

ifm electronic



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

Ultrasonic sensors
www.ifm.com/gb/ug



ifm electronic





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.



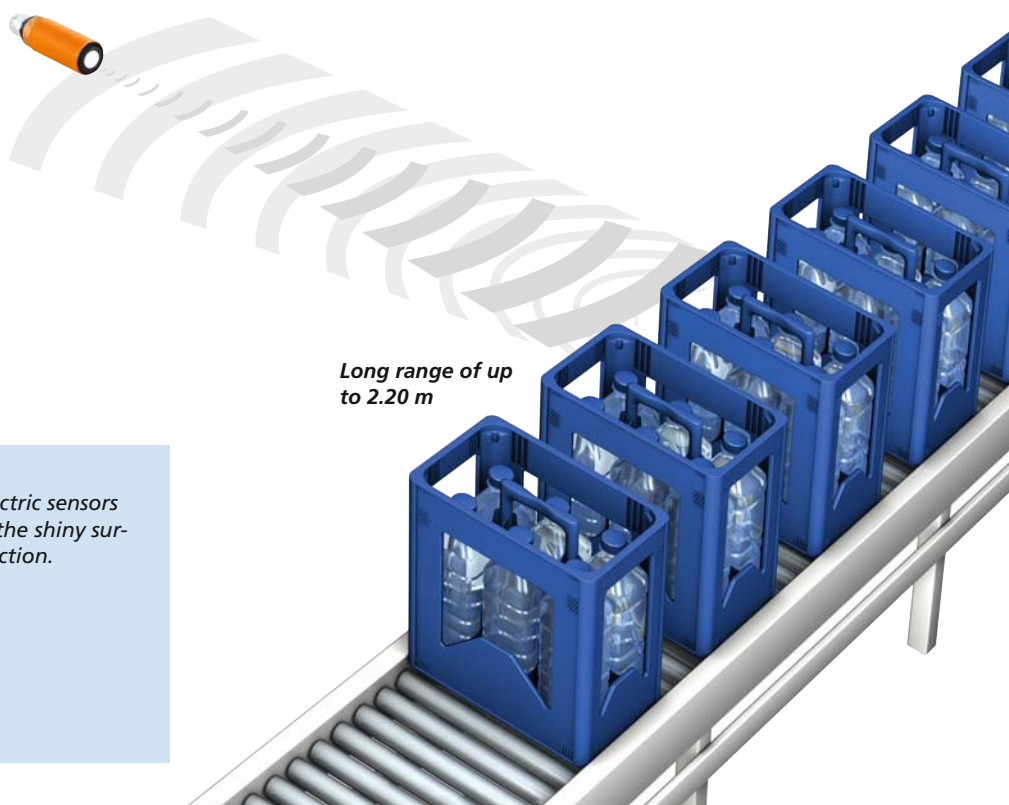
Transparent objects

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

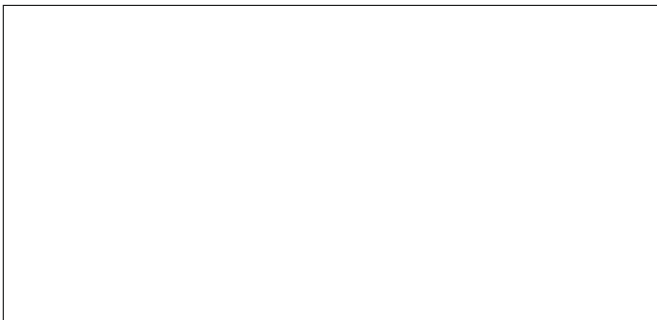


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Overview
ifm product range:



Position sensors



**Sensors for
motion control**



Industrial imaging



Safety technology



Process sensors



**Industrial
communication**



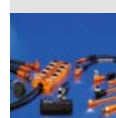
Identification systems



**Condition monitoring
systems**



**Systems for
mobile machines**



**Connection
technology**



Accessories