



ABB JOKAB SAFETY Products

Packaging industries Machine safeguarding products

Safety solutions for the packaging industry

Continuous operation and sustainability

The costs associated with downtime in a packaging facility can be very high. If power is lost during filling, picking, sleeving, or sealing of product, the entire line can be affected. These stoppages can range from several minutes to several hours and result in expensive manual intervention and possible missed deadlines.

Due to the high cost of downtime, most packaging facilities prefer to use higher performing materials and products to extend equipment life. Preventive maintenance is performed at specific intervals instead of waiting for equipment failure.

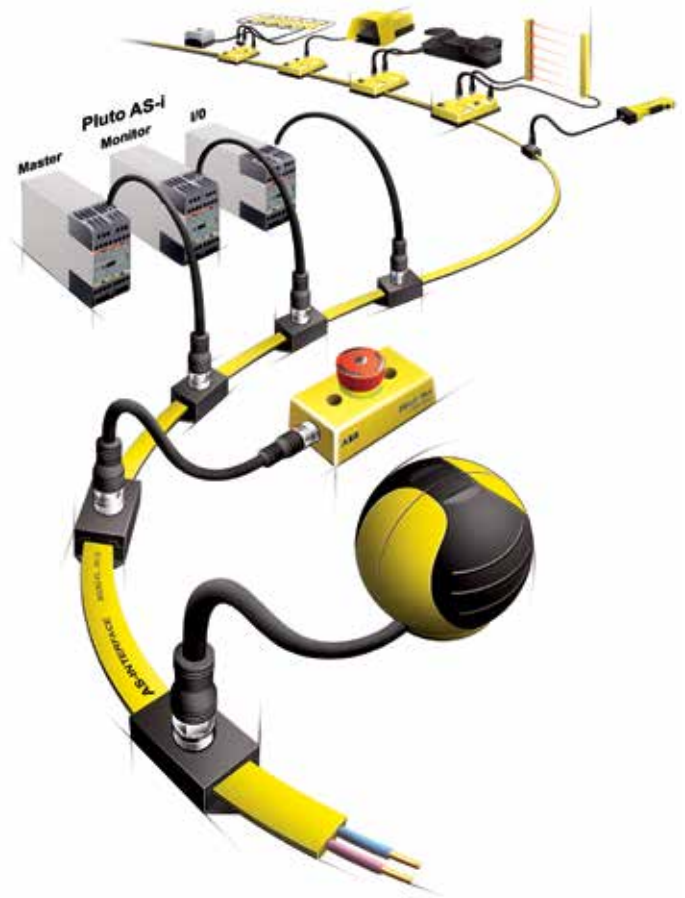
Global perspective and support

The increased globalization of the packaging industry continuously introduces new lower cost technologies, automation and material sourcing. This growing competitive landscape coupled with rising material costs, inflation and overcapacity affect operations and profitability for North American based companies.

To compete in this challenging market, a global approach must be utilized when investigating product selection. Products and systems need global approvals to the various safety standards as well as have tight control over manufacturing costs. In addition, products and solution sets need to be supported through a global footprint thus maintaining crucial uptime.

Machine Safety – Productivity - Profitability

Productivity and machine safety are not contradictory terms. ABB JOKAB SAFETY knows that machine safety solutions that are properly designed and executed will increase productivity and profitability. By engineering safety systems in a smart way, the mode of operation will not need to be changed to meet safety requirements. Instead, this creates a system that is operational-friendly and takes into account the business and its productivity objectives.



Safety products for filling machines



- Eden is a non-contact, non-magnetic Category 4, SIL 3, PLe safety door sensor with an IP69K wash down rating.
- High misalignment tolerance of up to 15mm +/- 2mm makes the Eden more reliable than conventional switches.
- LED and PLC output for device and system status makes set up and troubleshooting quick and easy.
- Available with integrated independent illuminated reset function for local control and notification of which door needs to be reset.



- Vital 1 Controllers allow up to 30 devices to be wired in series, single channel and maintains Safety Category 4, SIL 3, PLe.
- LEDs on all field devices give immediate diagnostic of both the device and overall system.
- Vital reduces trouble shooting time, wiring time, and increases the level of safety.
- Offers up to 50% less wiring points which reduces possible points of failure and downtime.



- Robust stainless steel 316, IP69K emergency stop buttons for harsh wash down, food safe packaging applications.
- Bright dual function LED diagnostics allows for quick and easy identification of activated devices increasing machine up time.
- Available in 24VDC, 115VAC or 230VAC LED voltages.



