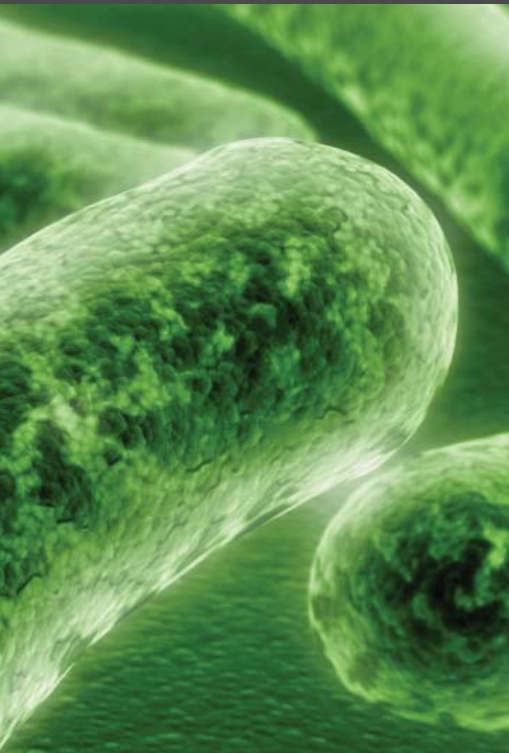


**Industry Solutions: Food Processing & Packaging**



**BACTERIA**



**ALLERGENS**



**CONTAMINATION**

# Prevention of Common Hazards.

The prevention of product contamination is vital in today's fast-paced food processing and packaging industries in order to prevent production delays, product recalls and lost revenues. Programs such as the Hazardous Analysis and Critical Control Points (HACCP) have been designed to help prevent food-borne illnesses and cross-contamination before it can affect the end user. By identifying and preventing hazards from contaminating food products, the HACCP not only increases efficiency, but it also places appropriate responsibility on the packager, manufacturer and distributor.

TR Electronic understands that the prevention of contamination involves more than just developing policies and procedures during the manufacturing process. It requires selecting the proper equipment and components to prevent bacteria growth and delivering the most precise object detection throughout the entire production process. Common hazards which may impact eligibility for HACCP compliance include: **Bacteria**, **Allergens** and **Contamination**, We Can Help!

## Prevention, Need Help?

Our customer care team is ready to assist you. Call us today to find out if you qualify for a free product demo and prevention assistance.

**Toll-Free:**  
1 (800) 265-9483

**E-mail:**  
customer@trelectronic.com

**On the Web:**  
www.trelectronic.com

## Solutions for Common Hazards:



### BACTERIA:

The high power spray, caustic chemicals and hot temperatures required during the wash down and sanitation process is not a recommended environment for most electronic devices. Often the harsh environments cause premature failures of standard opto-electronic and photoelectronic sensors. The innovative IP69K series of di-soric sensors can solve this problem. With its stainless steel casing and completely encapsulated design, the IP69K series have proven to be resilient to high-pressure wash downs, preventing the need to continuously replace damaged sensors allowing for proper sterilization of equipment.



### ALLERGENS:

Food allergies affect a large portion of the world's population, therefore ensuring proper and correct product labeling is a vital process in today's manufacturing environment. The label sensor by di-soric is an easy-to-use solution to accurately detect tears and splicing points and a wide variety of labels types and sizes. As well, the di-soric color sensor can be configured in order to verify label presence to ensure correct positioning. The color sensor can distinguish between fine hues and is the ideal solution for color-based sorting in any automated process. Eliminate labeling problems that could affect your business.



### CONTAMINATION:

If product packaging is not properly sealed contamination can occur even after the product is processed and shipped to the consumer. In order to reduce the risk of contamination tamper-proof packaging is used to guarantee the purity of products. Implementing a color sensor to monitor package seals can certify that the product is properly sealed. The color sensor by di-soric is sensitive to varying shades of color, enabling the detection of other flaws, such as burnt plastic or cracks in lids. Fork sensors may be used to ensure correct positioning to help reduce damages during packaging.

## Our Commitment and Products:

For over 20 years TR Electronic North America has been providing solutions for a wide variety of industries including the food processing and packaging industry. TR Electronic is committed to providing the best possible service and support to its customers. Therefore, to always ensure you have the help when you need it, TR Electronic offers a complimentary online support center, 24/7 technical support, installation and commissioning assistance, network/bus analysis and technical services training. **Visit us online for more information: [www.trelectronic.com](http://www.trelectronic.com)**

BACTERIA PREVENTION



### IP69K High-Performance Sensors

- IP69K protection with durable stainless steel housing
- High switching accuracy
- Extreme temperature resistance
- Fully enclosed optics for long-term reliability
- Durable enough for high-pressure and aggressive substances such as acids, detergents and disinfectant agents

### Capacitive Label Sensors

- Sensitivity adjustment via teach-in key
- Auto-teach during operation
- Remote teach-in with button lock function
- Push-pull, pnp/npn, NO/NC output

#### Reliable solution for:

- Metallic
- Clear-on-clear
- Splice Points
- Edge Detection
- Double-Edge Detection



ALLERGEN PROTECTION

CONTAMINANT ELIMINATION



### Colour and Surface Sensors

- Perceptive sensing principal
- Up to 255 channels in binary code
- Colour tolerance adjustment
- Short response time and surface control
- Adjustable colour tolerance
- Separate measurement for brightness and colour intensity
- Wide adjustment possibilities via PC
- Exportable data in Excel or CSV format

# TR Electronic Product Line:



TR Electronic is an innovator when it comes to capturing and processing positioning signals through its core products of automation and positioning sensors. Manufactured in Germany, TR Electronic provides high-quality products that can be customized to meet the demands of any application.

**Products Include:** Absolute Rotary Encoders, Linear Measurement Systems, Incremental Encoders, Laser Distance Measurement, Positioning Drives, Industrial PC's, Motor Feedback Systems and much more...



With over 25 years of experience in the field of sensor technology, di-soric is a global leader in manufacturing, supporting and marketing a wide variety of sensors, peripherals and accessories.

**Products include:** Fork Sensors, Angle Sensors, Laser Sensors, Frame Sensors, Ring Sensors, Motion Sensors, Label Sensors, Colour Sensors and much more..



Lightbarrier by TR Electronic is a complete line of safety light curtains that deliver innovative and easy-to-use safety sensing technology that you can trust

**Products include:** Type 4 safety light curtains for finger, hand and body protection. A variety of accessories are available for increased functionality.



Since 2005, vir sensors has been developing innovative products for contact-free object detection and measurement. vir sensors feature a compact design and are resistant against dirt, dust and other debris.

**Products Include:** High-powered Sensors, Door Edge Sensors and Accessories.

## We've Got You Covered!

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