



Installation Manual

Remote Power Switch Box Version

LED-RPS-CL-B
LED-RPS-CL-B1

Release Version 1.1 (November 2025)

Important Information

Safety Precautions and Maintenance

FOR OPTIMUM PERFORMANCE, PLEASE NOTE
THE FOLLOWING WHEN SETTING UP AND
USING THE REMOTE POWER SWITCH:

About the Symbols

To ensure safe and proper use of the product, this manual uses a number of symbols to prevent injury to you and others as well as damage to property. The symbols and their meanings are described below. Be sure to understand them thoroughly before reading this manual.



WARNING

Failing to heed this symbol and handling the product incorrectly could result in accidents leading to major injury or death.



CAUTION

Failing to heed this symbol and handling the product incorrectly could result in personal injury or damage to surrounding property.

Examples of symbols

	⚠ Indicates a warning or caution. This symbol indicates you should be careful of electric shocks.
	⊘ Indicates a prohibited action. This symbol indicates something that must be prohibited.
	● Indicates a mandatory action. This symbol indicates that the power cord should be unplugged from the power outlet.

- Be sure to read the following before using the product to use it correctly and safely.

Service & Support

Service & Support in Europe

Please contact:

Sharp Display Solutions Europe GmbH
Landshuter Allee 12-14, D-80637 München
Phone: + 49 (0) 89/99699-0
Fax: + 49 (0) 89/99699-500

For the latest information please see

<https://www.sharpdisplays.eu>

Data is subject to change without notice.

Safety Manual, Installation Manual and more information are available here:

https://www.sharpdisplays.eu/LED-RPS-CL-B_Manual



WARNING



Do not apply vibrations or shocks to the product.



Do not install the product to unstable locations or locations subject to vibrations.



Always ask a technician to perform the installation.



Do not connect the cables with wet hands. Otherwise, it may cause an injury or an electrical shock.



Do not repair or modify the product yourself. Otherwise, it may cause an injury, a fire or an electrical shock.



In case of thunder, do not touch the power cord. Otherwise, it may cause an electrical shock.



Connect the product to the correct voltage. If the product is connected to a voltage other than the specified voltage, it may lead to a fire or an electrical shock.



In case of a malfunction (nothing is displayed on the screen, etc.) or if smoke, abnormal heat, or a strange sound or odor is generated, turn the power off and immediately ask a technician or your retailer for repair.



Do not put objects into the product. Otherwise, it may cause a fire or an electrical shock.



In case the product is in contact with water or another liquid, immediately disconnect the power supply and stop using the product. If you continue using the product in that state, it may lead to a malfunction, a fire, or an electrical shock.

CAUTION



When connecting the power cord to the product's AC IN terminal, make sure the connector is fully and firmly inserted.



Do not damage the power cord. Do not put heavy objects on it, place it near heaters, pull it with excessive strength, or apply a strong force on it while it is bent. A damaged power cord may cause a fire or an electrical shock.



Do not install the product in narrow places where heat tends to build up.



Do not use the product in an environment with low heat dissipation. Otherwise, it may cause a malfunction.



Do not use the product in a vehicle or another means of transportation.



Do not place the product under direct sunlight or near heaters.



This product is designed to be used indoors. Do not use it outdoors. Otherwise, it may cause a malfunction.



Do not use or store the product in the following places.

- Near heaters
- Places with lots of humidity or dust, or places subject to oily smoke
- Places where water or oil may splash
- Places with lots of corrosive gases, such as near hot springs
- Places where the product may freeze
- Do not place the product on its side, face down, or upside down.
- Places with lots of vibrations



If you will not be using the product for a long time, disconnect it from the power distributor for safety purposes.



Disconnect the power supply when performing maintenance.



Install the product in accordance with local laws and regulations.

This product can only be serviced in the country where it was purchased.

