

Radar range sensor for UAVs




- Short-range distance measurement from 130 mm to 7,500 mm for UAVs
- Serial RS232 and CAN bus (DroneCAN) interfaces
- UAV standard JST connectors for flight controllers
- Primary application scenario for drones (UAVs—Unmanned Aerial Vehicles)
- Update rate: 25 Hz
- Optimized takeoff and landing, e.g., for VTOL and fixed-wing UAVs
- Prevention of damaging impacts during landing
- Defined low flight altitude according to the terrain profile (terrain following)
- Automated landing in case of loss of control or video signal (jamming)
- System component for autonomous positioning and navigation
- Reliable distance measurement in challenging conditions such as fog, rain, and dust
- Distance measurement on water
- No traceable light source

Item No.: 91.1050

RaDist FH

The RaDist FH is a distance sensor based on a 60 GHz pulse radar. The microwaves are focused by a dielectric lens. It was developed for UAVs to improve landing approaches or for terrain tracking. The sensor is encapsulated in a plastic housing and features a 3xJST SM04B-GHS-TB connector.

Technical Specifications:

Supply voltage	+5 to 12 V DC
Current consumption	typ. 85 mA @ 5 V DC
Power consumption	< 0.8 W
Frequency and transmit power	60.5 GHz at 11.4 dBn EIRP Contains: FCC ID: 2AQ6KA1201
Update rate	25 Hz
Antenna	Horn with dielectric lens, 8° beamwidth
Absolute accuracy	<5 mm
Measuring range	130 mm to 7,500 mm
Temperature range	Storage -40 °C to +85 °C Operating -40 °C to +70 °C
Environmental protection	IP51 per ISO 20653 (open JST sockets)
Weight	42 g
Dimensions	60 x 45 x 60 mm
	

Available from:



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