

5 YEARS WARRANTY

IP 66

CE

UK CA

RoHS Compliant

UL Certified

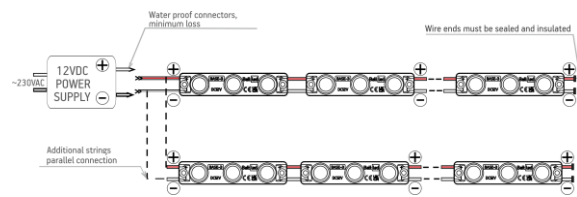
UL Certified

# BASE-3 INSTALLATION GUIDE

## READ THE INSTRUCTIONS CAREFULLY BEFORE MOUNTING

- 1.** Clean the inside of the sign with surface cleaner (e.g. ethanol) to make sure it is free of dirt.
- 2.** Remove protective layer from the backside of the module and stick LED modules into place. For firm fixing, use rivets or screws to secure LED module within the letter / box.
- 3.** Drill the holes at the bottom or side of the letter / box for the wire connection to DC power supplies and grommet the hole for supply wire access.
- 4.** Modules may be connected in series or parallel with connectors. Cap all unused wires. The strand of modules should not be looped to create a closed circuit.
- 5.** Cap all unused wires. The strand of modules should not be looped to create a closed circuit.
- 6.** Run a wire from the power supply to each channel letter and connect to the first LED module on the strip. Must be used with 12 V BaltLED Power Supplies.
- 7.** Connect the Red wire (+) of the LED module to the Red wire (+) of the power supply. Connect the black wire (-) of the LED module to the black wire (-) of the power supply.
- 8.** Finish by connecting AC power line to the input wires of the power supply.

### CONNECTION SCHEME



! 20 pcs - max number of modules in one chain when the power supplied from single end. !  
String end voltage can't be less than 11V, do not exceed specified module string length

### POWER SUPPLY LOAD RECOMMENDATIONS

0.72 W MODULE 12 VDC POWER SUPPLY	QUANTITY modules	2 m*		5 m*		10 m*	
		mm <sup>2</sup>	AWG	mm <sup>2</sup>	AWG	mm <sup>2</sup>	AWG
BPSP-40-12V.1	44	1,3	16	2,5	13	6	10
BPSP-60-12V.1	66	1,5	15	4	11	10	7
BPSP-100-12V.1	111	2	14	6	10	10	7
BPSP-150-12V.1	166	3,3	13	10	7	16	5

0.96 W MODULE 12 VDC POWER SUPPLY	QUANTITY modules	2 m*		5 m*		10 m*	
		mm <sup>2</sup>	AWG	mm <sup>2</sup>	AWG	mm <sup>2</sup>	AWG
BPSP-40-12V.1	33	1,5	15	2,5	13	6	10
BPSP-60-12V.1	50	1,5	15	4	11	10	7
BPSP-100-12V.1	83	2,5	13	6	10	10	7
BPSP-150-12V.1	125	4	11	10	7	16	5

1.2 W MODULE 12 VDC POWER SUPPLY	QUANTITY modules	2 m*		5 m*		10 m*	
		mm <sup>2</sup>	AWG	mm <sup>2</sup>	AWG	mm <sup>2</sup>	AWG
BPSP-40-12V.1	26	1,5	15	2,5	13	6	10
BPSP-60-12V.1	40	1,5	15	4	11	10	7
BPSP-100-12V.1	66	2,5	13	6	10	10	7
BPSP-150-12V.1	100	4	11	10	7	16	5

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## MOUNTING AND USING RECOMENDATIONS

- Be careful not to go beyond recommended maximum quantities of modules for a power supply. Overload may cause blinking or a failure.
- For mounting only pan head tapping screws must be used. The screws must apply DIN 7049 or DIN 968 standards.
- These modules are designed to work with constant-voltage power supply. Use only recommended power supplies, do not connect to a constant-current power supplies as it will cause immediate failure of modules.
- Before installing make sure, that the fixing area can bear the total weight of the modules.
- Please install LED modules with appropriate cables. There is a possibility, that cables may get disconnected due to contractions, caused by temperature changes.
- Please check that sulphur constituent is not contained in used components when the module is installed.
- Make sure to install modules in a place with a sufficient breathability in order to prevent lifetime reduction by heat. Operating temperature should not exceed +50 °C.
- When installing a module in a fixture (signboard), make sure to provide ventilation for constituent sulphur, drainage for rainwater to prevent aged deteriorations.
- When fixing cables of the modules do not use metal cable stop. The tunic of the cable may be damaged and therefore lead to short-circuited.
- Be sure to install modules at a maintainable place.
- In order to prevent LED from breaking down caused by static electricity, make sure not to touch the metal parts of the cable directly with bare hands.
- Make sure to apply correct polarity and direction of the modules. If mistaken, it will lead to failure and break down of the modules.
- When trying to perform lighting test (burn-in test), be sure to connect module to a power supply. Modules can fail to light up due to over-current. If the power supply is turned on without LED modules connected, modules can be connected only 5 minutes after the power supply has been turned off. Residual electricity may cause damage to modules.
- Avoid applying force while bending, twisting or pulling the power supply cables to minimize the risk of electrical shock.
- If any signs of smoke or the smell of burning plastic occurs, turn off modules immediately and investigate the power supply and the wiring carefully.
- Make sure to record and keep product lot and installation date of the modules.

## STORAGE AND MAINTANANCE CONDITIONS

- Before the maintenance, turn off the power and maintain the modules after modules cool down. Otherwise, electric shock or burn may occur.
- Do not pull the wiring while removing the modules to prevent possible disconnections.
- Make sure to store modules at dry places, avoid elevated temperatures, high pressures, vibrations, corrosive or combustive gas, direct sunlight.
- Do not wipe or spray modules with volatile materials, such as thinner or benzene as it may lead to combustion and malfunctioning.
- Modules cannot operate at presence of materials containing sulphur components or where sulphur containing gas is generated as it leads to changes in light color and malfunctioning.

## GENERAL CONDITIONS

- Installation of modules must be carried out by a qualified technician according to handling standards of electrical equipment.
- Modules and power supply have absolute maximum rating. Comply with the specifications to avoid failures or combustion.
- Avoid placing any high temperature objects around the modules, also avoid putting cloth or paper on the modules. It may lead to combustion, burnout, overheat, failure, deformation.
- Modules cannot be used in high-temperature environments, also they must not be subjected to vibration, shock, particles, corrosive or combustive gas. If not followed, it may cause fire, burnouts, bad insulation, failures, overheating and injuries.
- Do not insert or remove power plugs with wet hands to avoid electrical shock.
- While connecting or disconnecting electrical cords avoid being close to any heating equipment. It may lead to melting of the cords cause electrical shock.
- Do not modify the module. This may lead to electrical shock, failure, burnout, changes in module color.
- Do not install modules under direct sunlight or falling water. This may lead to electrical shock, burnouts, overheat, even combustion.
- While installing modules at humid areas, grounding of the power supply must be done.
- Modules cannot be used in combination with other types pf modules, as this may lead to failure.
- Modules can be used at ambient temperatures ranging from -20 °C to +50 °C..