

Waveshare ESP32-S3 8DI-8DO controller (Tier-0). 8 digital INPUTS (physical wires) ← left. 8 digital OUTPUTS (triggers) → right.
 DO direct = drives a small signal · DO→relay = triggers a Bosch relay (it switches the load) · DO→harness = triggers the load's own relay. Trigger wires = Cat5 / 22 AWG (no fuse).

