# Press Release

# Ultra precise thanks to ultrasonics

Compact ultrasonic sensors from Leuze: The new sensors of the HTU200 and DMU200 series master challenging applications in the packaging and automotive industries by themselves.

*Owen, June 16, 2023 –* New, compact ultrasonic sensors from Leuze: The sensors of the HTU200 and DMU200 series are particularly suitable for applications in the packaging and automotive industries. They reliably perform difficult detection and measuring tasks by themselves: The new Leuze sensors detect objects regardless of their surface structure using a reflected acoustic pulse. They even detect glossy, transparent or dark surfaces as well as liquids or granular products problem free. With the new series, Leuze offers switching and measuring ultrasonic sensors in a variety of sizes. The devices have operating ranges of between 0.1 and 6 meters. Some models are also available with an IO-Link interface. As a result, system operators can find an appropriate solution for every requirement.

**Optimum object detection and presence control**

Leuze offers the switching sensors of the HTU200 series in a total of 20 models. These include the HTU208 compact ultrasonic sensors, which are characterized by their extremely slimline construction (M8 threaded sleeve). As a result, they can be mounted even in tight production environments. Thanks to a narrow sound cone, the sensors detect fill levels even through very small container openings. This series also features sensors in sizes M12, M18 and M30 with even longer operating ranges.

**Detecting distance precisely**

The Leuze product range includes eight models of the measuring ultrasonic distance sensors of the DMU200 series. Thanks to their analog output, the DMU218 sensors are suitable for precise distance measurement. The DMU230 sensors with the M30 construction are intended for operating ranges of up to six meters.

**Models with IO-Link interface**

All of the new Leuze ultrasonic sensors are characterized by a robust and compact metal housing. They meet the stringent requirements of IP 67 degree of protection. The sensors work reliably even in harsh conditions – for example, in environments with steam, humidity, dust or ambient light. Particularly convenient: The switching and measuring ultrasonic sensors in sizes M18 and M30 are easily connected to an automation system thanks to their IO-Link interface. Via IO-Link, their parameterization and operation are especially simple. In addition, an internal object counter and diagnostic data, such as temperature information, enable predictive maintenance.

Characters: approx. 2,628  
   
A file copy is requested.  
Interviews gladly arranged on request.

**Pictures**

Ein Bild, das Autoteile, Hartwaren, Metall, Silber enthält.

Automatisch generierte Beschreibung

Figure 1: The new ultrasonic sensors of the HTU200 and DMU200 series from Leuze are particularly suitable for applications in the packaging and automotive industries.

Ein Bild, das Wand, Design, Inneneinrichtung, Vase enthält.

Automatisch generierte Beschreibung

Figure 2: The ultrasonic sensors from Leuze detect objects regardless of their surface structure. Dusty environmental conditions do not affect the detection. HTU218 switching ultrasonic sensors are ideal for fill level monitoring, for example when filling containers with granulates or powders.

Ein Bild, das Im Haus enthält.

Automatisch generierte Beschreibung

Figure 3: The new HTU208 compact ultrasonic sensor in the form of an M8 threaded sleeve has an extremely narrow sound cone. This enables it to monitor fill levels even through very small container openings.

Ein Bild, das Diagramm enthält.

Automatisch generierte Beschreibung

Figure 4: Ultrasonic sensors of the DMU200 series measure the distance to objects using an ultrasonic cone. This is possible regardless of the object's material and surface. If a sensor with a wide sound cone is used, even punched-out holes in the carton are not a problem.

Ein Bild, das Text enthält.

Automatisch generierte Beschreibung

Figure 5: Roll diameters can be optimally monitored using ultrasonic sensors from Leuze: The new distance-measuring ultrasonic sensors of the DMU218 series send an analog output signal, which is proportional to the roll diameter, to the control. As a result, the system is able to detect in good time when the roll must be replaced.

*With curiosity and determination, the Sensor People from Leuze have been creating innovations and technological milestones in industrial automation for 60 years. They are driven by the success of their customers. Yesterday. Today. Tomorrow. The technology leader’s high-tech product range includes a number of different sensors for the field of automation technology. Among these are switching and measuring sensors, identification systems, and data transmission and image processing solutions. As a Safety Expert, Leuze is also focused on components, services and solutions for safety at work. Leuze concentrates on its core industries, in which the Sensor People have extensive, specific application know-how and many years of experience. These include intralogistics and the packaging industry, machine tools, the automotive industry as well as laboratory automation. Leuze was founded in 1963, headquartered in Owen/Teck in Southern Germany. Today there are about 1600 Sensor People around the world who are working with determination and passion for progress and transformation to make their customers successful in a constantly changing industry. Regardless of whether in the technological competence centers or in one of the 21 sales companies, supported by more than 40 international distributors.* [www.leuze.com](http://www.leuze.com)

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