Hear the invisible! Ultrasonic sensors from ifm.

www.ifm.com/gb/ug
Robust:
Robust high-grade stainless steel housing for demanding applications.

Far reaching:
Sensing range up to 1.20 m in M18 cube design and 2.20 m in M18 design.

Non-stick:
The vibrating sound transducer reduces the deposit of dirt.

Independent:
Retro-reflective operation for orientation-independent object detection.

Simple:
Setting via teach button, wire teach or IO-Link.

Ultrasonic detection
Ultrasonic sensors transmit and receive sound waves in the ultrasonic range. The object to be detected reflects the sound waves and the distance information is determined via time of flight measurement.

Wide sensing field
The wide beam allows the sensors to reliably detect even objects with holes.

No interference from soiling
The vibrating sound transducer reduces the deposit of dust. The sensors operate reliably with heavy soiling and can be used in applications in which photoelectric sensors meet their limits.

Transparent objects
Blister packs, PET bottles or transparent plastic bowls in the food industry can be reliably detected using ultrasonic sensors of the UG product family.
Object detection for long ranges and difficult surfaces

**Difficult surfaces**
As opposed to photoelectric sensors colour, transparency or the shiny surfaces do not affect detection.

**High performance**
Even in different applications – from monitoring of batch height of cardboard packaging and distance monitoring to the “empty” detection of shiny plastic labels – the new sensors reliably provide the correct analogue output.

<table>
<thead>
<tr>
<th>Housing</th>
<th>Setting via</th>
<th>Max. range [mm]</th>
<th>Output</th>
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</thead>
<tbody>
<tr>
<td>M18 plastic or stainless steel; M18 cube stainless steel</td>
<td>cable or button; IO-Link</td>
<td>300...2200</td>
<td>PNP or NPN 4...20 mA or 0…10 V</td>
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</tbody>
</table>

You can find more information such as technical data, accessories, application video or prices at

www.ifm.com/gb/ug
Overview

ifm product range:

- Position sensors
- Sensors for motion control
- Industrial imaging
- Safety technology
- Process sensors
- Industrial communication
- Identification systems
- Condition monitoring systems
- Systems for mobile machines
- Connection technology
- Accessories

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