

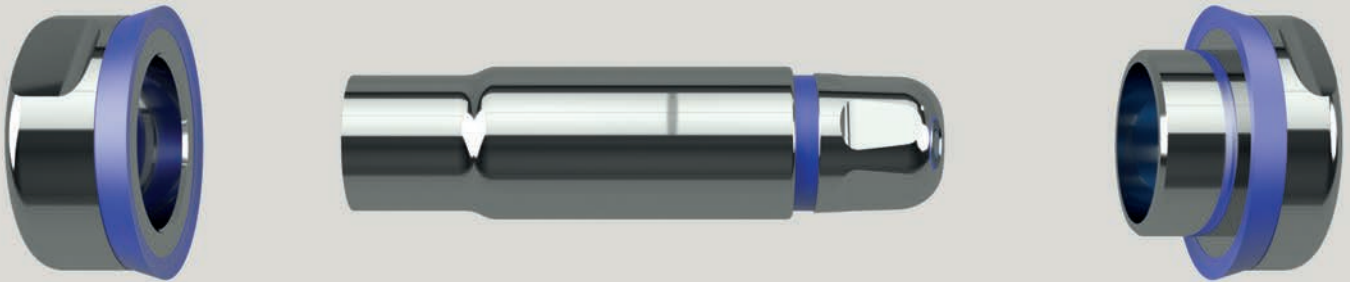
Ultrasonic Sensors for the Food Industry and Pharmaceutical Industry

EHEDG certified sensors, reliable
measurement solutions for high hygiene standards

Hygienic Design Clean and Safe

Hygienic Design

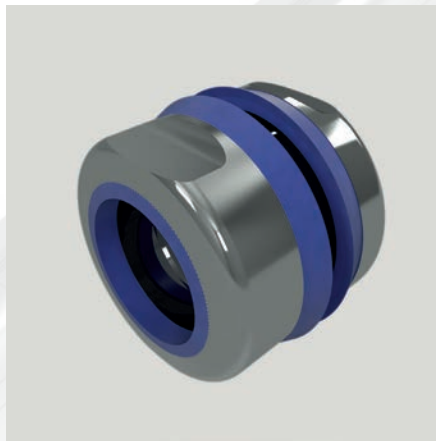
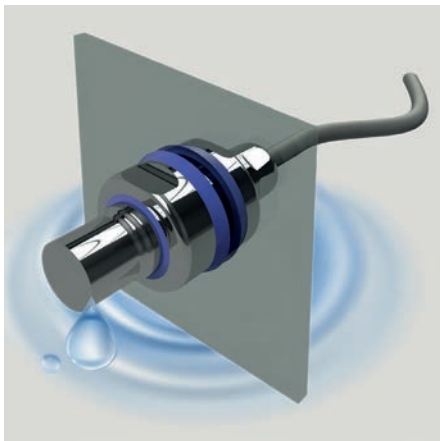
P53 EHEDG Series



Measuring Ranges up to 1500mm • Analogue Interface • Switching and Measuring Functionality • Teach In Setting

Gapless construction in stainless steel

Taking into account the high requirements of the food and pharmaceutical industries, Pil Sensoren GmbH produces ultrasonic sensors with a special hygienic design. Thanks to transition-less shapes and high-quality materials (stainless steel 1.4404), bacteria that can have a negative impact on the production process and the end product have no chance.



High-quality Ultrasonic Sensor

- Compact Design
- Dust-proof
- High resistance to chemicals
- Waterproof (IP69K)
- Steam-jet proof
- EHEDG certified
- UL certification

Hygienic mounting

- Edge-free wrench surface
- Food safe gaskets
- Easily detachable
- EHEDG certified

Perfect cable sealing

- High quality surface finish
- No adhesion of residues
- EHEDG certified
- Cleaning according to ECOLAB

Fields of Application



From C - Checking for presence to W - Winding control

The non-contact ultrasonic measuring method allows a wide range of different applications for the detection and measurement of solid, pasty and liquid substances in production areas in contact with the product in the manufacture of hygienically critical products. The compact ultrasonic sensors of the P53 EHEDG series are easy to mount and adjust. Cleaning processes according to CIP can be simplified and production downtimes shortened.