Box Content

- 1x LED-RPS-CL-B1
- 1x M12 patch cable 1.5 m
- 1x M12 male connector with screw terminals
- 1x M12 female connector with screw terminals
- 1x Manual



LED-RPS-CL-B1



M12 patch cable 1.5 m

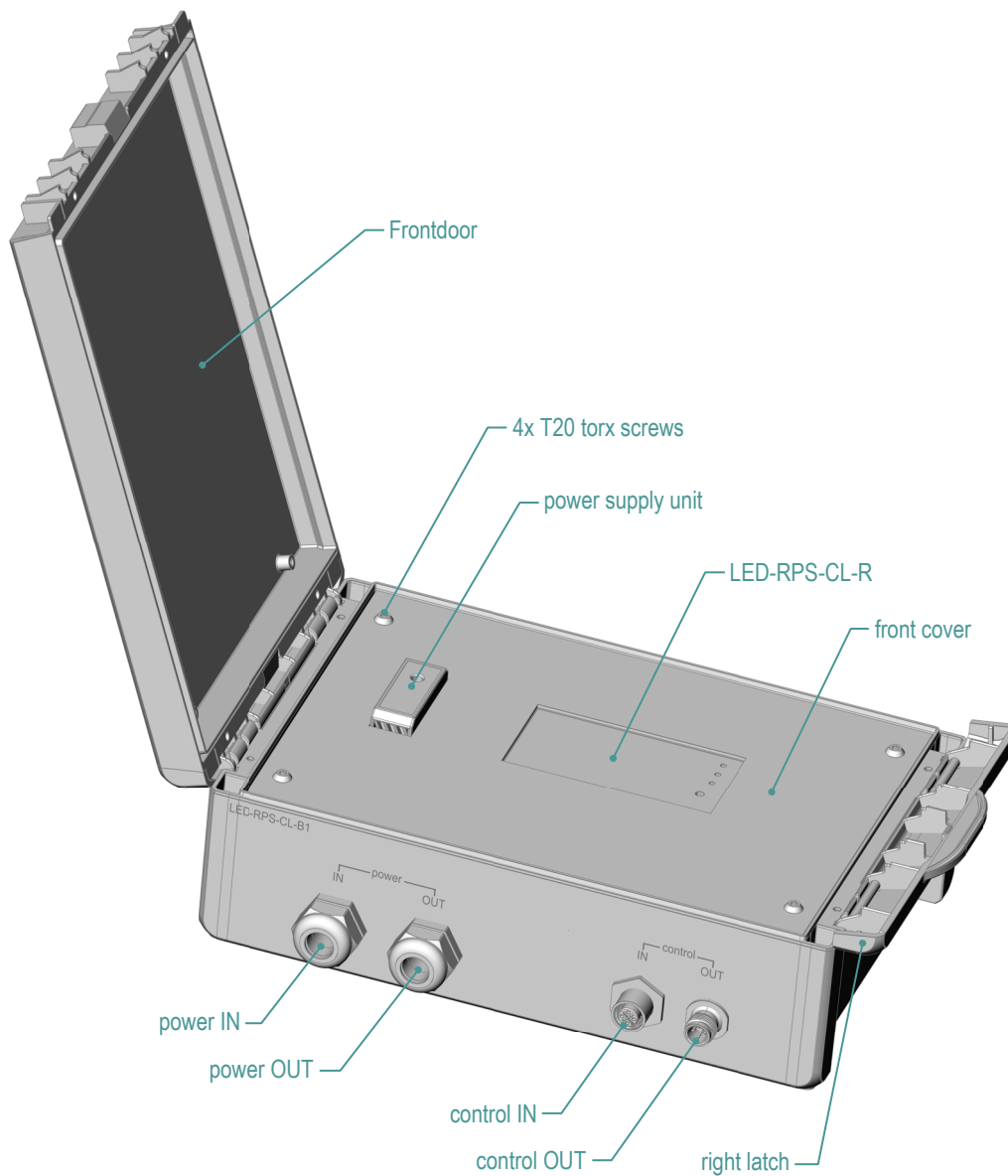


M12 male connector with screw terminals



M12 female connector with screw terminals

Mounting & Parts

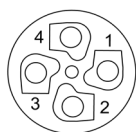


AC Power

- Open the front door by pushing the right latch to the right side
- Unscrew the four T20 Torx screws on the front cover
- Take off the front cover
- Insert the AC cables through the M20 cable glands
- Connect the AC conductor to the corresponding clamps L-in, L-out, N and PE
- Reassemble the front cover

Control Sockets

Control IN



Screw terminal of the M12 male connector

Function	M12 PIN	Colour	INTERNAL CLAMP POS
GND (Common)	1	Brown	GND
RS485 A	2	White	A
RS485 B	3	Blue	B
GPIO IN	4	Black	IN

