

Radar-Based Parking Occupancy Sensor

Abstract

5 This invention relates to a system for contactless detection and provision on an
occupancy status parking lots in at least one vehicle park. A system comprises a frontend
sensor unit having a number of radar modules and a detection board. Each of the radar
modules comprises a transmitter configured to transmits L consecutive frequency
modulated chirps and at least 3 receivers configured to collect the return chirps. The
10 detection board is adapted to control and receive data from each of the radar modules and
executing processes to analyse the data received from the radar modules to determine
occupancy status of parking lots.

15 Figure 2 to accompany the abstract