

Aptiv 12VDC Electronically Scanning RADAR

Aptiv's multimode Electronically Scanning RADAR (ESR)

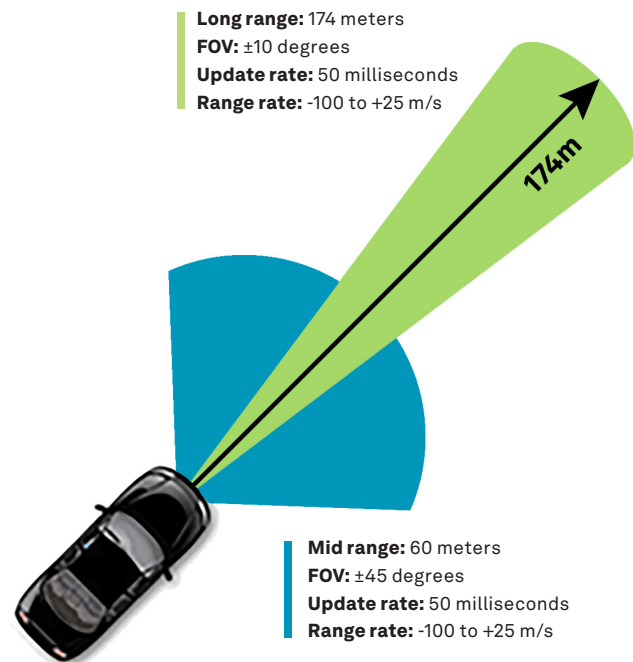
combines a wide field of view at midrange with long-range coverage to provide two measurement modes simultaneously. While earlier forward-looking radar systems used multiple beam radars with mechanical scanning or several fixed, overlapping beams to attain the view required for systems like adaptive cruise control, **Aptiv's multimode ESR** provides wide coverage at mid-range and high-resolution long-range coverage using a single radar. Wide, mid-range coverage not only allows vehicles cutting in from adjacent lanes to be detected but also identifies vehicles and pedestrians across the width of the equipped vehicle. Long-range coverage provides accurate range and speed data with powerful object discrimination that can identify up to 64 targets in the vehicle's path.

Key features:

- 12VDC for Commercial Applications
- Integrated 3-Axes Accelerometer
- Multi-mode, multi-application capability
- Simultaneous long- and mid-range functionality
- Solid-state Technology, no moving parts
- Extremely reliable Class-leading performance and durability
- Resistant to vibration and extremely robust
- Dual-mode classification enhances object reliability
- Simultaneous Transmit and Receive Pulse Doppler
- Compact packaging
- Complete radar module, including electronics, measures just 173.7 × 90.2 × 49.2 millimeters including mounting features
- Produced using processes proven in high-volume manufacture of engine

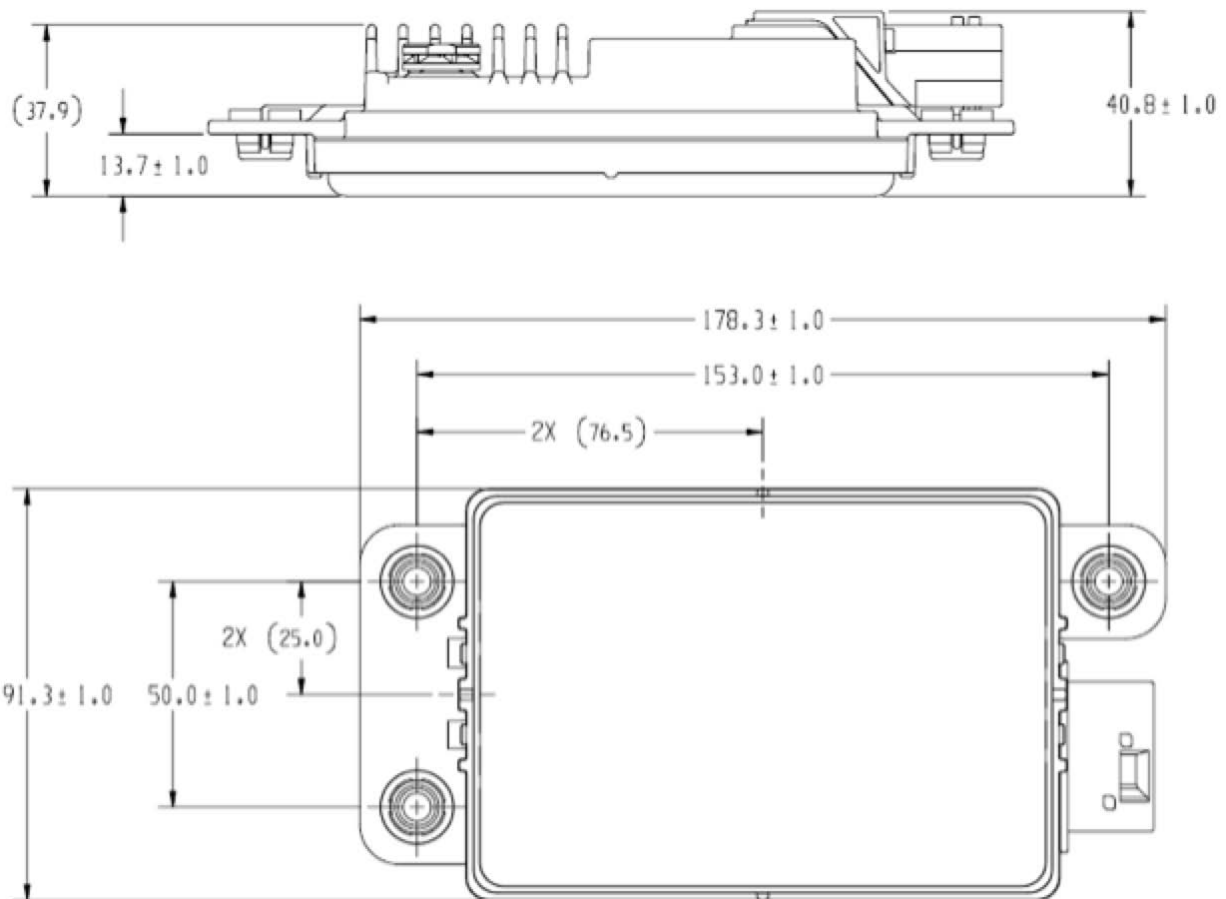


Aptiv's technologically advanced ESR uses proven solid-state technology plus class-leading performance, packaging and durability to offer customers game-changing forward radar detection. The quality of data provided by Aptiv's system enables powerful functionality including adaptive cruise control, forward collision warning, brake support and headway alert.



Electronically Scanning RADAR enables the following features:

- Adaptive Cruise Control with Stop & Go
- Enhances driver convenience
- Reduces driver workload
- Forward Collision Warning
- Helps reduce the potential for an accident and injury
- Helps reduce the potential for property damage
- Brake Support
- Helps reduce the potential for an accident and injury
- Helps reduce the potential for property damage
- Alerts driver when the preset time-gap to vehicle ahead is violated



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