



# ***SENSORS***

# *FOOD AND BEVERAGE*

*Food and packaging systems*



# ***IPF ELECTRONIC***

**High-End** in High-Tech.



*SCAN QR CODE  
AND READ FLYER DIGITALLY*

## **MASTERING CHALLENGES IN FOOD PRODUCTION**

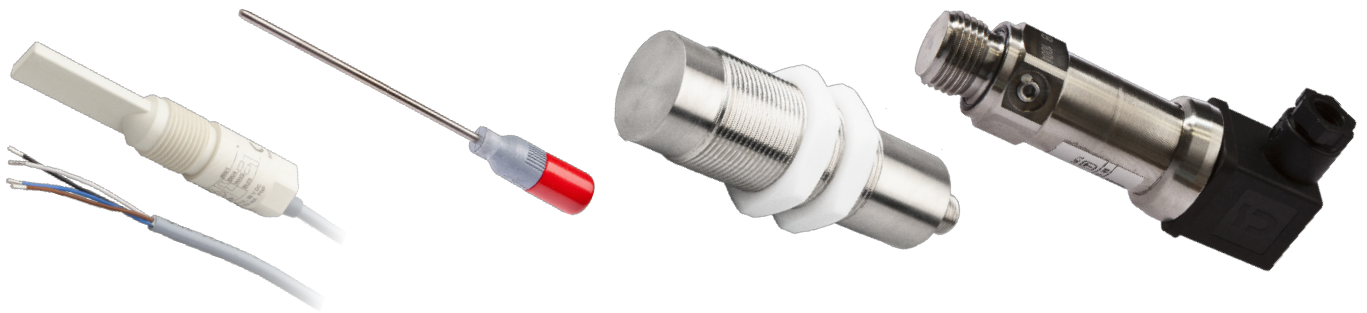
Global food production is confronted with a wide range of challenges and, as a result, is constantly evolving. Particularly in view of a growing global population and climate change, but also in exceptional circumstances such as a global pandemic, it is growing in importance as a system-relevant industry. Moreover, as the needs of consumers are constantly changing, the processes within the food industry must become increasingly efficient, and must do so while simultaneously using resources as sparingly as possible.

ipf electronic offers a number of solutions, in part with outstanding characteristics, for all areas of the food industry. We present a sample of our wide range of products to you here.

## **RELIABLE AND SAFE** **IN ALL AREAS OF FOOD PRODUCTION**

Our product portfolio includes various solutions that are suitable for the following areas:

- / Food area
- / Wash-down/splash zone
- / Periphery/non-food area



### **PRODUCTS FOR THE FOOD AREA**

- / Temperature sensors
- / Filling level sensors
- / Flow sensors
- / Pressure transmitters

The devices presented for these product areas are made of materials that **are approved for contact with foods in accordance with European law.**

### **PRODUCTS FOR WASH-DOWN AREA AND PERIPHERY**

A number of our products are suitable for the splash zone and non-food area. To make it easier for you to make a selection, only those solutions that satisfy higher requirements are presented here.

These include:

- / IP degree of protection  $\geq$  IP65
- / Increased corrosion resistance of the materials
- / Increased chemical resistance of the materials
- / Optimized product features (e.g., design)

## **PRODUCTS FOR USE IN THE FOOD AREA**

### **SIMPLY AND EASILY THROUGH THE CLEANING PROCESS WITHOUT DISASSEMBLY**

Products for direct contact with foods are the pressure transmitters from ipf electronic. Both the housing and the active surface of the sensor are made of durable V4A stainless steel (1.4404 / 1.4435). Due to its high temperature resistance, these sensors are ideal for even SIP (sterilisation in place) cleaning processes.

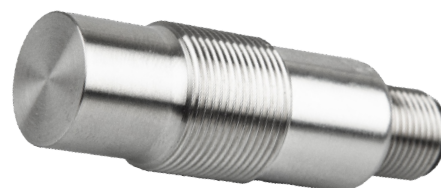
### **CLASSIC, CAPACITIVE FILLING LEVEL MEASUREMENT WITH SPECIAL CHARACTERISTICS**

Filling level checks are necessary in many different processes. Equally diverse are the possible measuring methods for filling level monitoring. The following two solutions can perform this task in hygienic areas.

One of the most common methods for checking filling levels is the wetted, capacitive filling level measurement. A special feature of our capacitive sensors of the **FK9xxxxx** series is the housing made of polytetrafluorethylene (PTFE), which is suitable for contact with food. Due to the shape of the piston, the sensors have an outstanding dripping behavior and are, thus, especially well suited for monitoring containers with viscous media.

### **OPTIMUM CHEMICAL RESISTANCE THANKS TO FULL STAINLESS STEEL HOUSING**

Our ultrasonic sensors monitor not only filling levels but also check them continuously and contactlessly at a switching distance of 150-800mm. The housing, made completely of 1.4404 stainless steel including active surface, ensures optimum chemical resistance during cleaning processes.



## **PRODUCTS FOR USE IN HYGIENIC AREAS**

### **LED INDUSTRIAL LIGHTING FOR INCREASED HYGIENE REQUIREMENTS**



An example from our product range for increased requirement conditions is LED industrial lighting. Unlike glass, the polycarbonate protective housing is shatterproof. Moreover, the special design of the lights without dead spaces minimizes potential deposits and enables simple, better cleaning.

### **MAXIMUM PROTECTION IN IP69K WITH EXTRA INTELLIGENCE THROUGH IO-LINK**



Suitable for both reliable as well as robust use in splash zones are, for example, our optical sensors with background suppression in wash-down design.

