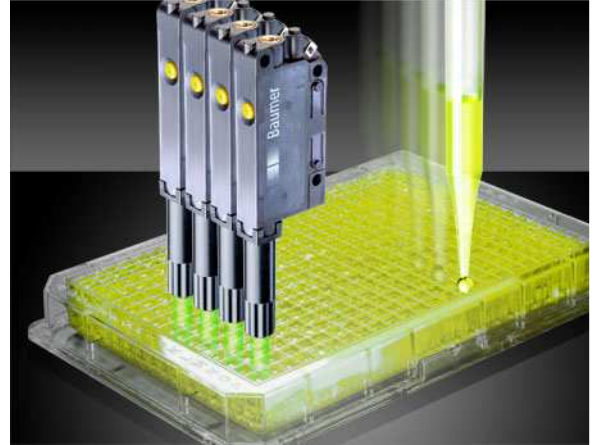


# Press Release

Department: Lab automation / Pharmaceutical packaging

## When a $\mu$ -liter makes the difference

In lab automation small containers such as microwell plates or test tubes are used in analytical processes of liquids. Since the liquids to be analyzed are often available in limited quantities only, this market has been confronted with an ever increasing demand for highly precise level measurement. Baumer is now responding to this challenge with the new Series 09 ultrasonic sensors. They are capable of measuring into wells with as little as 3.3 mm opening diameter, providing a 0.1 mm resolution. This performance converted to a type 384 microplate results in a resolution of 1.09 microliters.



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Thus, the loss of liquid can be kept within very tight limits.

Additionally, the measurement allows the detection of flaws at an early stage of the analyzing process, which keeps the general process quality at a high level. Efficiency concerning scanning speed is a further highlight of the Series 09 sensors. Thanks to a housing width of less than 9 mm, eight sensors arranged in-line are capable of scanning a type 96 microwell plate in one single cycle. The short response of as little as one millisecond allows fast scanning rates, which in turn lead to minimal process times. The benefit are a maximum of process quality at a minimum loss of time.

The range of applications for the new ultrasonic sensors is far larger than the described liquid level measurement in lab automation systems. In any application where small objects need to be detected, the Series 09 sensors demonstrate their strengths. For instance, medical capsules and tablets, which have been placed in blister packaging, can be reliably detected. Non-contact ultrasonic sensors are able to detect transparent and multicolored objects precisely, which ensures a long-term high quality in packaging processes.

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### Baumer Group

The Baumer Group is a leading international manufacturer of sensors and system solutions for factory and process automation. In 2008 the innovative family-owned company employs more than 2,000 people worldwide in 34 locations and 16 countries. The long lasting success is built on high customer focus as well as the innovative and diversified product range of the five product segments Sensor Solutions, Motion Control, Vision Technologies, Process Instrumentation, and Gluing Systems. For further information please refer to [www.baumergroup.com](http://www.baumergroup.com).