

Nilight 90521S / 90522S / 90523S

Official web specification and wiring archive



90521S — 2 gang

90522S — 3 gang

90523S — 4 gang

Brand / models	Nilight 90521S, 90522S and 90523S
Product family	Pre-wired aluminum 3-pin blue-LED rocker switch panels
Official page state	Retrieved 22 July 2026
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Nilight does not provide these three product pages as a downloadable PDF. This file is a clean archival rendering of the specifications, dimensional graphics and wiring diagrams published on Nilight's official website. It must not be represented as an original manufacturer-issued PDF.

1. Model family and official specifications

Model	Panel	UPC	Official IP rating	Nilight product page
90521S	2 gang	840323917568	IP65	Nilight product page
90522S	3 gang	840323917575	IP67	Nilight product page
90523S	4 gang	840323917582	IP67	Nilight product page

Operating style: SPST, normally-open ON/OFF rocker switch; three blade terminals per switch; panel mount; pre-wired jumpers.

Electrical rating shown in Nilight's official graphics: 20 A at 12 V DC and 10 A at 24 V DC. The product pages list 20 A and describe operation at both 12 V and 24 V DC.

Construction: silver aluminum panel, brass contacts, ABS/PC switch bodies, blue PC retaining buckles, blue status LEDs and removable crimped jumper leads.

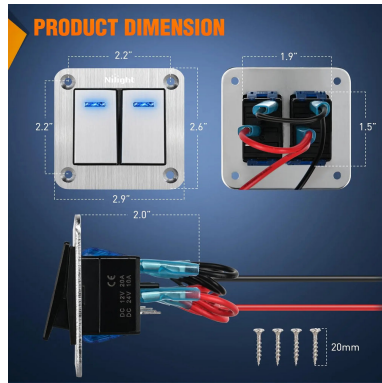
Claimed electrical life: more than 10,000 ON/OFF operations. Package description includes the pre-wired panel, four screws, DIY labels and a wiring diagram.

Cross-brand analogue scope

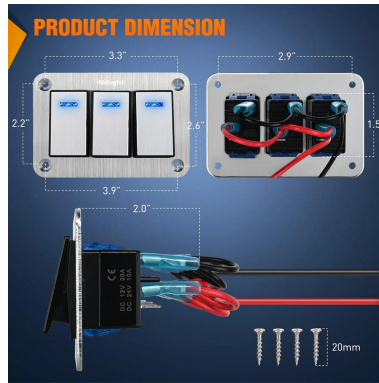
The archived Nilight documents identify Nilight-branded models. An unbranded panel may use the same enclosure and wiring architecture without having Nilight certification, ingress protection or quality control. Verify the marking and supplied wiring of the actual panel before relying on any brand-specific claim.

Nilight's structured product fields and its dimensional graphics are not fully consistent: for example, the 90521S and 90523S page-level dimension fields do not match the dedicated dimension images. Use the dimension images on the next page for installation planning and confirm the actual cut-out on the physical panel.

