**Detecting – Levels**

DETECT LEVELS OF LIQUIDS AND SOLIDS USING SENSORS

Do you need to reliably detect levels in containers? To find the best solution for you, ask yourself the following questions: How much distance to the object do you require? Is the sensor allowed to contact the medium? How much installation space do you require? What ambient conditions do you need to account for (elevated temperatures, moisture, oil, dirt, etc.)? Following these simple steps allow you to select the right technology for you.
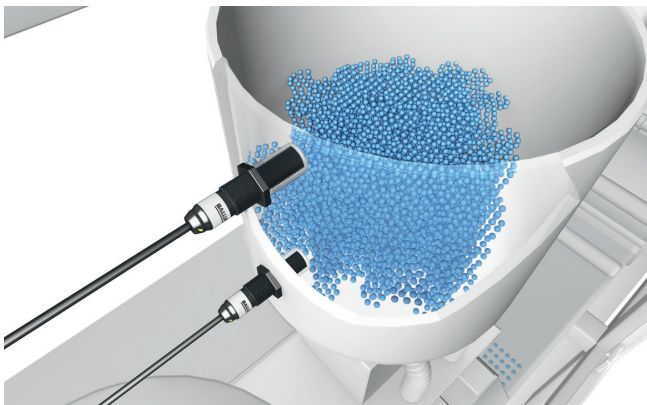
Capacitive sensors reliably detect the minimum or maximum level of granulates in a container.

Ultrasonic sensors check the fill height of tanks.

Capacitive sensors reliably detect the level of granulate in a container. To accomplish this two sensors are attached in the container offset from each other. A signal is generated when the minimum or maximum level is exceeded. This prevents over-filling or falling of the level below a prescribed value, and reduces equipment downtime. Capacitive sensors are flexibly designed and simple to install.

Ultrasonic sensors detect the precise fill height of a tank without contact. They ensure that the filling process can run continuously. Ultrasonic sensors are also reliable over greater distances and require no additional component such as reflectors.

Capacitive sensor for detecting levels – with or without medium contact – at close range

Ultrasonic sensor for detecting levels – without contact – even over longer distances

Various technologies can be used for detecting level depending on the application area:
- **Capacitive sensors** for detecting the levels of almost any material and liquid at close range (< 50 mm)
- **Ultrasonic sensors** for detecting virtually any object over greater distances (> 50 mm) using sound