

ifm electronic



**Hear the invisible!  
Ultrasonic sensors  
from ifm.**

Ultrasonic sensors  
[www.ifm.com/gb/ug](http://www.ifm.com/gb/ug)



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**For industrial applications**

## UG series ultrasonic sensors

### **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.*

### **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.



### **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.*

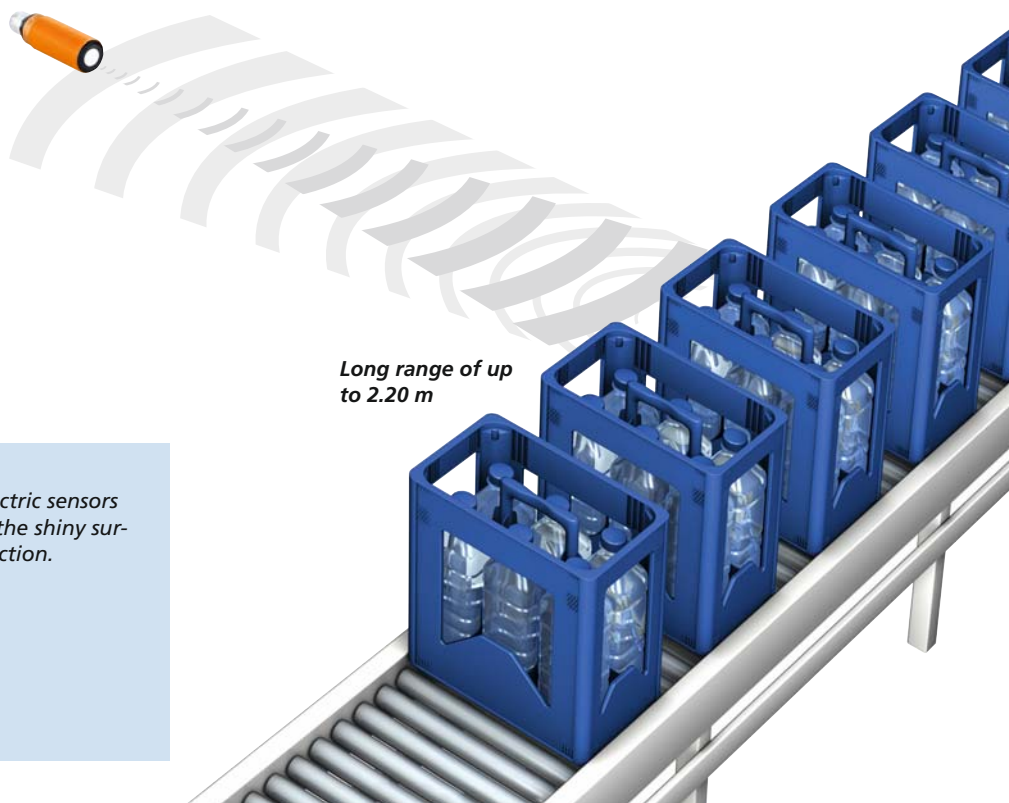


### **Transparent objects**

*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



Long range of up to 2.20 m



**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.



Housing	Setting via	Max. range [mm]	Output
M18 plastic or stainless steel; M18 cube stainless steel	cable or button; IO-Link	300...2200	PNP or NPN 4...20 mA or 0...10 V

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

[www.ifm.com/gb/ug](http://www.ifm.com/gb/ug)



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Overview  
ifm product range:



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**Industrial imaging**



**Safety technology**



**Process sensors**



**Industrial  
communication**



**Identification systems**



**Condition monitoring  
systems**



**Systems for  
mobile machines**



**Connection  
technology**



**Accessories**