Safety products for sleeving machines



- ASi reduces long cable runs with its patented single cable connection.
- Devices and installation time is reduced due to the direct connect piercing of the ASi cable by the field devices. A hundred connection points can be reduced to only a few wiring points.
- Immediate diagnostics back to the control system keeps systems running longer and activated devices addressed immediately.
- ABB JOKAB SAFETY offers a complete assortment of ASi integrated products.



- Quick disconnect Smile emergency stop devices reduce costly installation time. In addition to being pre-wired with a 5 pin M12 connector, Smile also comes with center mount holes and mounting hardware.
- LED and PLC output for device and system status makes set up and troubleshooting quick and easy.
- No additional contact blocks or pilot devices required. Smile reduces inventory costs.
- Multiple command functions can be integrated into a single Smile device reducing install time and inventory costs.



- Safety solenoid locking switches are ideal for applications where it is not desired to have the door opened during production.
- Metal housing and IP69K stainless steel version for harsh packaging industry environments.
- Available with emergency release button located on the inside of the cell for exit functions.
- Flexible key options simplify alignment and reduce wear and tear.



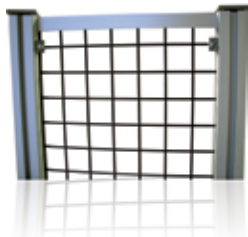
Safety products for case erecting machines



- Integrated muting in all FOCUS II Safety Light Curtains for easy material transfer in and out of the cell without stoppages.
- Protective wash down enclosures protect against harsh packaging industry environments.
- Light curtains and enclosures are manufactured in North America for quick delivery.
- All features are built into a single model which reduces plant inventory.



- Safety rope pulls allow for long range E-Stop capabilities along conveyor runs.
- Available with dual head which eliminates needed components and reduces overall material costs and installation cost.
- Bright dual function LED diagnostics allow for quick and easy identification of activated devices increasing machine up time.
- Available with rope kits and field installed E-Stop buttons.



- Robust modular fencing for quick and easy machine guarding applications.
- Quick Guard panels can be customized in the field with only a pair of bolt cutters which reduces design time.
- No welding, drilling, tapping or painting required.
- ABB JOKAB SAFETY Products easily mounts with ready-made brackets and fasteners reducing installation time.
- Panels are manufactured in the United States for immediate delivery.



Safety products for case packing machines



- Safety Edges and Bumpers are safety devices that attach to the leading edge of transfer stations or automated doors/hatches.
- Safety Mats are ideal for personal detection inside hazardous areas to prevent accidental reset.
- Both Edges and Safety Mats are manufactured in the United States for immediate delivery.
- With a Vital controller, independent diagnostic of each mat/edge is available for increased machine up time.



- Pluto Safety PLC allows for system zoning through multiple different switching outputs.
- Complex safety logic can be accomplished quickly with the easy to use, value added, Pluto Manager software.
- Damaged units in the field can be “hot swapped” with full program upload without the need of lap tops, programming cables, programs, validation or passwords.
- One 45mm wide Pluto can monitor up to 150 devices.
- Eliminates the need of costly safety relays in the panel and reduces plant inventory.



- Enabling devices allow maintenance to enter the cell under a controlled speed for troubleshooting and machine adjustments.
- If the operator squeezes the device too hard or releases it, a stop signal is generated.
- Enabling devices reduces the amount of time maintenance needs to trouble shoot a machine.



Safety products for packaging industries



- One universal safety relay can handle dozens of different safety devices which reduces plant inventory.
- LED diagnostics for each input channel as well as each output relay reduce trouble shooting time.
- High input impedance allows for long cable runs without signal loss or nuisance trips.



- Knox safety lock is ideal for machines that have a slow stopping time or stored energy.
- Knox will remain locked during power loss and offers an emergency release from inside the cell for added safety.
- Robust construction with a stainless steel housing ideal for demanding environmental conditions.
- LED indication for lock status, door status and machine status helps with system trouble shooting and maintaining machine uptime.



- Stainless steel 316, IP69K safety switch and emergency stop offering for harsh wash down applications found in many areas of the packaging industry.
- LED diagnostics allows for immediate device status for continued uptime.
- Product offering eliminates the possibility of food contaminates by eliminating plastics and paint in the design.



- Safety rated port blocks reduce long cable runs which reduces installation time.
- All Tina 4A/8A safety port blocks offer independent diagnostics for each device connected.
- Quick disconnect allows for system modularity and versatility for design changes as well as last minute additions to the safety system.



- Pluto Safety PLC gateways offer seamless handshaking of information between the safety system and the control system.
- Gateways allow bi-directional communication to all PLC platforms.
- Gateways are integral in modular safety solutions where machines may need to be changed, added to or expanded depending on the application.

Contact us

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