

## Practical case: Simple security code validation

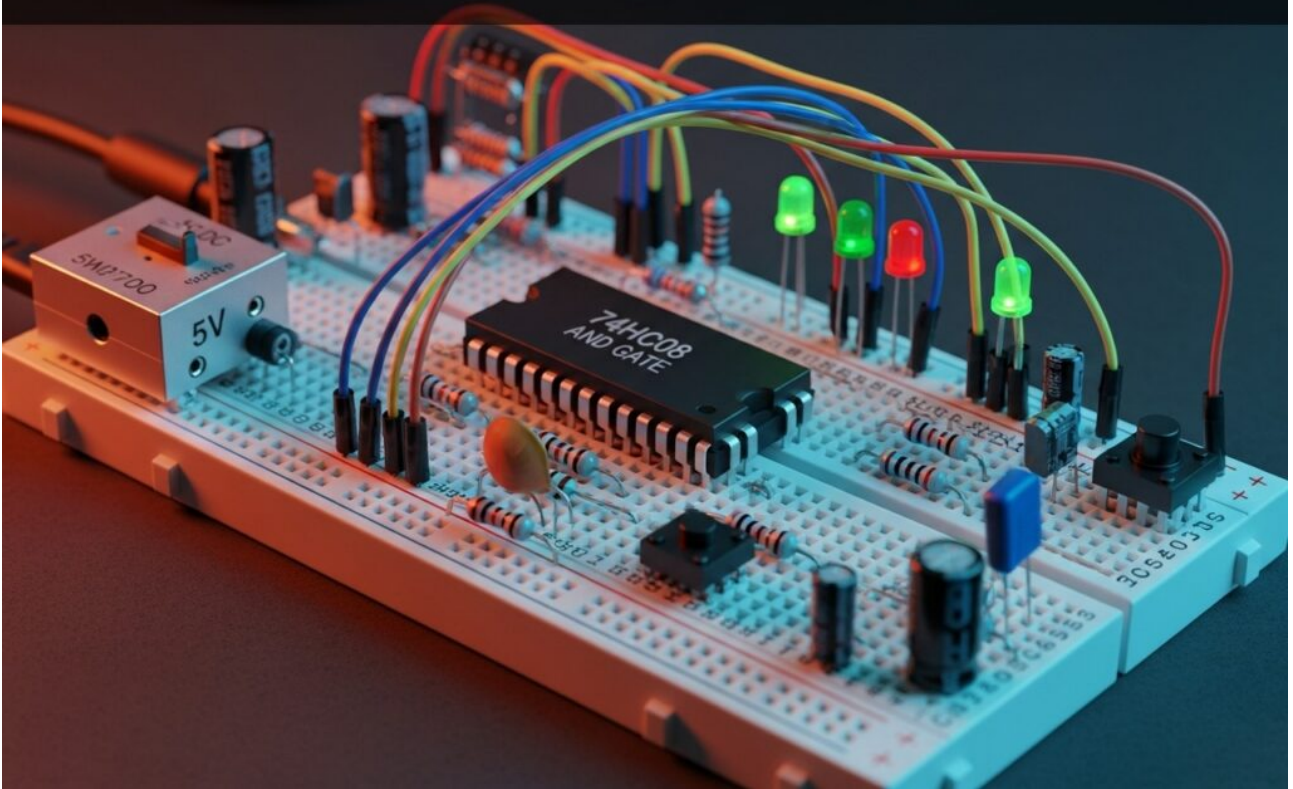


Master Digital Electronics by building a dual-switch security lock. Use a 74HC08 AND gate to trigger a solenoid only when two signals activate simultaneously.

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## Practical case: Conveyor belt start system

