

Sensors resistant to chemicals or high-pressure washdown

Stainless Steel Photoelectric Sensors

E3FC Cylindrical M18



Diversey
The Clean, Healthy Future
ECOLAB

E3ZM Rectangular



ECOLAB

Target Markets & Applications

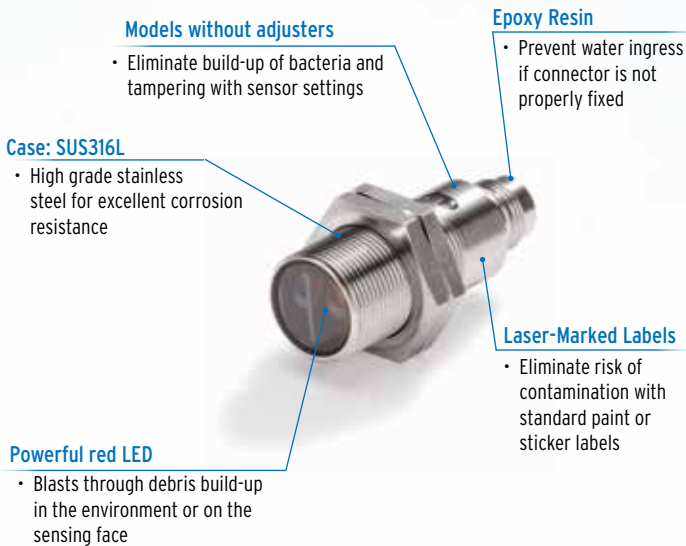
- Meat, Fish and Poultry processing equipment
- Food Handling and Conveyance
- Food Packaging
- Material Handling Equipment
- Pharmaceutical Equipment
- Soda and Fruit Juice Processing
- Dairy Processing
- Food Canning Equipment
- Wineries

| Features | Benefits |
|-------------------------------|--|
| Stainless Steel Housing | SUS316L resists corrosion from detergents and disinfectants commonly used in the Food & Beverage industry |
| Superior Wash Down Protection | Hermetically sealed stainless steel housing is superior for high-temperature, high-pressure water jet cleaning applications requiring IP69K: (DIN40050-9: 1160 to 1450psi, 80°C/176°F, 14 to 16 l/min or 3.7 to 4.2 gpm.) |
| Hygienic Design | Hygienic machine design contributes to reducing mechanical trouble spots or gaps in order to eliminate the build-up of bacteria and ensure an effective wash down procedure with detergents and high-pressure cleaning. |
| Enhanced Sealing | E3FC and E3ZM are enhanced to protect against chemical attack through the optics, housing and sensitivity adjusters. The E3ZM PVC cabling is secured into the housing to prevent chemical attack and wicking. The E3FC has epoxy filling on the cable/connector end to significantly enhance protection against water and chemicals. |
| Laser-Marked Part Numbers | Laser marked sensors prevent the risk of foreign matter, such as the paper or plastic labels of conventional sensors, from entering into the process. |
| Compact Shape | Small rectangular (E3ZM) or cylindrical (E3FC) size means increased mounting flexibility in tight spaces. |
| Sensor Type Variety | Standard diffuse, through-beam, and retro-reflective models available, as well as special application sensors such as background suppression. |

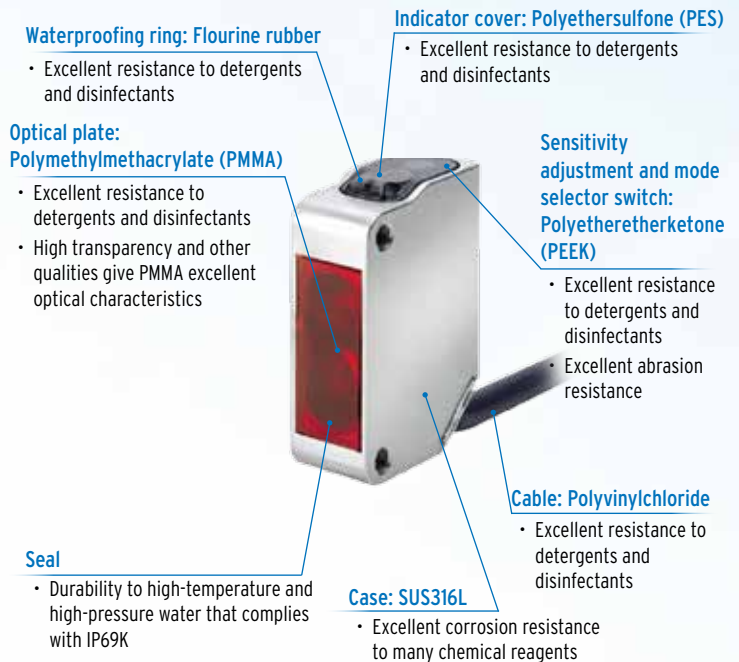
Designed for Superior Environmental & Chemical Resistance

Reduce replacement costs where conventional sensors fail frequently due to chemicals or high-pressure washdown

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E3ZM Rectangular



Environmental Specifications

| | |
|----------------------------------|---|
| Ambient temperature range | Operating: -25 to 55 °C Storage: E3FC: -30 to 70°C (with no ice or condensation) Storage: E3ZM: -40 to 70°C (with no ice or condensation) |
| Ambient humidity range | Operating: 35 to 85% RH Storage: 35 to 95% (with no condensation) |
| Insulation resistance | 20 MΩ min. at 500 VDC |
| Dielectric strength | 1,000 VAC at 50/60 Hz for 1 min. between current-carrying parts and case |
| Vibration resistance | Destruction: 10 to 55 Hz, 1.5 mm double amplitude for 2 hours each in X, Y, and Z directions |
| Shock resistance | Destruction: 500 m/s ² 3 times each in X, Y and Z directions |
| Degree of protection | E3FC: IP67, IP68, IP69K E3ZM: IP67, IP69K |