

# Aptiv Electronically Scanning RADAR

## Aptiv's multimode Electronically Scanning RADAR (ESR)

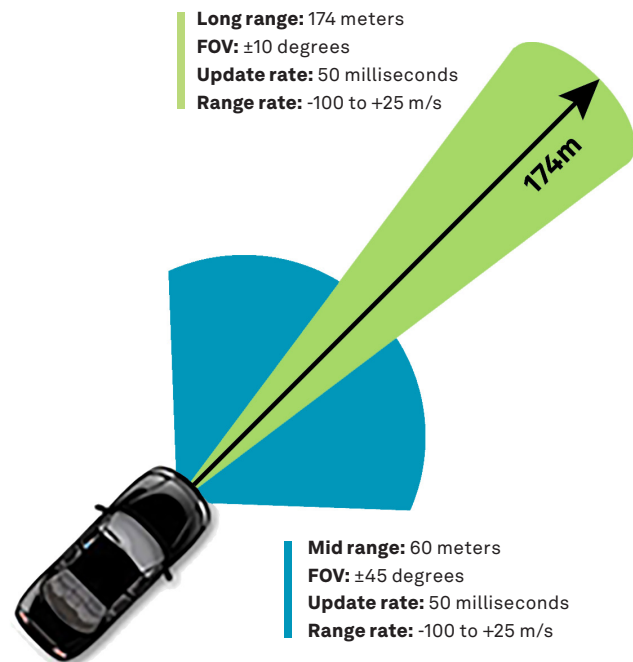
combines a wide field of view at midrange with long-range coverage to provide two measurement modes simultaneously. While earlier forward-looking radar systems used multiple beam radars with mechanical scanning or several fixed, overlapping beams to attain the view required for systems like adaptive 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.



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.

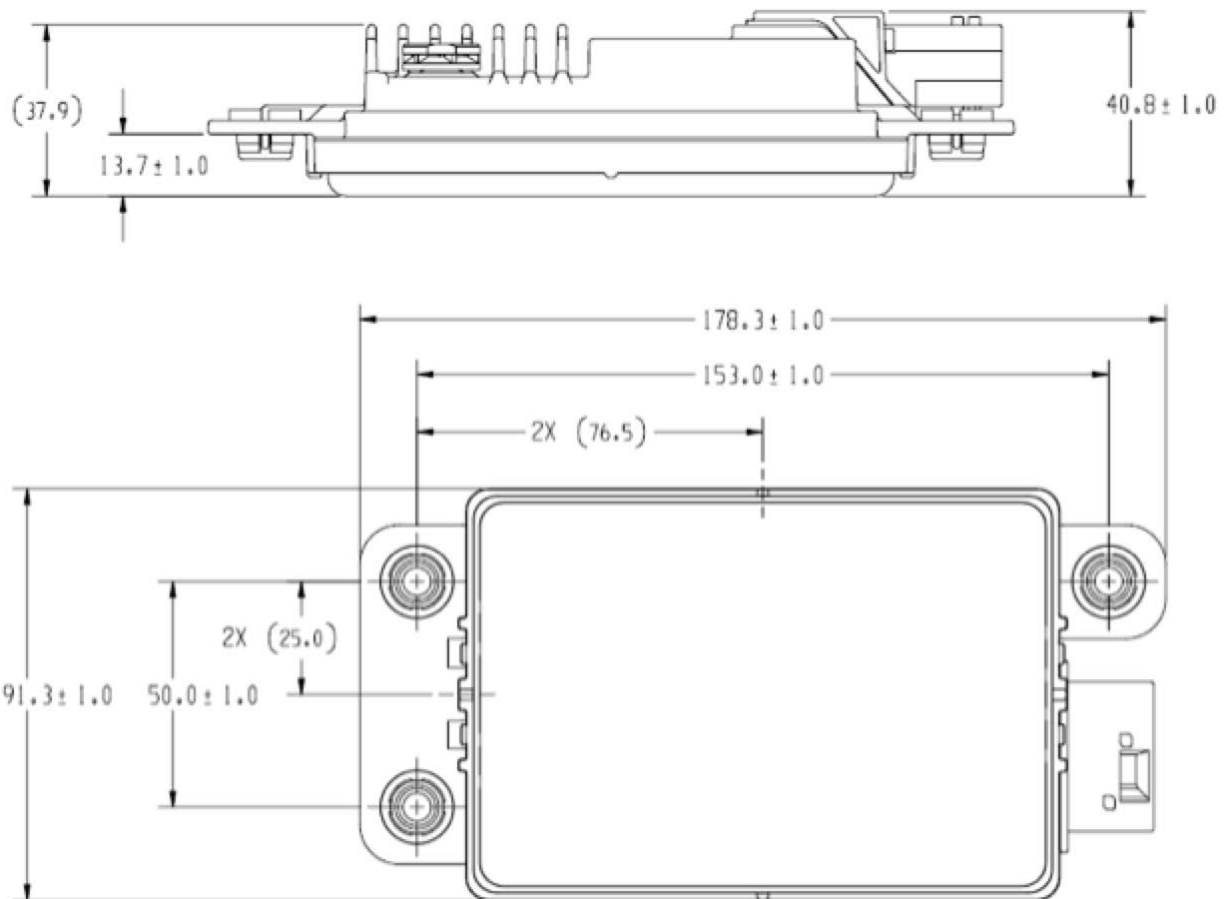
## Key features:

- 24VDC 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 x 90.2 x 49.2 millimeters including mounting features
- Produced using processes proven in high-volume manufacture of engine



## 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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