

Radar Off-Highway

Smart and reliable radar sensor for mobile machines

Robust sensor technology for object detection in tough environments



flexible in application

thanks to 2 selectable antennas and adjustable installation parameters

advanced object filters

for minimized disturbances from ground reflection

high-performance

tracking and clustering of up to 40 moving and stationary objects

TECHNICAL CHARACTERISTICS

Field of view Antenna Tx1	Horizontal	±6.0° [160 m] – ±10.0° [60 m]
	Vertical @RCS 10 m ²	–7.5° – 5.5° [160 m]
Field of view Antenna Tx2	Horizontal @RCS 10 m ²	±42.6° [29 m] – ±21.0° [78 m]
	Vertical @RCS 10 m ²	–4.0° – 11.0° [50 m]
Sensor output	Objects	40 [incl. data]
	Zones	1 – 25
Frequency	Modulation	76 GHz – 77 GHz
Measurement rate		~ 100 ms
Protection class		IP 6K9K
Com. Interface	CAN	J1939, ISO 11898 [125 – 1,000 kbit/s]
Power supply		7 – 18 V (max. 4.5 W)
Temperature		–40 to +85 °C
Weight		~ 200 g
Dimension		70 × 60 × 30 mm

- ▶ One of the smallest mid-range radar sensors with integrated control unit on the market
- ▶ Lateral and longitudinal object tracking and prioritization of objects by tracking of distance, velocity and direction
- ▶ Excellent robust performance also under rough weather conditions (snow, fog, rain, dust, illumination)
- ▶ The Radar OHW is developed according to ISO 13849
- ▶ State-of-the-art 76 – 77 GHz radar technology for highest object separation and exceptional precision up to 0.1 m