

ASPER™ - RELIABLE SENSOR SOLUTIONS

for TRANSPORTATION, AGV, AGRICULTURE, AND CONSTRUCTION VEHICLES

ASPER are mmWave radar sensors built for endurance and safety through next-level perception processing, supporting the aftermarket approach

**Increased Safety | Blind Spot Monitoring | Side View Monitoring |
Human Detection and Tracking | Collision Avoidance**



**Rear and side radar
for transportation vehicles**



**Front/side radars for mining,
construction, agriculture machines**



**360° collision avoidance and
navigation for AGVs**



**Rear warning radar for
2- and 3- wheelers**

**10+ YEARS
ON THE MARKET**

**300+ SUCCESSFUL
PROJECTS**

160+ CUSTOMERS

150+ EMPLOYEES

**10+ SENSING
PATENTS**

ADVANCED OBJECT DETECTION SOLUTIONS FOR TRANSPORTATION, AGV, AND CONSTRUCTION VEHICLES

Key Features

- Prevents collision with moving/stationary objects
- Removes blind spots
- Optional people detection and tracking
- Allows aftermarket installation
- Customizable housing and interfaces
- Senses targets in the 0.05-30m range
- Detects moving and stationary objects
- Simultaneously tracks up to 20 targets
- Built-in safety self-diagnostics
- No external data processing required
- Interfaces: RS232, CAN, or custom
- Analog I/O pins for event triggers
- IP69K rating



Technical Specifications

- Power supply: 9-33 VDC, reverse polarity and over voltage-protection
- Power consumption/current: 12V, 250mA, ~3W in full duty cycle
- Frequency: 77-81GHz
- Range accuracy: <5cm
- Angle accuracy: <2 deg
- FOV: ~120 deg @+-6dB
- Elevation +-12 deg
- Target detection time of tracker <200ms
- Radar FPS: 80ms
- Operating temperature: -40 to 85°C
- Storage temperature: -55 to 105°C



WHY NOVELIC SENSOR?

- Increased asset and life protection through powerful mmWave radar sensing
- Unaffected by dirt, mud, or sand
- Works in all weather conditions (fog, rain, snow)
- Optional 180° field of view
- Easy aftermarket installation
- Advanced blind spot and side view monitoring, collision avoidance, human detection&tracking
- Works in all lighting conditions (pitch-dark, glare)
- Customizable obstacle & zone detection range
- IP69K rated
- No cleaning or maintenance required