

Machining - Metalworking

Direct detection of alteration in equipment

Easy setup for reliable detection of slight (3–4 mm) stroke changes in turret lathes



Product

Discrete sensor Adjustable Proximity Sensor

Process/ Equipment

CNC lathe

Model H3C

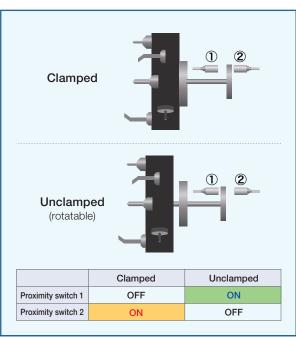
Current Situation

- When a tool is changed, the state of the turret changes from Clamped to Unclamped, the turret is rotated to use the desired tool, and the state returns to Clamped.
- To identify whether the turret is Clamped or Unclamped, two proximity switches are used to detect the dog position in combination with hydraulic signals and timer conditions.

Current Problems

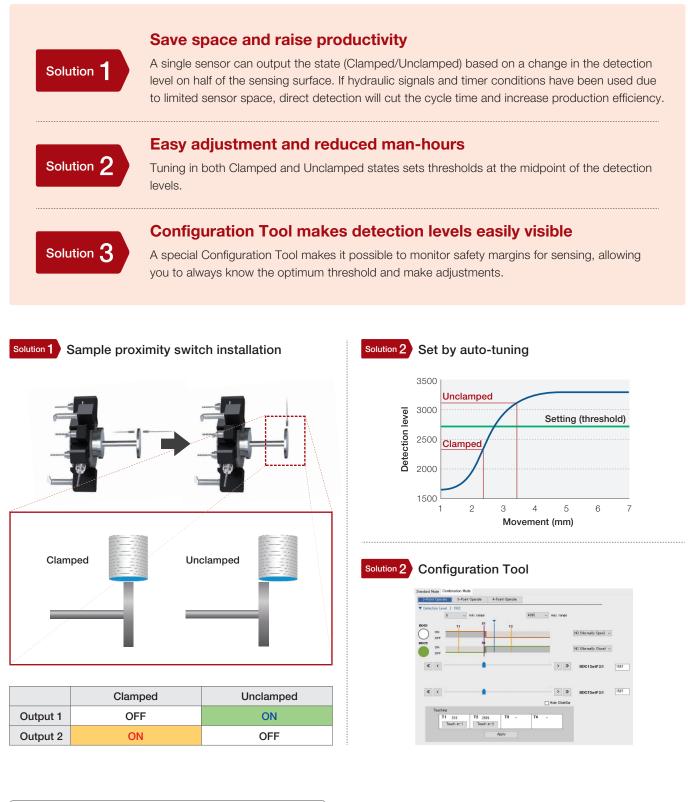
- When two proximity switches are used for detection, adjustment is very difficult because the stroke is short (3–4 mm). In addition, the switches face each other, so finding space to install them and route the cables is difficult.
- Using hydraulic signals and a timer for detection lengthens the cycle time, decreasing production efficiency.





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Solutions



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