

Machining - Metalworking

Direct detection of equipment movement

Detection of slight stroke changes (about 1 mm) in NC rotary tables and brake mechanisms, with easy setup

Product

Discrete sensor Adjustable Proximity Sensor

Process/ Equipment Machining center, NC rotary table (rotary & DD motor)

Model H3C

Current Situation

- The rotary table is rotated to change the workpiece's orientation. The brake is used to stop and hold (clamp) the table and the next machining process begins.
- It is difficult for conventional proximity switches to identify the Clamped and Unclamped states, so hydraulic or air pressure signals are used as triggers to operate the piston, combined with a timer to take the travel time of the piston into consideration, in order to identify the Clamped state.

Current Problems

- To identify the Clamped state of the brake, pressure signal detection is combined with a timer for estimated detection, which lengthens the cycle time and decreases productivity.
- The piston stroke is very short, so direct detection is difficult for conventional proximity switches.





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Solutions



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