

Machining - Metalworking

Proximity Switches

**Reduce man-hours** 

Four-area sensing by 2-output teaching

# by easy adjustment and output visualization



Machining Center

Product

Discrete sensor Adjustable Proximity Sensor

Model H3C

## **Current Situation**

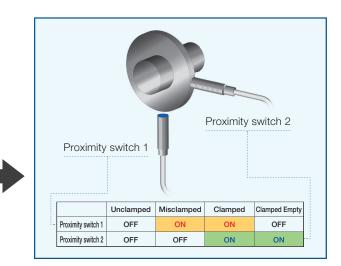
- After a tool change, the tool's position must be detected to see if it is properly clamped.
- 4 positions must be distinguished: Unclamped, Misclamped, Clamped, and Clamped Empty.
- To detect 4 positions, the ON/OFF outputs of 2 proximity switches are used.

## **Current Problems**

Process/

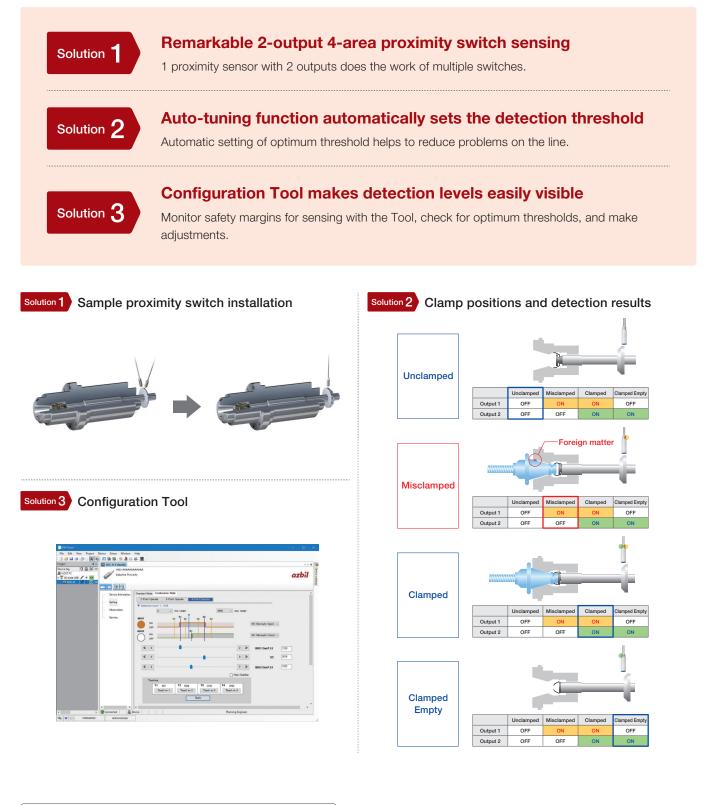
Equipment

- Two proximity switches are installed with an offset, and adjusting the on and off positions for Unclamped, Misclamped, Clamped, and Clamped Empty takes a great deal of time.
- Workers vary in how they do the work, and we don't know how much safety margin we have for the sensing settings, so we are dependent on skilled workers.
- Switch positions must be adjusted very precisely, so onsite readjustment may be required.
- Proximity switches are installed inside the equipment, so they are difficult to access.



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## **Solutions**



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