Control OUT



Screw terminal of the M12 female connector

Function	M12 PIN	Colour	INTERNAL CLAMP POS
GND (Common)	1	Brown	GND
RS485 A	2	White	A
RS485 B	3	Blue	B
GPIO OUT	4	Black	OUT

Control IN configured for Pushbutton

Function	M12 PIN	Colour	INTERNAL CLAMP POS	PUSHBUTTON
GND (Common)	1	Brown	GND	Contact C
GPIO IN	2	White	IN	Contact NO
GPIO OUT	3	Blue	OUT	Led K (-)
+12V	4	Black	+12V	Led A (+)

To connect a pushbutton with LED indicator you must make following changes.

- Swap the terminal connection on the internal clamps according table below.
- Change the software setup of the LED-RPS-CL-R. The GPIO interface must be set to push button. For more details, please refer to the LED-RPS-CL-R Installation Manual. The manual and more information are available here: <https://www.sharpdiscplays.eu/LED-RPS-CL-R>

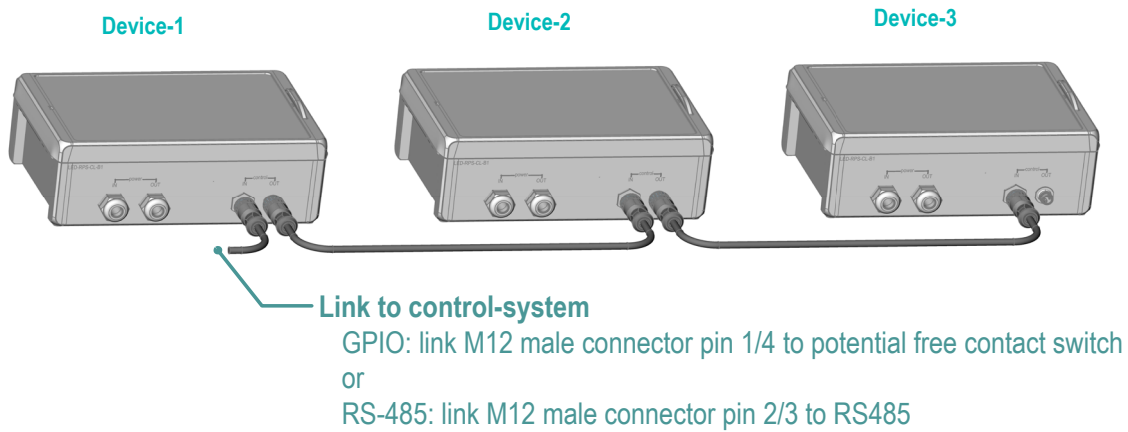
Interconnection

Connect the control-IN port of Device-1 to the control system (e.g., AMX, Crestron) via GPIO or RS-485. Then connect the control-OUT port of Device-1 to the control-IN port of Device-2 using the included M12 patch cable. Repeat this for additional devices as needed.

