Detecting – Metals

USING SENSORS TO DETECT, RECORD AND POSITION METALLIC OBJECTS

Do you need to reliably detect, record or position metallic objects? To find the best solution, please answer the following questions: What distance to the object do I require? How much space do I have available for installation? What ambient conditions do I need to account for (elevated temperatures, moisture, oil, dirt, etc.)? This is how you select the right technology.

Inductive sensors for detecting metallic objects at close range (< 50 mm) are extremely reliable and easy to install using plug-and-play.

Photoelectric sensors for detecting metallic objects and various other materials from great distances (> 50 mm) using light stand out with their long ranges.

Various technologies can be used for detecting metallic objects depending on the application area:

- **Inductive sensors** for detecting all metallic objects at close range (< 50 mm)
- **Capacitive sensors** for detecting the presence or level of almost any material and liquid at close range (< 50 mm)
- **Photoelectric sensors** in diffuse, retro-reflective or through-beam technology for detecting virtually any object over great distances (> 50 mm) using light
- **Ultrasonic sensors** for detecting virtually any object over greater distances (> 50 mm) using sound

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