

Terminal Blocks (Screw-type PCB mount)

DT Workshop Equipment Reference — D&T / STEM resource for school workshops | Electronics & Prototyping

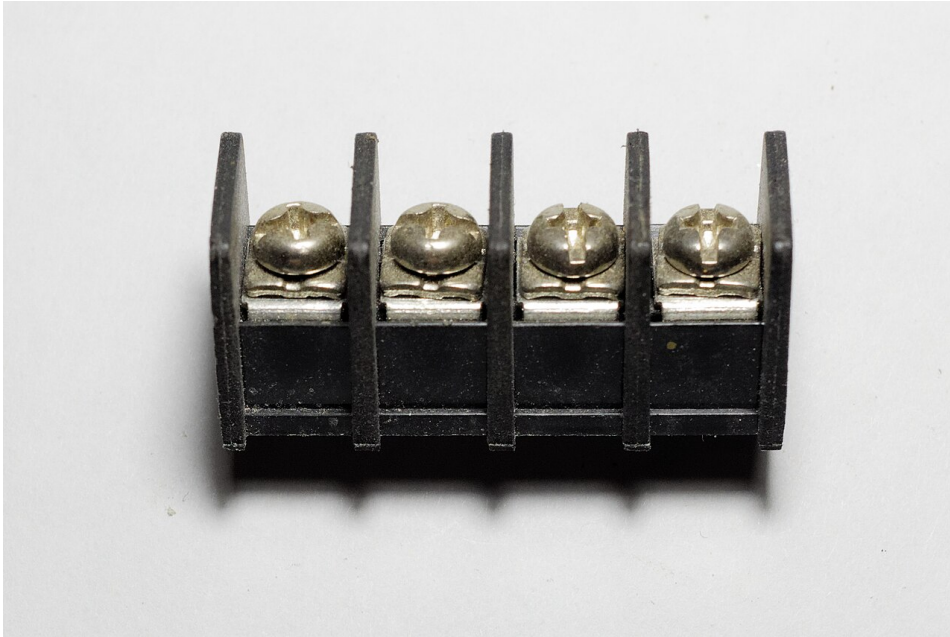


Photo: Retired electrician — CC0 — via Wikimedia Commons (Screw-type_terminal_block,_10mm_spacing_01.jpg)

Screw terminal blocks mount on PCBs and project boards to connect external wires securely without soldering, for power input, sensor leads, motor wires and field wiring. They make prototypes serviceable and wiring changes fast.

Key Features

- Pitches 3.5, 5.0, 5.08 mm
- 2-12 positions
- Screw clamps with contacts
- Vertical and horizontal formats
- Current ratings to 15 A

Typical Uses in the Workshop

- Connect power supplies to boards
- Terminate sensor and motor leads
- Join wires without soldering
- Field and panel connections

Safe Operation

1. Solder the block to the board first
2. Strip the wire to the right length
3. Insert into the clamp and tighten
4. Check the grip with a gentle pull
5. Use ferrules for stranded wire

SAFETY NOTES

- Match the block rating to the current
- Do not overtighten and crush wires
- Keep terminal screws tight after use
- Check polarity marking
- Keep blocks away from water

Maintenance & Consumables

- Retighten loose terminals
- Clean oxidation from contacts
- Replace broken blocks
- Keep the screwdrivers with the kit
- Check the connection before power

Specification & Buying Notes

5.0 mm pitch screw blocks in strips and 2-4 position units cover prototypes. Buy quality brass contacts; plated steel terminals corrode and loosen.