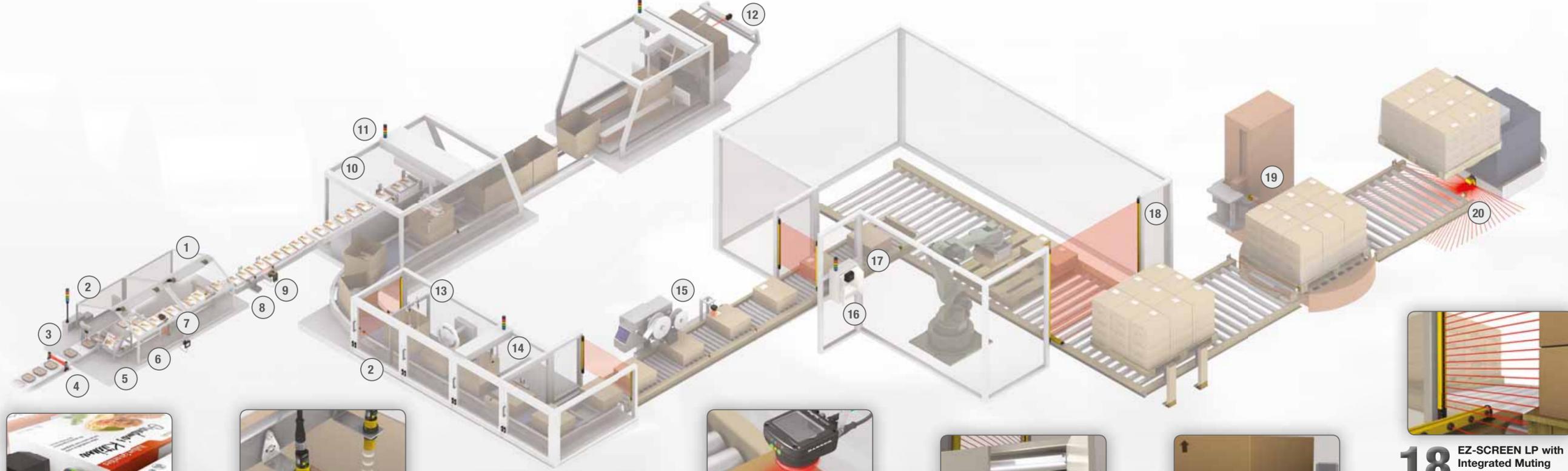
19 Q60AF Sensor
The adjustable-field Q60, which can see targets up to 2 m away with a sharp cutoff, detects the presence of the package, and stops the shrink-wrapping function when it no longer "sees" the top of the pallet.



4 LX Series Part-Sensing Light Screen
With a web of modulated light, the LX Series Light Screen is exceptional at detecting the leading edge, and triggers the conveyor to speed up or slow down so that each frozen dinner enters correctly in each bucket.



5 QS18 Fixed-Field Sensors
A QS18FF50 fixed-field sensor monitors the fill level of the carton magazine, and will signal a refill at a specific fill level of the magazine to keep the cycle going.



6 iVu BCR
After the frozen dinner is placed in the carton, the iVu BCR reads a 2D code on the carton to ensure it is the correct carton to prevent packaging errors.



7 QS18LD
The QS18LD laser sensor scans across the top of the package to see if any flaps are open.



8 QS18LLP
With a narrow beam, the QS18LLP laser sensors provide precise position control when triggering various devices. The first QS18LLP sensor triggers the Ink Jet printer when the box comes across this part of the conveyor, and the second sensor triggers the P4 OMNI camera to inspect the package.



13 S18U Ultrasonic sensors
The S18U ultrasonic sensors are used for complete package inspection, even in low contrast situations, to ensure that it was packaged with the correct amount of products by measuring the height of product in the box.



14 T-GAGE T18M
The T-GAGE monitors the temperature of the glue beads to ensure the glue completely seals the case.



15 iVu BCR
The iVu BCR with an integrated touch screen reads the barcode to verify that the correct label was applied.



16 SC22-3 Safety Controller
The SC22-3 reduces the complexity of interfacing multiple safety devices and functions by controlling the entire safety system in one device.



17 QS30LP
The QS30LP verifies that there is a box in place to be picked up.



18 EZ-SCREEN LP with Integrated Muting
The EZ-SCREEN is used for safeguarding the machine area, and has a muting bar on the exit to allow the pallet to leave without stopping the machine cycle.