

LIGHT SOLUTIONS HILUX LED DRIVER · POWERED BY SHELLY

Model 80-870-SH-120W

Constant voltage LED driver with Wi-Fi and Bluetooth · Push-dim input



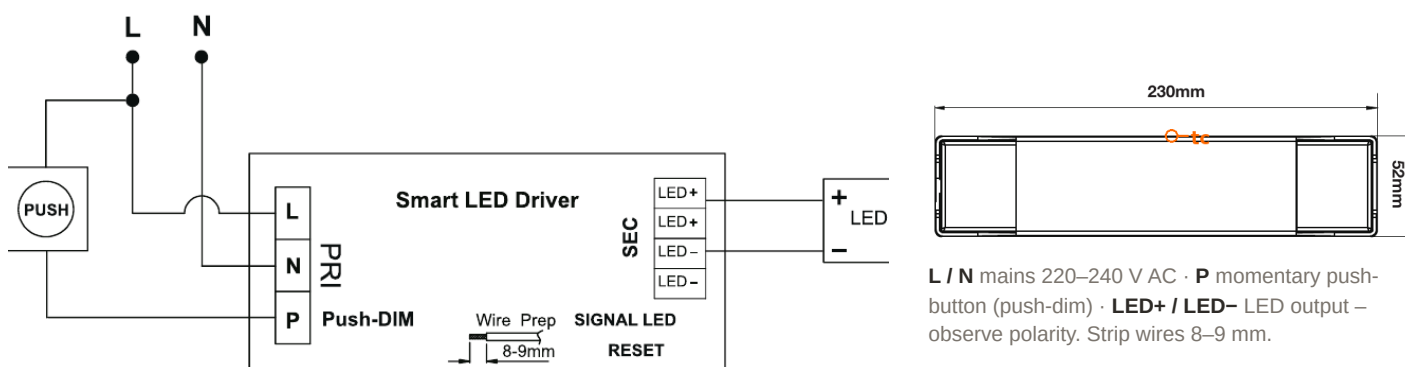
Scan to get the Shelly app



TECHNICAL DATA

INPUT		OUTPUT	
Voltage Un	220–240 V AC	Voltage Uout	24 V DC
Current In	0.52 A	Current Iout	0–5 A (5 A max)
Frequency fn	50 Hz	Power Pout	120 W max
Power factor λ	0.95	No-load voltage	24 V max
THD	< 12 %	Efficiency η	93 %
Ambient ta / case tc	45 °C / 85 °C	Radio	Wi-Fi 2.4 GHz, BLE
Dimensions	230 × 52 mm		

INSTALLATION



SYSTEM BUTTON

Network settings reset hold ≈ 5 s



Hold the system button until the LED blinks **200 ms ON / 500 ms OFF**, then release. Wi-Fi and Bluetooth settings are cleared and the device returns to setup mode so it can be configured again.

Factory reset hold ≈ 10 s



Keep holding until the LED blinks faster, **200 ms ON / 300 ms OFF**, then release. All settings are restored to factory defaults.

SYSTEM LED STATES

PATTERN (6 S)	NAME / TIMING	MEANING
	Solid ON Continuously ON	Connected and operating normally – online with Wi-Fi and Shelly Cloud.
	Slow, even blinking 1000 ms ON / 1000 ms OFF	Setup mode. The access point is active and the device is waiting to be added or configured.
	One long blink every few seconds 1000 ms ON / 3000 ms OFF	Trying to connect to Wi-Fi, or no network is currently available.
	One short flash every ~5 s 200 ms ON / 5000 ms OFF	Connected to Wi-Fi but not to Shelly Cloud (e.g. no internet access).
	LED OFF Continuously OFF	The system LED has been disabled in the settings, or the device has no power.
	Fast blinking, short flashes 200 ms ON / 500 ms OFF	Firmware update in progress – do not disconnect the power.
	Fast, even blinking 250 ms ON / 250 ms OFF	Factory reset in progress.

INTENDED USE

- For controlling compatible LED modules only.
- For fixed indoor installation unless otherwise stated.
- Use only within the specified electrical and temperature limits.

SAFETY



Warning: risk of electric shock. Installation must be carried out by a qualified electrician. Disconnect the mains supply and verify isolation before installation.

- Do not install or service the product while energised.
- Do not connect an incompatible LED load.
- Observe the correct LED polarity.
- Ensure adequate ventilation.
- Do not exceed the stated t_a or t_c temperature.

ELECTRICAL CONNECTION

L / N mains 220–240 V AC · **P** momentary push-button (push-dim) · **LED+ / LED-** LED output – observe polarity. Strip wires 8–9 mm.

Rigid or flexible conductors **0.75–2.5 mm²**, stripped 8–9 mm. Fit ferrules on flexible conductors.

The **t_c** point is in the middle of the top of the housing. Measured there, the case temperature must not exceed 85 °C once installed.

DISPOSAL



Do not dispose of the product with household waste. Take it to an approved collection point for electrical and electronic equipment.

- Do not cover with insulation unless specifically permitted.
- Do not use the product if damaged.
- Do not open, modify or repair the product.
- The product must be installed inside a suitable enclosure or luminaire.
- Follow applicable national electrical installation regulations.



Warning: the P (push-dim) terminal carries mains voltage. Route and insulate it like L and N. Use a momentary push-button rated for mains voltage (at least 250 V AC) with a normally-open contact, installed behind a cover. Never connect a bell-push, SELV or other extra-low-voltage button.

The system button only works while the driver is energised. Plan the installation so that the button can be reached in the installed position. If a cover must be opened to reach it, only a qualified electrician may do so, with the driver still securely mounted and all live terminals covered. Never press the button on a driver that has been removed but is still connected to the mains.

LED COMPATIBILITY

- ✓ **Permitted:** 24 V constant-voltage LED strips and modules.
- ✗ **Not permitted:** LED lamps with integrated driver, addressable RGB / RGBW LED strips, halogen lamps, incandescent lamps.

Required LED voltage	24 V
Maximum load	5 A

RADIO

Bluetooth frequency range	2402–2480 MHz
Wi-Fi 2.4 GHz frequency range	2412–2472 MHz
Max. RF power, BLE	1.48 dBm
Max. RF power, Wi-Fi	16.3 dBm

SETUP AND CONTROL

1

Wire the driver. With the mains supply switched off, connect L and N, the LED module to LED+ / LED–, and, if used, a push-button to the P terminal.

2

Switch on the supply. Restore the mains supply. The system LED then shows the state of the driver.

3

Get the app. Scan the QR code and download the Shelly app.

4

Add and control. Enable Bluetooth on your mobile device, add the driver in the Shelly app and control the lighting from your phone.

PUSH-BUTTON (P TERMINAL)	FUNCTION
Short press	Switch ON / OFF
Press and hold	Dim up / down. The next long press reverses the dimming direction.

TROUBLESHOOTING

PROBLEM	CHECK
LED does not switch on	Check the cable connections, that the LED voltage matches the driver output, and that the output is switched on in the app.
LED flickers	Check that the driver matches the luminaire (voltage range and current).
Driver overheats	Overheating reduces current and power. Improve ventilation and check t_a / t_c limits.

EU Declaration of Conformity. Hereby, Light Solutions ApS declares that the radio equipment type 80-870-SH-120W is in compliance with Directive 2014/53/EU. The full text of the EU Declaration of Conformity is available at www.lightsolutions.dk/wp-content/themes/lightsolutions-theme-final/documents/driver-manuals/80-870-SH_EU_DoC.pdf

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