



MOBILE AG Sensors

- Ground Distance Measurement
- Boom Height
- Plant Detection
- Row Steering



Ground & Crop Radar / Dynamic Inclination

Mobile Ag Application Solutions

Boom Heights for Sprayer

- Simultaneous measurement of ground and plant distance allows determination of crop heights
- Quick response time is key

Ground Distance Measurement with Equipment Angle

- Penetration depth for tillage equipment or seeding machines
- Sinking in of the tractor and slope recognition for anticipatory engine speed control



Boom height control



Combine header control



Distance to ground



Ground & Crop Radar / Dynamic Inclination

Mobile Ag Application Solutions

Plant Detection

- Detection of gaps in vegetation, such as grapevines and fruit trees
- Reduce use of pesticides and fertilizer, as only existing plants are sprayed.

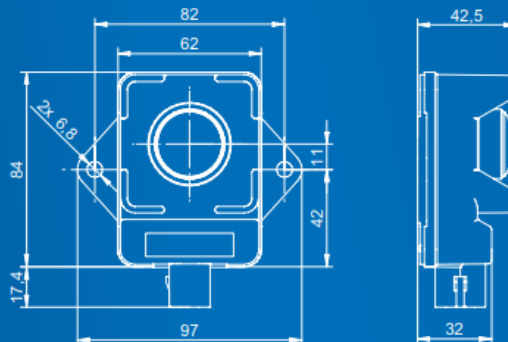
Row Steering

- Distance of multiple rows is possible with radar sensor
- Automatic row steering reduces plant damage and increases productivity
- Especially suited for high corn cultures or in **vineyard and orchards**



Distance Radar

Product overview R600V high accuracy distance radar

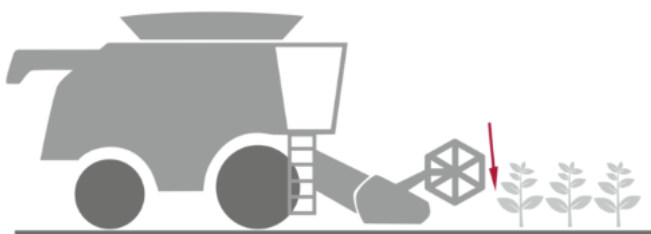


Part number	Electrical specification	Mechanical interface	Ambient conditions	Output function
R600V.DAH5-11205779*	Supply voltage: 9 V ... 32 V (12 VDC / 24 VDC vehicle power)	Automotive grade plastic flat back housing: 97 mm × 101 mm × 43 mm Matching connector: Ampseal 16 4P (776524-1)	Storage temperature: −40 °C ... +85 °C Operating temperature: −40 °C ... +70 °C	Sensing range: 300 mm ... 8500 mm CAN SAE J1939, 250 kbit/s Distance and confidence values

* Each application must be validated by the customer. Intellectual property rights may exist for some applications and / or end use cases.

Additional Applications

- Mobile working machines
- Off-highway machines
- Construction machines, Ag machines and forestry machines
- Fire Department and municipal vehicles
- Working platforms
- Cranes and lifting gear
- Automatic assembly & processing machines
- Driverless transport systems
- Robotics

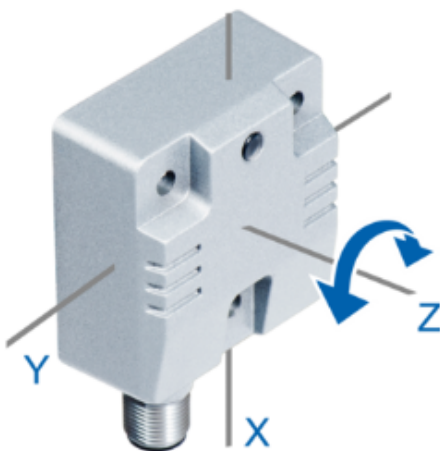


Dynamic Inclination Sensors

Product overview GIM700DR



	GIM700DR 1-dimensional	GIM700DR 2-dimensional	GIM700DR 2-dimensional
Installation	Vertical	Horizontal	Vertical
Measuring range	0 ... 360°	±90° / ±180°	±90° / ±180°
Size (housing)	77 x 62 x 27 mm		
Sensing method	MEMS (6 degrees-of-freedom) Acceleration 3-axial ±6 g Gyroscope 3-axis up to ±250° / sec		
Voltage supply / interface	8 ... 36 VDC / CANopen® 8 ... 36 VDC / SAEJ1939		
Connection	Flange connector 2 x M12, 5-pin (plug, socket)		
Resolution	0.01°		
Accuracy (typ., 25 °C)	±0.3° static ±0.5° dynamic		
Operating temperature	-40 ... +85 °C		
Protection	IP 67 / IP 68 / IP 69K		
Comfort functions	Low pass filter, configurable		



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