Level measurement in cheese production

Fields of application




- Checking for presence
- Collision protection of trays and containers
- Counting of individual objects
- Distance measurement of single objects
- Level measurement in mixing machines and tanks
- Portioning control of components
- Slack monitoring of packaging films
- Sorting, detection of flawed products
- Winding control on paper, metal and foil rolls



EHEDG Conformity

Updated certificates from EHEDG and Ecolab certify that the sensors and mounting brackets meet the highest product safety and reliability standards.

P53 STEEL HEAD EHEDG Program

P53 Series EHEDG	Type	Range	Output Signal
	P53-80-D18-2P-2m-EHEDG	120 .. 800mm	2 x PNP, Cable Teach In
	P53-80-D18-U-2m-EHEDG		0 .. 10V, Cable Teach In
	P53-80-D18-I-2m-EHEDG		4 .. 20mA, Cable Teach In
	P53-150-D30-PNO-2m-EHEDG	150 .. 1500mm	1 x PNP, NO, Cable Teach In
	P53-150-D30-PNC-2m-EHEDG		1 x PNP, NC, Cable Teach In
	P53-150-D30-U-2m-EHEDG		0 .. 10V, Cable Teach In
	P53-150-D30-I-2m-EHEDG		4 .. 20mA, Cable Teach In
	P53-SC-D18-5-EHEDG P53-SC-D30-10-EHEDG	Mounting screws for housings with 18mm and 30mm diameter	

Sensor competence of the group of companies

PIL Sensoren GmbH, a pioneer of ultrasonic sensor technology and Inelta Sensorsysteme GmbH & Co. KG offer a comprehensive product portfolio for displacement, position, force, pressure and inclination measurement. The sister company VYPRO, s. r. o. complements the product range in the field of sensor production and assembly services. As a medium-sized group of companies, we combine family values with the highest quality standards for our products.



Displacement Sensors (LVDT)



Force Sensors



Measuring Amplifier

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Object and filling level detection in the pharmaceutical industry

Reliable filling quantity and closure control of pharmaceutical containers using ultrasonic measuring methods

Initial situation

Detection of the filling quantities and secure closure of pharmaceutical containers needs to be reliable as they are checked at high process speeds and with a dense arrangement of sensors. Likewise, it must be possible to detect that caps have been safely fitted, regardless of their shape and colour. A universally applicable sensor that reliably monitors the filling level and closure of pharmaceutical packaging with different consistencies and packaging forms was required.

Object and filling level detection in the pharma industry

Solution

The stainless steel version of the P43 series ultrasonic sensor from PiL Sensoren GmbH with a narrow sound beam was selected for the filling level measurement. With its stainless steel housing, the ultrasonic sensor which is especially suitable for the pharmaceutical industry is resistant to bacteria and pathogens and can detect various substances without contact and in confined installation conditions. The interference echo suppression also prevents mutual interference of sensors when arranged in close proximity.



P43-M12 in stainless steel version

The series P43 ultrasonic sensors have a synchronisation option that suppresses mutual interference of sensors installed close to each other. This means that up to ten sensors can be synchronised with each other via a synchronisation cable. As an alternative to the P43 series sensors, P53 series EHEDG certified ultrasonic sensors can be used for measurements in the pharmaceutical industry.



Certified P53 EHEDG series, for highest hygiene requirements for medical and pharmaceutical use

Customer value

- A rugged stainless steel M12 housing for industrial hygiene standards without increased requirements
- High degree of protection IP65
- Teach-in input with individual switching points
- Uncomplicated installation and calibration
- Window and hysteresis function

PiL Sensoren GmbH

PiL Sensoren GmbH is a pioneer and internationally recognised specialist in ultrasonic sensor systems and has been developing and producing customer-specific ultrasound distance sensors for industrial applications for more than 30 years. We enjoy working with you to develop customised sensor solutions to meet your individual requirements using our interdisciplinary know-how and many years of experience in sensor technology.

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