Ultra-inspired by agriculture
— The agricultural sector faces immense challenges when it comes to feeding people and animals worldwide. We have great respect for this task. That is why our heart also beats for agricultural machines. Thanks to microsonic ultrasonic sensors, land cultivation and livestock farming can be automated safely and reliably. With technology that was specially developed for agricultural machinery.

#ultra-inspired

by agriculture

Ultrasonic
sensors
for agricultural
machines

microsonic.de/en/agricultural-machinery

microsonic

From field to shelf: microsonic ultrasonic sensors are convincing when harvesting fields or orchards as well as in automated livestock management. In the most diverse applications. Our ultrasonic sensors help farmers sow and plant expertly. Fertilise their fields with the highest accuracy. And then harvest the crops precisely and safely. Feed the animals on the farm automatically and dose the feed correctly. Automate walkway cleaning in the stables and ensure more stable hygiene.

NEW

Rapid soil evaluation

Specially developed for agricultural machinery: The smart software in the sensors evaluates the distance from the top edge of the stock or the ground quickly and precisely, providing valuable guidance information.



Measuring the distance from vines or trellises



lcs+

For monitoring fruit and vegetable levels

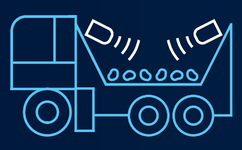


NEW

Fast, precise detection

Housing optimised for rugged use on agricultural machinery.





Monitoring the level of sugar beet in the hopper

In a compact **cuboidal housing.**

- Evaluation filters for detecting stocks, soil and trellises
- 2 ranges: 5,000 mm and 8,000 mm
- 1 push-pull switching output + IO-Link
- 2 pnp switching outputs
- 4–20 mA and 0–10 V analogue outputs

microsonic.de/en/lcs+

NEW

Special version lpc+100/ CDD/STW:

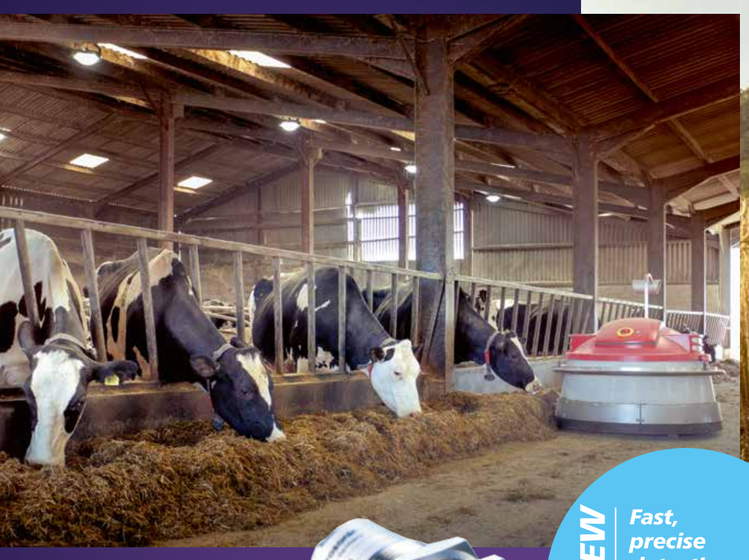
Responds only to movements and not to static objects.



ultra-robust

with MICROSONIC





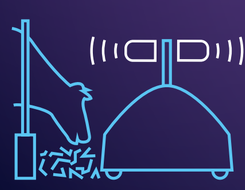


NEW

Fast, precise detection

Special software filters for detecting stocks and soil.





Measuring the distance from the creel or fence

lpc+

Used on fruit harvesting platforms to monitor the control panel for the presence of an operator

The M18 sensor with **2 switching outputs** does **2 jobs simultaneously.**

- M18 threaded sleeve
- Variant with angular head
- 4 ranges: 250 mm, 350 mm, 600 mm and 1,300 mm
- 2 push-pull switching outputs
- 4–20 mA or 0–10 V analogue output + 1 push-pull switching output
- IO-Link interface

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Subject to change without notice. Current to: 10/2023 cydos.design.de microsonic ©



mic

Ultra-robust all-rounder

The all-rounder for **rugged applications, also with cable outlet and Superseal connector.**

- Evaluation filters for detecting stocks, soil and trellises
- M30 housing and M12 circular connector in metal design for harsh conditions
- Automatic synchronisation for simultaneous operation of up to 10 sensors in a small space
- 5 ranges: 350 mm, 600 mm, 2,000 mm, 5,000 mm, 8,000 mm
- 1 pnp switching output
- 4–20 mA and 0–10 V analogue outputs

microsonic.de/en/mic

mic+

One for (almost) all: a sensor of many talents

Still the **most communicative ultrasonic sensor in the world.**

- Digital display with direct measured value output in mm, cm or %
- Quick and easy configuration with microsonic Teach-in using button T1 or T2
- 5 ranges: 350 mm, 600 mm, 2,000 mm, 5,000 mm, 8,000 mm
- 5 different output levels
- 1 or 2 pnp, npn or push-pull switching outputs
- 4–20 mA and 0–10 V analogue outputs
- IO-Link interface

microsonic.de/en/mic+

wms

Field sprayer height control



You evaluate the echo propagation time measurement.

- For use in microprocessor controllers
- Trigger input for control of the ultrasonic sensor
- Echo output for customer-provided evaluation in the controller
- 5 ranges: 350 mm, 600 mm, 2,000 mm, 5,000 mm, 8,000 mm

microsonic.de/en/wms



Measuring the distance from the stock