# Conveyor belt start system

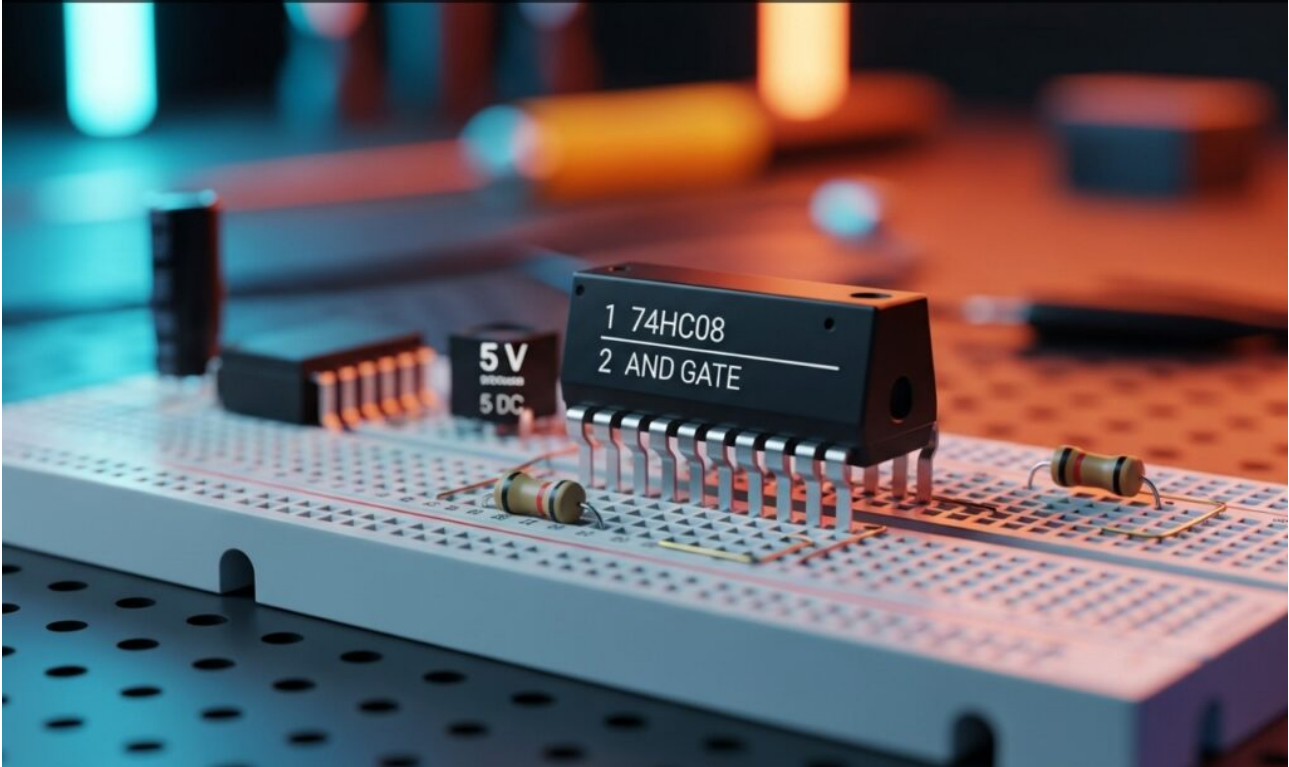


Master Digital Electronics by building a safety interlock circuit. Use a 74HC08 AND gate to activate a conveyor motor only when specific sensor signals align.

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## Practical case: Temperature and Pressure Monitoring

# Temperature and Pressure Monitoring

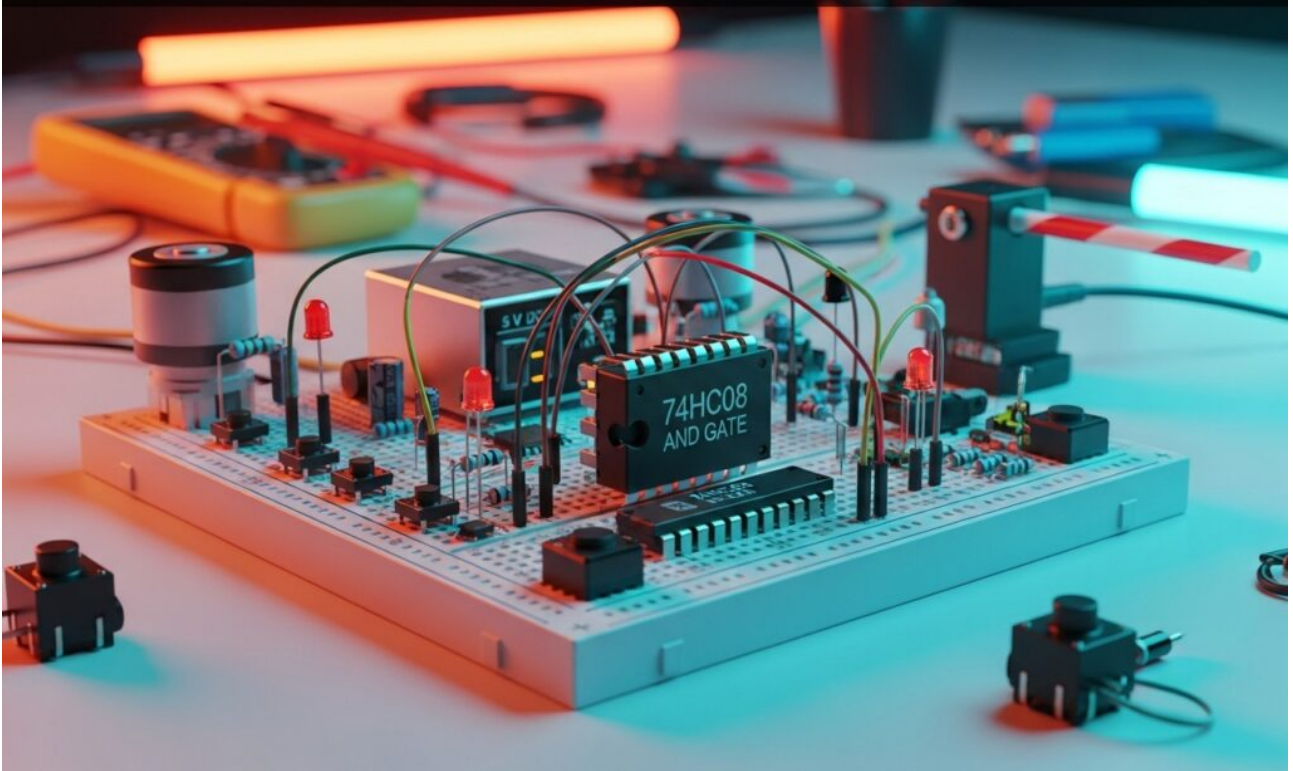


Master Digital Electronics by building an industrial safety circuit. Use an AND gate to trigger an alarm only when both temperature and pressure sensors spike.

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## **Practical case: Vehicle access control with barrier**

# Vehicle access control with barrier



Master Digital Electronics by building a safety barrier circuit. Use a 74HC08 AND gate to trigger a 5V LED signal only when dual inputs activate simultaneously.