

Limit Switches with Roller Levers

DT Workshop Equipment Reference — D&T / STEM resource for school workshops | Sensors & Modules

Limit switches detect the physical end of travel or presence of a part with a roller lever that actuates a snap-action contact. They stop machines at the limits of motion and sense position in automation and CNC machines.

Key Features

- Roller lever actuators
- Snap-action SPDT contacts
- 12-24 V or mains contact ratings
- Sealed housings for dust
- Mounting holes and adjustable levers

Typical Uses in the Workshop

- End-of-travel stops on machines
- Home and zeroing sensors on CNC
- Detect part presence in sorting rigs
- Interlock guards and doors

Safe Operation

1. Mount the switch at the travel limit
2. Adjust the lever to operate at the point
3. Wire NO or NC as needed with pull-up
4. Test the trip at low speed
5. Confirm the machine stops correctly

SAFETY NOTES

- Use limit switches as sensors, not as the only safety stop
- Check the lever is not overloaded
- Wire within the rated voltage
- Mount securely so vibration does not trip
- Inspect contacts for wear

Maintenance & Consumables

- Clean the lever and housing
- Check the contacts for pitting
- Verify the actuator spring works
- Tighten the mounting
- Replace worn switches

Specification & Buying Notes

Sealed roller-lever limit switches with 12-24 V contacts suit school machines and rigs. Quality switches click positively for thousands of cycles.