

SAFETY PRODUCTS

# Eden in food grade zones

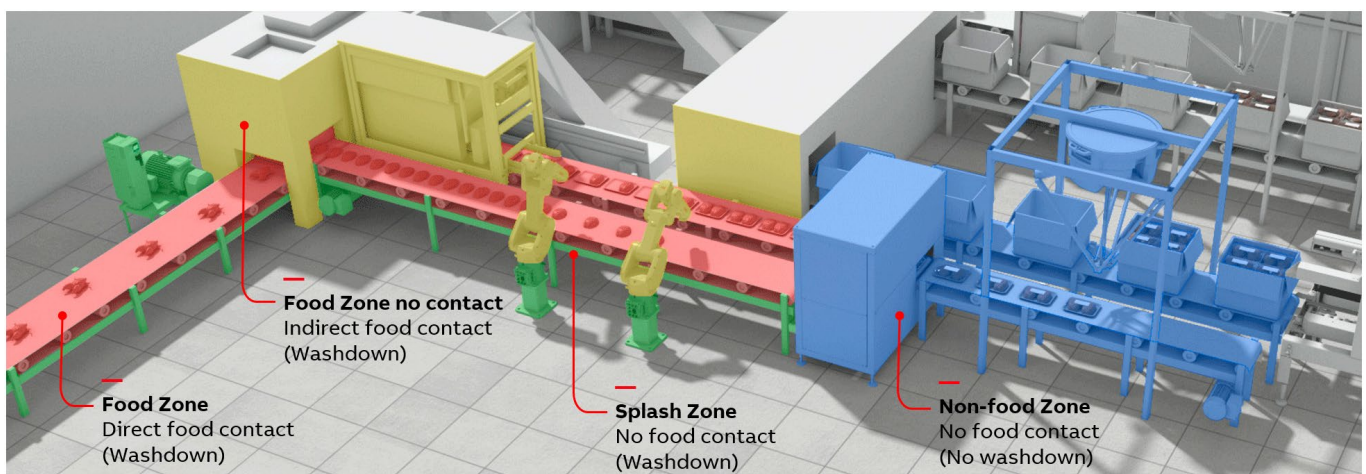
## Safety sensor for Food and Beverage industry

In the Food and Beverage industry the requirements on the equipment used can be tough. All Food and Beverage applications are not equal and that is why ABB enlarge it's family of safety sensors to cover a wider range of use and conditions where the Eden safety sensor could be a perfect solution.



### Food grade zones

There is a great variety of food processing applications with different hygienic requirements. A good way to categorize the requirements is to use the four different food grade zones (as defined by NSF), in order to clearer see which products are suitable where.



Food grade zones	Food contact	Washdown	Eden Standard	Eden C
Non-food zone	No	No	OK if within specifications	OK if within specifications
Splash zone	No	Yes	Not recommended	OK if within specifications
Food zone no contact	Indirect	Yes	Not recommended	OK if within specifications
Food zone	Direct	Yes	No	No

## Eden

### Non-contact safety sensor

Eden is a non-contact safety sensor used as interlocking device for e.g. doors and safe position monitoring. All Eden models have an IP67/IP69K sealing, but some models of Eden are also available with additional coated electronics (called Eden C). This increases the protection in demanding environments. Eden C has an increase resistance to rapid temperature changes and can be exposed to humidity up to 95%, regardless of icing or condensation.

No Eden sensor should be used in direct contact with foodstuff, since the housing is not designed and approved for this. But Eden C is recommended for Food and Beverage applications with washdown where there is indirect or no food contact.

Note that special consideration always needs to be taken to follow the specifications for e.g. temperature and cleaning.

See [Eden flyer](#) for product selection and [Eden product manual](#) for technical details.

Specification	Eden Standard	Eden C
Rapid cyclic temperature changes	Standard resistance for industrial applications	Increased resistance due to coated electronics
Humidity	35 to 85 % (with no icing or condensation)	35 to 95%
IP rating	IP67/IP69K	
Temperature range	-40 to +70 °C	
Cleaning chemicals and sanitizers	According to guideline in manual	
Hygienic design	No	
Installation	Important to follow mounting instructions to avoid damage on the sensor: <ul style="list-style-type: none"> <li>• Use correct torque on the M12-connector</li> <li>• Use correct torque on mounting screws</li> <li>• Use distance plates DA 1B</li> <li>• Make sure cable does not cause force on Adam</li> </ul>	