

Customer:

Algus Packaging, Inc. | www.algus.com

Customer Requirements:

- Simplify safety feature management
- Provide high-visibility status indicator light

Banner Solution:

- SC22-3E Safety Controller
- EZ-LIGHT™ CL50 Column Light

Why Banner?

Simplicity – A single Safety Controller can replace multiple safety modules and circuits

Flexibility - Manage numerous safety-related functions using one Safety Controller

Ease – The available M12 connector makes it easy to mount the Column Light into new or existing machinery

“The scalability, the ease of wiring and the flexibility – that’s what really makes the Banner Safety Controller easier to use”

- Mike Kuhlow, Controls Engineer,
Algus Packaging, Inc.

Customer Benefits:

Scalability – 22 input terminals on the Safety Controller make integrating existing functions or adding functions easy

Connectivity – Ethernet-enabled Safety Controller is capable of monitoring safety and non-safety inputs and safety outputs

Visibility – Three color LED Column Light display provides easy-to-see equipment status indication

Learn More:

Watch the [Algus Packaging video](#) and others at www.youtube.com/bannerengineering

Visit www.bannerengineering.com for product information and to locate a distributor

Simplifying Safety Feature Management – Algus Packaging, Inc. Chooses Banner –

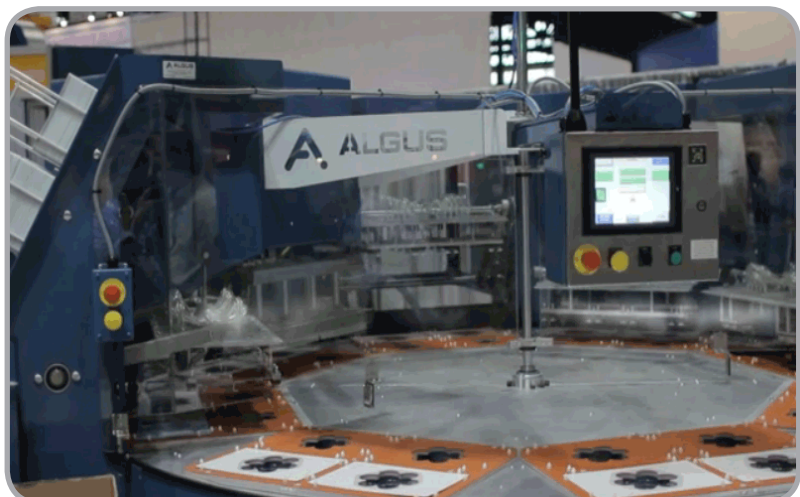


Mike Kuhlow and the Universal-8 from Algus Packaging

Background

Algus Packaging Inc. is a leader in the heat seal and thermoform packaging industry. They design, develop and manufacture high-performance sealing machines, thermoformed packaging and offer full service contract packaging. The machinery and services offered by Algus provide their customers with the ability to change and grow as business needs dictate, now and in the future.

The Universal-8 (U8/U8X) rotary sealer was designed by Algus for maximum flexibility. This agile machine has operational capabilities in a broad range of packaging applications and offers tremendous versatility in system operation. The modular design of the U8/U8X makes it easy to implement multiple machine configurations, alter equipment and expand the system, on-site and with minimal downtime.



Universal-8 Packaging System in operation

Safety Controller Features:

The SC22-3E is a totally configurable, flexible and Ethernet-enabled Safety Controller. It is capable of incorporating numerous input devices and managing multiple safety-related functions.



SC22-3E Safety Controller and accessories

- Network access to the Fault Log and System/Network parameters
- 32 configurable virtual status outputs with “Auto Configuration” option
- 22 input terminals can monitor both contact-based or PNP solid-state outputs
- 3 pairs of solid-state safety outputs with selectable 1- or 2-channel external device monitoring
- [Safety Controller overview](#)

Column Light Features:

The EZ-LIGHT™ CL50 Column Light is a rugged, cost-effective and easy-to-install multi-color indicator. It offers high-visibility operator guidance and equipment status indication.



EZ-LIGHT™ CL50 Column Light in red, gray and green variants

- 1-, 2- or 3-color models available
- Audible models available with standard or sealed audible element
- Completely self-contained — no controller required
- EMI and RFI interference immunity
- No assembly required
- 18 to 30V dc operation
- [Column Light overview](#)

Safety Management

Safety functions on the Universal-8 include three E-Stop push buttons and metal/Lexan doors with positive break electrical safety interlocks. These features had been managed using conventional serialized safety circuitry. The wiring was daisy-chained to several terminal blocks and redundant wiring connected to an input module. Albus wanted to simplify and centralize this system and build in additional functionality.



SC22-3E Safety Controller installed in the Universal-8 Packaging System

Albus chose the SC22-3E Safety Controller from Banner Engineering. The SC22-3E offers 22 available input terminals with versatile input circuitry. This made it easy for Albus to integrate all the existing safety functions available on the U8/U8X into a central location while providing the flexibility to incorporate additional features in the future. Ethernet connectivity on the SC22-3E allowed Albus to embed safety input and output monitoring capabilities into the U8/U8X.

Equipment Status

Albus wanted an at-a-glance equipment status solution for the Universal-8. The solution would need to be cost-effective, easy to see and have a rugged build.

The EZ-LIGHT™ CL50 Column Light from Banner provided Albus with a status light bright enough to provide clear indication of system operation at a distance and even in daylight. The LED light source ensured that Albus had a highly visible solution with long operational life and low power consumption. Housed in a completely self-contained IEC IP67

“I like the Column Light because it is simple and economical. It looks nice. I like the LEDs. I like the M12 connector; it makes it easy for the guys to wire.”

— Mike Kuhlow, Albus Packaging, Inc.

rated enclosure, the CL50 is ideal for challenging environments. It required no assembly and the available M12 connector made it easy to wire the light directly into the U8/U8X, resulting in reduced installation time.

Conclusion

By integrating the SC22-3E Safety Controller, Albus was able to dramatically reduce the complexity of safety function management while accommodating future changes. The selection of the EZ-LIGHT CL50 Column Light provided Albus with an easy-to-see, easy-to-implement equipment status light solution. The simplicity and flexibility of the Banner products allowed Albus to expand operational functionality and build in additional features to the Universal-8 while complementing the versatile design of this high-performing packaging system.

“Overall I am definitely happy with the Banner products.”

— Mike Kuhlow, Albus Packaging, Inc.