Side Defender

Radar detection



Side object detection and collision mitigation for heavy duty vehicle operators



Key Advantage:

- Provides blind spot protection on the left side of the vehicle
- Assists in avoiding potential collisions with other vehicles while navigating
- lanes, vehicles, pedestrians, cyclists and objects when turning
- Wide field of view tracking up to 16 targets for comprehensive blind zone coverage

Features:

Flexible

- Intelligent operating modes road and motorway driving application and
- side turn assist applications for more densely populated areas
- Ability to link to CAN Bus systems

Reliable

- Measures range, speed and angle and other parameters of multiple
- stationary and moving targets simultaneously
- Built-in sensor failure alert
- Provides in-cab audible and visual alerts

Robust

- Rugged design engineered to operate in all weather conditions
- Electrically and mechanically hardened— built to last
- Maintenance free

Specs:

Measuring Performance

Range: 6.1M forward & aft of sensor (10dBsm

target)

Side-lane Range: 3M Range Accuracy: 0.3M

Azimuth FOV: 75 degrees (10dBsm target) Elevation FOV: 8 degrees (10dBsm target) Angle Accuracy: 2 @ 10 FOV, 5 @ 30°

FOV, 10 @ 75 FOV

Velocity Range 31 metres/sec Velocity Accuracy 0.2 metres/sec

Target Resolution (Targets Merge): 1.4M for static targets, approaching 0.3M for dynamic

Target Update Rate 120ms

Operating Conditions

Centre Frequency: 24.125 GHz (ISM Band)

Bandwidth: 240MHz

Regulatory: FCC Part 15.249, EU ETSI EN300-440, Narrowband 24GHz legal in most countries

Power Supply: 9 - 33VDC

Current: <0.5A

Operating Temperature: -40C to +85C

Shock: 50G

Vibration: 25G, random, all three axis

Protection Rating: IP69K

Mounting Height: 45cm – 60cm from bottom of sensor to

ground

Mounting Position: Perpendicular to ground and parallel to

vehicle body

Protocol layer: SAE J1939 Extended (CAN-bus)

Data Update: Rate 70 ms