Study of Implementation and Test for Vehicles with Duplex Wheel Cylinder Brake System

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ABSTRACT

In recent years, the world depot has generated vehicles (including cars, buses, cars and freight), in order to meet the requirements of the environment, enhanced safety and comfort of the continued increase in the development of all kinds of security systems. Reduce the amount of car lines, not only reduce interference, but also to share about the vehicle. The depot do a small LAN (local area network) controller has switched to use the CAN (Controller Area Network) architecture for connecting sensors and actuators.In this study, completed a double-brake system and integrated system of monitoring a group of two functional modules. First, the device has been programmed Flowcode, this circuit can be provided in each node of the CAN. Based on the SAE J1939 protocol, each node can make a CAN ID (Identification), each node sends the next control of the vehicle traffic information to the ECU of the sensor information can be monitored by LabVIEW. You intend to support measures and the corresponding security node failure. In the vehicles unforeseen circumstances, you would suggest that when the driver's instrument display real-time. The ECU used immediately to support the safety of the vehicle. Development of an integrated system, the platform to simulate the actual vehicle in this study, the possibility of test nodes, when you view through CANKing signaling. In the experiment, the auto duplex brakes and monitoring has been successfully developed.

Keywords : Flowcode、LabVIEW

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