

ABSTRACT OF THE DISCLOSURE
ACCELERATION SENSOR

An acceleration sensor includes a piezoelectric ceramic element (1) for detecting acceleration, a signal processing circuit (2) for processing an output signal received from
5 the piezoelectric ceramic element (1), and a self-diagnosing circuit (20) which is connected in series with the piezoelectric ceramic element (1). The self-diagnosing circuit (20) is provided with a PNP transistor having an emitter (E) which is connected to a source voltage V_{cc} , a
10 base which is supplied with an externally inputted timing pulse signal, and a collector for outputting a failure diagnosing signal which is synchronized with the timing pulse signal. Further, a self-diagnosing capacitor (25) is provided between the collector of the PNP transistor (23)
15 and the piezoelectric ceramic element (1).
(fig.1)