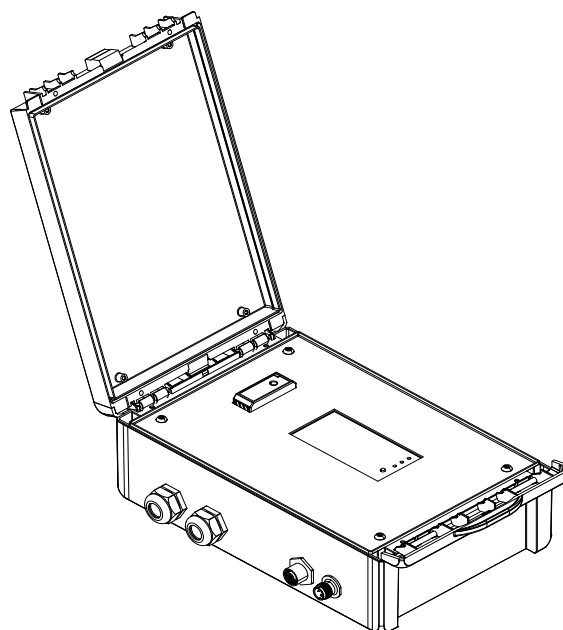
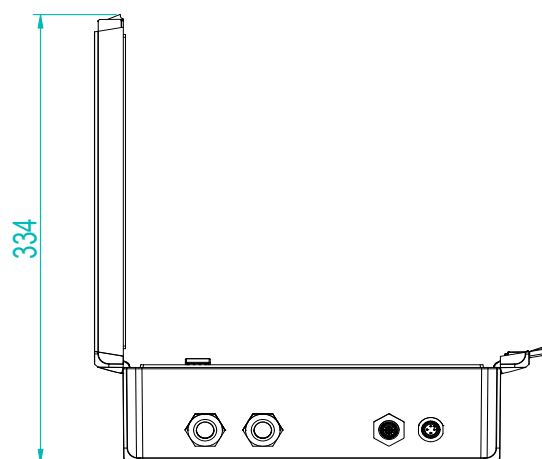
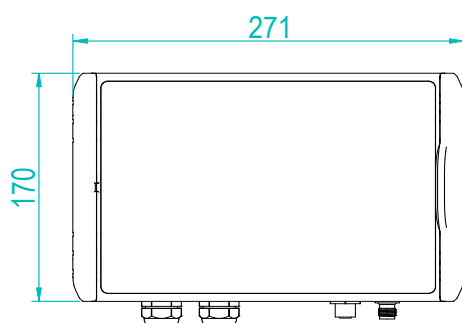
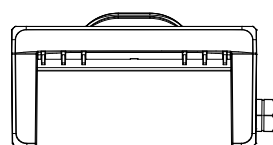
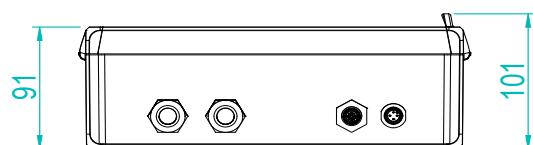
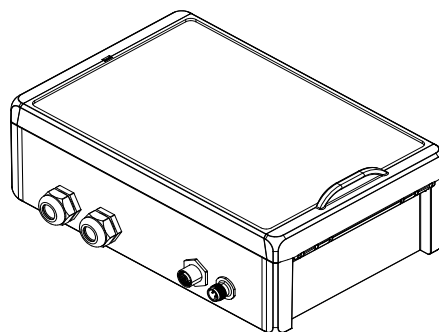
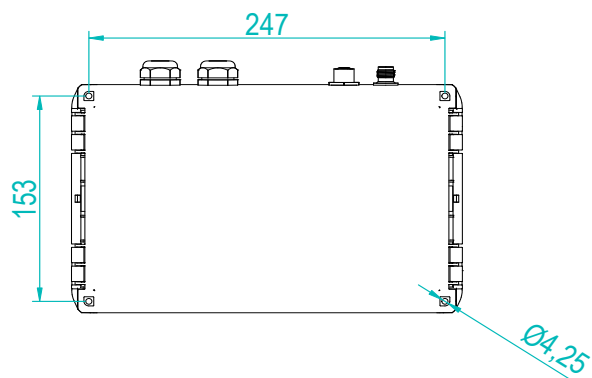
- GPIO control: There is no limit to the number of devices. Each subsequent device will automatically switch on with a delay of approximately 1.8 seconds.
- RS-485 control: Up to 254 devices can be connected. Each device must have a unique address. The default address is 0x02.

For more details, please refer to the LED-RPS-CL-R Installation Manual, available here:

https://www.sharpdisplays.eu/LED-RPS-CL-R_Installation_Manual



Dimensions



Specifications

AC	Input voltage	100 V AC to 240 V AC
	Input current	Max. 16 A
	Clamp	Wire cross section: Solid conductor 1.5...6 mm ² Fine stranded conductor 1.5...4 mm ² Stripping length 11...13 mm
	Cable Glands	2x M20 Clamping range 6...13 mm Ø
CONTROL	Serial	RS-485
	GPIO IN	For potential free contact switch only! Short circuit current: 2mA Open circuit voltage: 12V
	GPIO OUT	Open collector output
	Input	M12 male connector with screw connection Wire cross section max. 0.75mm ² Jacket clamping range 4...8 mm Ø
	Output	M12 female connector with screw connection Wire cross section max. 0.75mm ² Jacket clamping range 4...8 mm Ø
OPERATING ENVIRONMENT	Temperature	-20 to 40°C
	Humidity	10% to 80% (without condensation)
	Altitude	No more than 5000 m
DIMENSIONS		271 x 170 x 101 mm
WEIGHT		1400 g