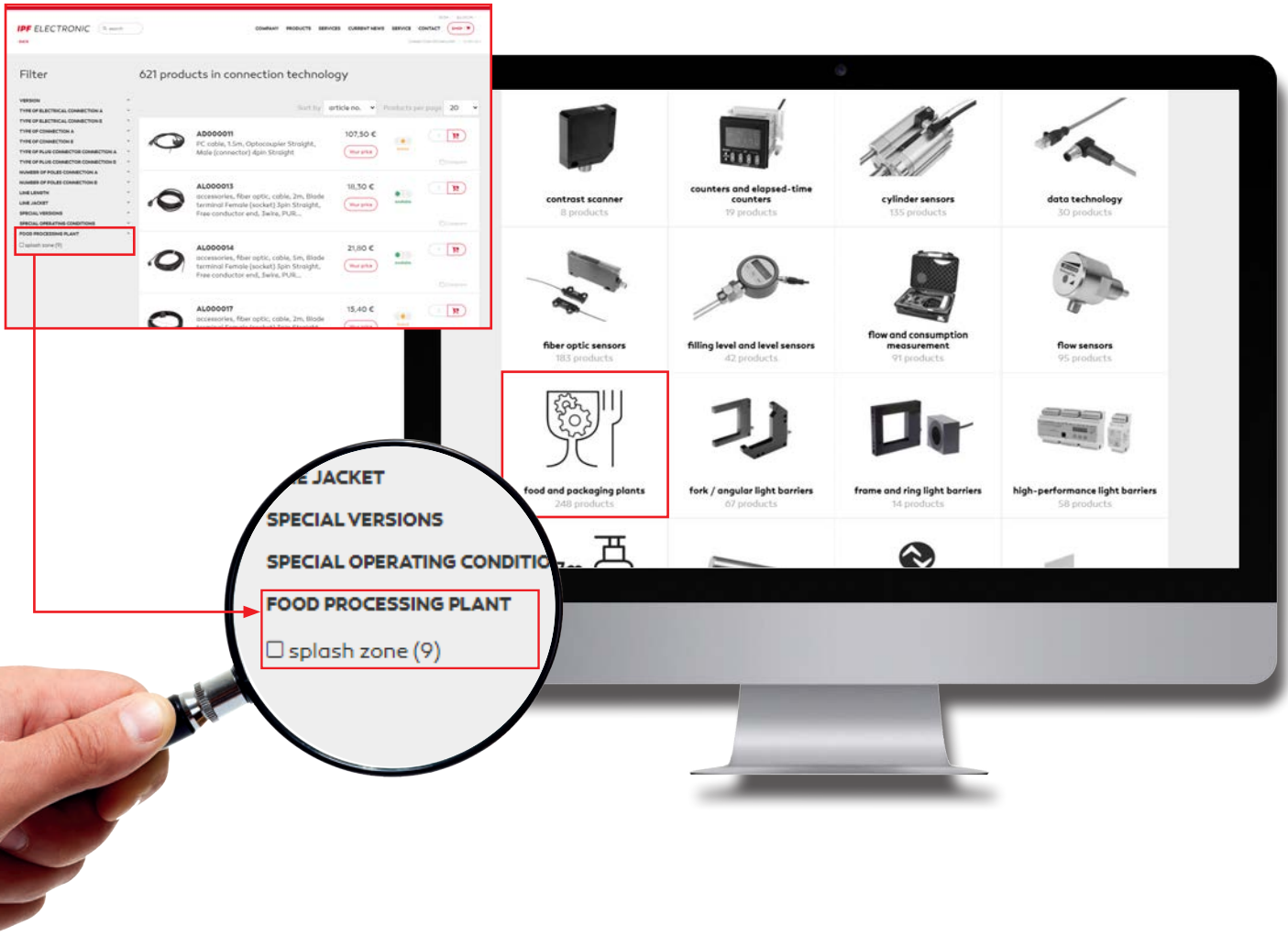
The housing, made of stainless steel (1.4404), is resistant to acids and alkaline cleaners. With the highest protection class IP69K, the housing is completely sealed, preventing the penetration of moisture during production or cleaning processes. Moreover, the additional IO-Link interface simplifies configuration of the sensors and thereby eases integration in existing processes.

#### **NOTE**

Because the requirements on production technology and the relevant valid regulations are so extensive and varied, it is difficult to ensure that a specific product from ipf electronic is actually suitable for a given application in every single case. Prior to practical use, each solution should be checked with respect to the given or required process parameters.

YOU CAN FIND FURTHER INFORMATION ON  
OUR CURRENT PRODUCTS AT

[www.ipf-electronic.com](http://www.ipf-electronic.com)



## WE'LL SUPPORT YOU WITH YOUR SELECTION

Use the filter function on our website at [www.ipf.de](http://www.ipf.de) to more easily find the product that's right for you.

An overview of all solutions for the food sector is also provided directly on the homepage under product selection.



## **EFFICIENT ADVICE ON ALL MATTERS**

***PERSONAL SERVICE AND PROBLEM-SOLVING ON SITE***

Every call is important! When you contact our technical hotline, you speak to experienced employees who will answer your questions competently and conscientiously. Our goal is to provide you with comprehensive and individual advice around the clock. Our expert team of in-house trained personnel are here to support you.

You can also contact your personal applications consultant in our Sales department. At ipf electronic, we work together very closely so that we are able to react quickly, competently and reliably to your specific query.

In almost all industrial applications, problems are becoming ever more complex and varied. Solutions to these problems often require external expertise. You will find this expertise together with a high level of specialist and problem-solving competence at ipf electronic. We are happy to discuss tasks which may seem small with you. For us, this is a matter of course!

ipf electronic is a renowned supplier of industrial sensor technology and a reliable partner. No customer query is ignored and no on-site customer appointment is missed. Our extremely broad range of products will convince you.

Diversity, expertise, consultation and flexibility:  
This is ipf electronic's recipe for success.



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