



MX-400 Panel Sensor

8-port managed Ethernet switch · DIN-rail · PoE+

Category **Networking**

Model **NL-8**

The NL-8 is an eight-port managed switch for control networks, with PoE+ on four ports and redundant 24 V inputs. This guide walks the common faults (no link, no PoE, slow traffic and loss of management) to a remedy.

NOTICE

Work live with care

The switch is usually diagnosed powered. Treat the 24 V inputs and PoE ports as live, and isolate before re-terminating any cable.

FIRST CHECKS

1. Confirm the power LEDs: the switch needs at least one healthy 24 V input.
2. Check the port LED: dark means physical layer, amber means link-only.
3. Swap the suspect patch lead for a known-good one and re-test.
4. Move the device to a spare port to rule the port in or out.
5. Console in over the mini-USB and check the port, VLAN and PoE status.

SYMPTOM → CAUSE → REMEDY

TRoubleshooting

SYMPTOM	LIKELY CAUSE	REMEDY
Port LED dark, no link	Cable, SFP or far-end port	Swap the patch lead; test the run; try another port
Link up but no traffic	VLAN or speed mismatch	Check the port VLAN and force-match the speed/duplex
PoE device won't power	Budget exceeded or class	Check the 120 W budget; confirm the device is 802.3at
Intermittent drops	Marginal cable or EMI	Re-terminate; separate from VSD cabling; check earthing
No web / SNMP access	Wrong IP or blocked VLAN	Console in; confirm the mgmt VLAN and IP; reset if needed
Both power LEDs off	Supply or fuse	Check both 24 V inputs and the inline fuse

WHERE TO START

Both power LEDs off → Check 24 V inputs and the inline fuse

Port LED dark → Swap the lead, then try another port

Link up but no traffic → Check VLAN and speed/duplex

No management access → Console in; confirm mgmt VLAN and IP