

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

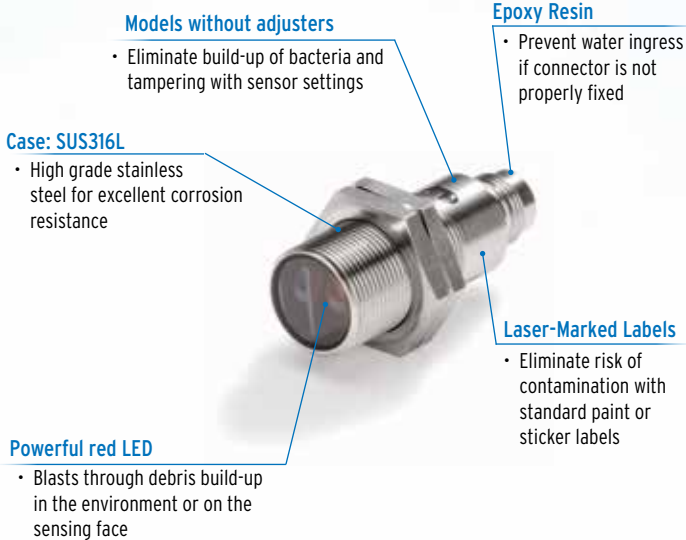
- Meat, Fish and Poultry processing equipment
- Food Handling and Conveyance
- Food Packaging
- Material Handling Equipment
- Pharmaceutical Equipment
- Soda and Fruit Juice Processing
- Dairy Processing
- Food Canning Equipment
- Wineries

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.

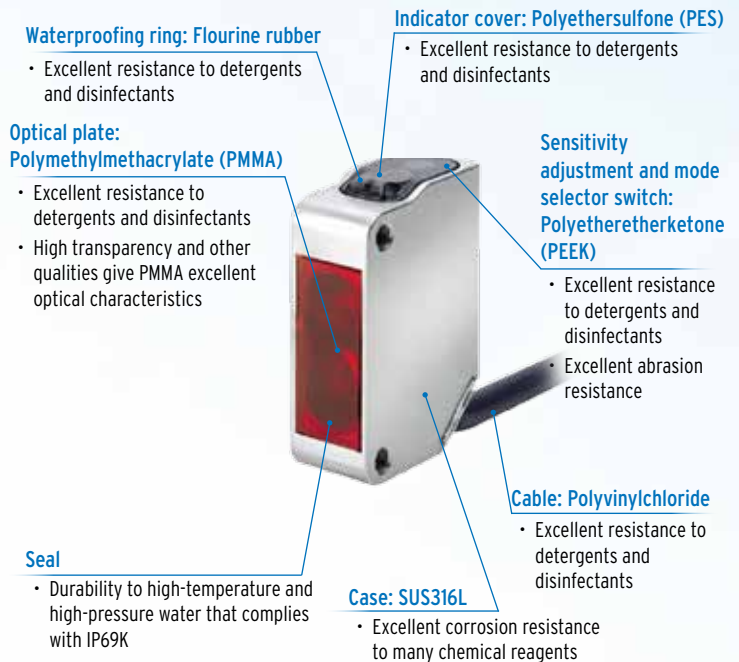
Designed for Superior Environmental & Chemical Resistance

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

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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