

EDDY CURRENT SENSOR

ABSTRACT

The eddy current sensor for measuring the film thickness of a conductive film formed on a substrate includes a core made of a magnetic material that has a base portion, and outer legs provided to the base portion at both end portions in a first direction of the base portion respectively, an excitation coil that is arranged on the core and forms an eddy current in the conductive film, and a detection coil that is arranged on the core and detects the eddy current formed in the conductive film. The length of the base portion in the first direction is not less than the length of the base portion in a second direction that is substantially orthogonal to the first direction.

Representative drawing: Fig. 4