

Radar Off-Highway Premium



The next step towards a reliable automated machine

With our **Radar Off-Highway Premium** we offer a robust and premium-quality component from automotive business for high performance applications, adapted specially for the off-highway market.



Platform variant illustrated, subject to technical changes

CUSTOMER BENEFITS

Field of view covers a **wide opening angle** in horizontal for comprehensive 4D feedback of the machine surroundings.

Highly optimized **for Off-Highway applications** supported by sensor Toolbox.

Radar-based perception with **high precision** location detection for robust machine automation.

Radar technology provides **exceptional robustness** against adverse weather and environmental influences.

TECHNICAL CHARACTERISTICS

Frequency range		76 to 77 GHz
Detection range		0,21 m ... 300 m
Field of view	Horizontal	$\pm 60^\circ$
	Vertical	$\pm 12^\circ$
Key performance indicators	Range precision, separability	0,11 m ... 0.22 m , 0,41 m ... 0.83 m
	Horizontal angle precision, separability	0.1° , 1.0°
	Vertical angle precision, separability	0.2° , 1.0°
	Velocity precision, separability	0.04 m/s , 0.17 m/s
Interfaces		CAN-FD / Ethernet T1 100Mbit/s / ROS2
Power consumption		~ 12W ¹
Power supply		12V
Mechanics	Box size	110 mm x 143 mm x 30 mm
	Connector orientation	sidwards
Safety level		ISO 13849 compliant
Functions	Interface	Up to 1024 locations incl. distance, angle, relative velocity, intensity value

¹ typical value

AVAILABILITY

Current status		Sample
Start of series production		2025