

molex

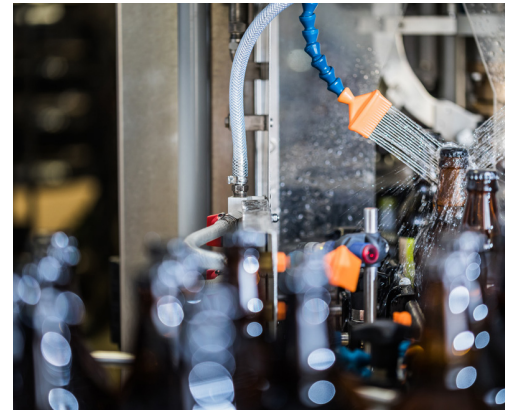
GROUND FAULT CIRCUIT INTERRUPTER (GFCI): TOUGH SEALING FOR TOUGH ENVIRONMENTS



Enhanced Woodhead GFCI Seal from Molex combines superior quality with peace of mind.

BUSINESS CHALLENGE

Extreme conditions and harsh environments require high-performance solutions that keep workers safe and downtime and lost revenue to a minimum. This is true in many industries, including commercial construction, mining and utilities, but even more so in the food processing industry, where water, moisture, humidity, and temperature changes can quickly combine to create dangerous environments and conditions if they are not dealt with properly.



SOLUTION

In the food processing industry, where humidity in the air, water on the floor and major temperature swings are the daily norm, devices have a difficult time performing under these demanding conditions for extended periods of time. Products must provide superior sealing properties in order to keep out contaminants, resist vapor and prevent water from seeping in during wash-down applications. Molex's enhanced industrial-grade, 20A Ground Fault Circuit Interrupter (GFCI) provides an exceptional solution by offering superior seals.

When Molex engineers realized improvements could be made to assist the food processing industry, they spent a substantial amount of time touring plant facilities and gathering feedback from customers about the challenges they face on a daily basis. While on the plant floor, the harsh conditions and resulting challenges became apparent. Hours of processing food at cold temperatures,

coupled with a rapid change to warmer temperatures and much higher humidity when cleaning and sanitizing equipment with high-pressure wash-downs (up to 1000 psi) often create conditions that can lead to the creation of a vacuum. A vacuum within electronic enclosures causes moist air to get sucked in, causing condensation to form. This is extremely tough to prevent and very damaging to equipment.

By observing common practices and performing thorough and rigorous testing, Molex engineers were able to take all things into account and come up with a new, reliable way to seal their GFCI devices. These rugged seals prevent condensation from forming by maintaining flexibility and sealing qualities in extreme temperatures, thereby minimizing the effects of moisture and heat while also keeping operations in compliance and reducing safety risks.



20A GFCI Device with NEMA 4X Rating



Seal

Back View of 20A GFCI Device with NEMA 4X Rating



CUSTOMER BENEFITS

Able to perform in the most demanding circumstances, Molex's industrial-grade, 20A GFCI products with enhanced seals increase workplace safety, saves you money and provide peace of mind, eliminating the need to worry about leaks or faulty equipment, by offering:

- Superior sealing properties within portable GFCI enclosures
- Plugs/connectors made with antimicrobial material
- Weatherproof NEMA 4X rating
- Plug-connector, flying-lead, and receptacle-box-style products

To learn more about GFCI products and solutions, contact us or visit www.molex.com/product/gfci.html today.

Molex is a registered trademark of Molex, LLC in the United States of America and may be registered in other countries; all other trademarks listed herein belong to their respective owners.