Height control of the field sprayer boom



For automatic boom height control for field sprayers, several ultrasonic sensors measure the distance between the sprayer boom and the crop canopy without physical contact. The field sprayer's control system uses the measured distance values to compensate for uneven ground, slopes, or varying plant heights. This keeps the spray boom at the desired working height, allowing crop protection products or fertilizers to be applied evenly across the field.

Области применения

Agricultural Machinery

Which ultrasonic sensors are suitable for automatic boom height control?
For easy integration, mic ultrasonic distance sensors with analogue outputs (4–20 mA and 0–10 V) are available. If signal processing is to take place in the customer's own control system, the wms ultrasonic distance sensors with echo output are suitable. Both sensor families feature a robust all-metal housing and are specifically designed for outdoor use on agricultural machinery or mobile machinery.

ДАТЧИКИ ДЛЯ ЭТОЙ ОБЛАСТИ ПРИМЕНЕНИЯ



mic-130/IU/M
Дальность действия: 200 - 2.000 mm
Корпус: цилиндрический M30
Выходы: 1 x аналоговый 4-20 мА, ...



mic-340/IU/M
Дальность действия: 350 - 5.000 mm
Корпус: цилиндрический M30
Выходы: 1 x аналоговый 4-20 мА, ...



wms-130/RT
Дальность действия: 200 - 2.000 mm
Корпус: цилиндрический M30
Выходы: Выход отраженного...



wms-340/RT
Дальность действия: 350 - 5.000 mm
Корпус: цилиндрический M30
Выходы: Выход отраженного...