

Abstract Of The Disclosure

A compact current detection unit which detects a failure in a relay terminal and provides a relay terminal array which has a failure detection function and is compact and easy to assemble. The current detection unit includes two symmetrical bobbins; a core located within compartments of bobbins and has an air gap in it; holes in the bobbins which correspond to air gap in the core; coil wound on the compartments; and a circuit board fastened to the side of one of the bobbins on which a Hall element is mounted. A Hall element is inserted through and fixed in position by the holes in the bobbins and the air gap in the core. If a current is flowing through the coil, the lines of magnetic force generated in the core are detected by the Hall element located in the air gap. If no current is flowing, no lines of force are detected.

This Sheet Has Been Replaced

