Sensor Technologies

Three different types of sensors are needed for the four collision countermeasure systems to be discussed in this report. They are friction/ice detectors, vehicle detectors, and speed/acceleration detectors. Table-B.1 contains the different technologies that can be used for the different collision countermeasure systems (in this research report, friction/ice detection systems are not explored in depth).

I. FRICTION/ICE DETECTION AND WARNING SYSTEMS

II. COOPERATIVE WARNING OF THE PRESENCE OF ONCOMING VEHICLES ON CURVES

III. DRIVER WARNING ON A MINOR ROAD IN THE PRESENCE OF VEHICLES ON A MAJOR ROAD

IV. DRIVER WARNING ON A MAJOR ROAD IN THE PRESENCE OF VEHICLES ON A MINOR ROAD

V. APPROACHING VEHICLE WARNING FOR DRIVERS MAKING A LEFT-HAND TURN AND WARNING OF VEHICLES TURNING LEFT AHEAD