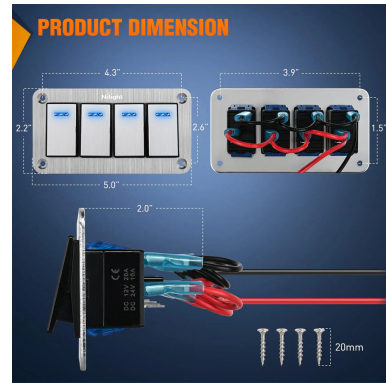
2. Official dimension graphics



90521S — official Nilight dimension graphic



90522S — official Nilight dimension graphic

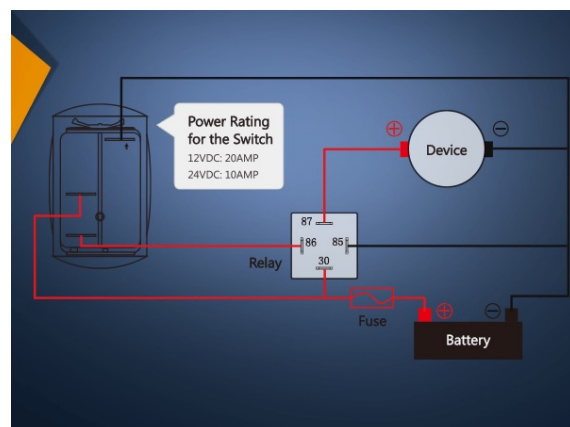
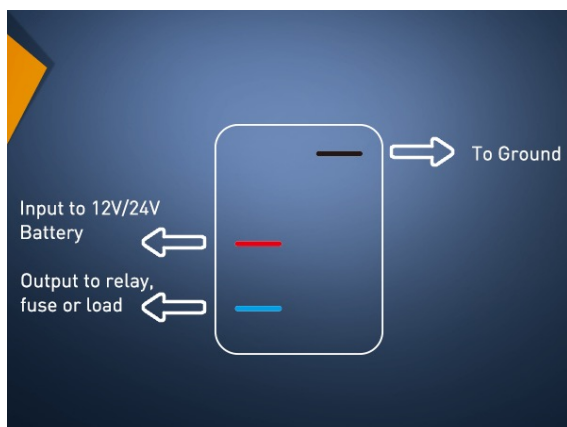
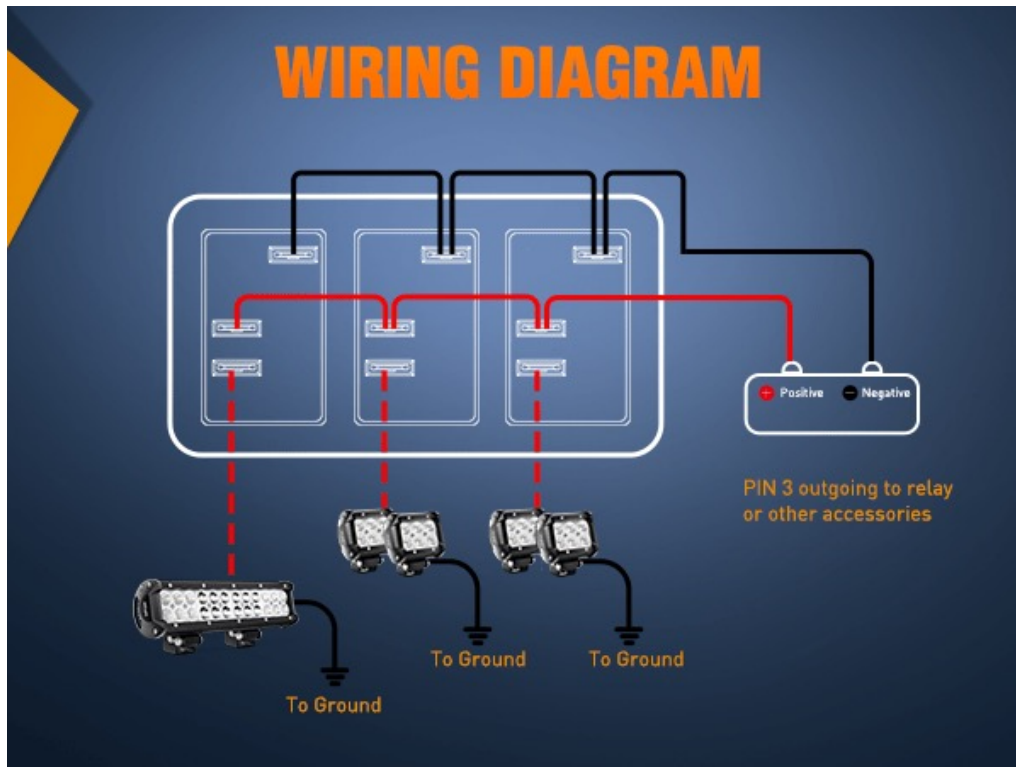


90523S — official Nilight dimension graphic

Dimensions in the official graphics are in inches. Each graphic shows the front panel, rear clearance, mounting-hole spacing and approximately 2.0 in installation depth. Measure the supplied part and leave additional clearance for the crimp connectors, cable bend radius and service access.

Do not use the panel itself as a drilling template while it is connected. Disconnect power, protect wiring behind the mounting surface, deburr the cut-out and prevent metal swarf from reaching any electrical equipment.

3. Shared Nilight wiring topology



Nilight publishes the same generic three-channel wiring graphics on all three official model pages. Apply the repeated channel topology only to the number of switches physically installed: a shared positive feed, one LED ground and one switched output per rocker. The relay example uses the switch as a control input rather than carrying the full accessory current directly.

The official diagrams are conceptual. Confirm the terminal marking on the actual switch. Protect the supply with a correctly sized fuse or breaker, select wire by load current and installation conditions, and use a relay when the load or inrush current exceeds the safe capacity of the switch or supplied jumper wiring.

4. Installation and safety notes

1. Disconnect the battery or upstream power source before cutting, mounting or changing any connection.
2. Use one correctly sized branch fuse or breaker for each protected circuit unless the design is otherwise documented. The switch rating is not a substitute for cable protection.
3. Do not assume the short factory jumpers are suitable for a continuous 20 A load. Confirm conductor size, insulation temperature rating, crimp quality and voltage drop on the actual panel.
4. For motors, compressors, pumps, heaters, large lamps and other inductive or high-inrush loads, use a suitably rated relay or contactor and protect both control and load circuits.
5. Keep terminals dry and mechanically supported. The IP rating listed by Nilight applies to the Nilight model and does not establish an enclosure rating for an unbranded analogue or for the rear wiring cavity.
6. After installation, verify polarity, channel function, fuse ratings, terminal temperature and voltage drop under maximum expected load.

Archive provenance

90521S: <https://www.nilight.com/products/2gang-aluminum-3pin-on-off-blue-led-rocker-switch-panel>

90522S: <https://www.nilight.com/products/3gang-aluminum-3pin-on-off-blue-led-rocker-switch-panel>

90523S: <https://www.nilight.com/products/4gang-aluminum-3pin-on-off-blue-led-rocker-switch-panel>

Product photographs, dimension graphics and wiring diagrams in this archive were retrieved from the three official Nilight product pages or their official Shopify-hosted assets on 22 July 2026. This archive adds layout, source metadata, applicability limits and safety notes; it does not claim to be an original Nilight PDF or a Nilight document for any unbranded product.