

P - Light

Paper Lighting System

P - Light (PLS) Operating Manual

We will sincerely appreciate for your purchase PLS. Please read this manual before use and correctly utilize. Please acknowledge that our company is not able to assume the responsibility against damage, unfair profit and the claim by the third party by usage which deviates from notes described in this manual. Moreover, it is recommended that it is put in the place where can be immediately taken out in case of checking uncertain points or breaking down. Please contact the sales origin or the sales agency in case of missing it.

Warning In case of mishandling, the content which is able to assume the possibility that users owe the death or the serious injury is described.

1. The construction shop and the appliance dealer (qualified person) must do electrical work. People in general for electrical work are prohibited by the law.
2. In case of construction please turn off power. It is very dangerous when working while energized. Please do not energize until work is completed.
3. Please never repair and remodel because there is possibility relating to serious accident.
4. Please do not input except non-standard voltage. There is danger of relating to a serious accident or a possibility of not operating normally.
5. This product has been designed for heat radiation. Usage to disturb heat radiation occurs the sources of troubles.

Note In case of mishandling, the content which is able to assume the possibility that users owe injury and only property damage.

1. Please connect the power supply surely according to "Working instruction". When the connection is imperfect, it causes the breakdown.
2. Please remove the static electricity of the body touching a familiar metal to prevent static electricity from damaging it before it touches this product. The product might be damaged when touching without removing static electricity.
3. Please work after confirming the polarity of + or - in case of wiring. It causes the breakdown when reversely connected.
4. Please do not pull cables strongly in case of wiring. When the cable is strongly pulled, it causes the disconnection. Moreover, please connect it with noting short-circuited.
5. Please unite in wiring with noting not to hinder luminescence.
6. Please do not use this product in the environment to which water intentionally splashes.
7. Please do not use this product except the purpose. It is not able to owe responsibility for the breakdown and the trouble, etc. in case of usage besides the purpose at all.
8. Please deal with the connection and the waterproof processing surely by using the joining terminal etc. in case of connecting wire.
9. It is recommended to turn off in case of not being necessary for prolonging even a little life with usage of a timer etc. through it uses the high longevity type LED.

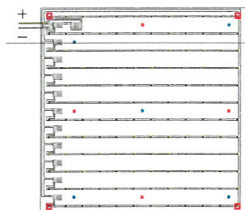
Product Specification

	12 Lines	6 Lines	5 Lines	4 Lines	3 Lines	2 Lines
Outward Dimension (mm)	300×300	300×150	300×125	300×100	300×75	300×50
	450×450	450×225	450×187.5	450×150	450×112.5	450×75
Thickness of Product (mm)	4.0					
Number of LED	144	72	60	48	36	24
Input current (A)	0.24	0.12	0.10	0.08	0.06	0.04
Supply Voltage (VDC)	48					
Maximum Power Consumption	11.52	5.76	4.8	3.84	2.88	1.92

1. LED : Nichia Corporation Ltd
2. Color : cool white (7000K~9000K)
warm white (2850K~3150K)
3. Life : estimated approx. 40,000 hours
(surrounding temperature 25 degrees,
the time which the brightness becomes 70%)

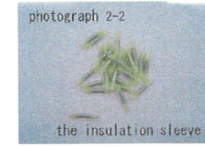
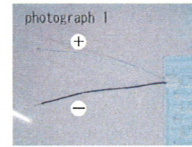
Installation and wiring method

If PLS is arranged without the space, the pitch distance of LED becomes even. It is not the amends value though this pitch is designed to be lost of the irregularity of light and shade when the distance from LED to the display surface is assumed to be 50mm. The distance might change by the permeability etc. of the acrylic fiber and the FF seat. Please verify it by the customer. Please fix to the position firmly with the screw and the double-faced tape, etc.

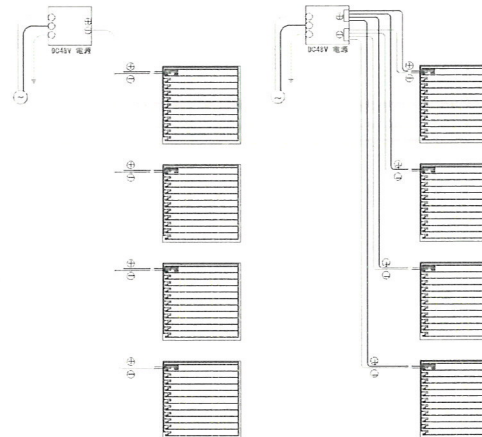


- *The screw position is recommended for four corners and center. ● Without wiring print, the screw is able to be mounted.
- *When LED is not fixed, the screw is additionally fixed to the ● position.
- *In case of tentative fixing by the double-faced tape, about 1cm×1cm double-faced tape is attached on four corners □ and install by screws. ●
- *As for cutting of P-Light, it can be converted for suitable size from 2 lines to 11 lines at the condition that minimum top 2 lines of the illustration showed at left side remain.
- *Cut by cutter and etc. along the line in a single horizontal row of left-side illustration.
- *Recommend to cut at the center area of each printed-circuit for safety.
- *In addition, it will be insulated for non-conductivity and keep for safety by taping for cut-section of printed-circuit.

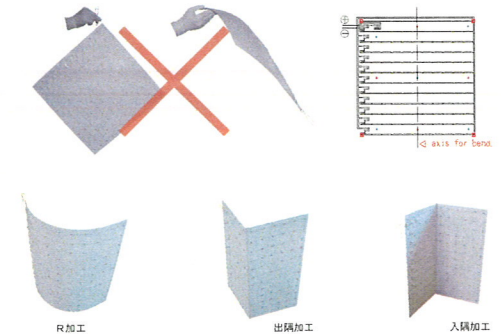
There is a polarity in the input. After confirming power supply code white(+) and black(-), please connect. (photograph 1) PLS can be used for outdoor by the waterproof processing. Please connect wires with the specialized tool by using the insulation sleeve etc. and process the waterproof treatment (photograph 2). Please connect wires surely to prevent connecting wires being loosen and shortage of connecting wires etc. Please pay attention for the permissible current and the voltage descent and less than 20m of the wiring distance from the power supply to PLS.



wiring diagram



wish



Please connect the power supply and PLS in parallel. Please note white (+) and black (-) because this product has a polarity. Please use the insulation sleeve etc. for the part of connecting wires. It is recommended that the connected number of sheets is up to about 80% to the power supply ability.

DC48V is required for power supply. Please prepare it by the customer. Please confirm an uncertain point with to the power supply manufacturer.

Please never hold the power supply code in case of carrying of this product and installation. Moreover, please avoid how to extremely load because this product is a thin specification. Please do not install it by beginning the peel in case of using it for outdoor though this product is a waterproof specification.

Please avoid rapid processing and carefully construct as follows though this product can be constructed by R processing, the salient angle, and the reentrant angle.
-Please note R processing is up to about 600φ.
-Please note the bend position of this product in the salient angle and the reentrant angle must be at the center of the LED chip and the chip.

- The Earthling wearing and the power failure fingerstall are recommended when handling it because this product is sensitive to static electricity and electric surge.
- In case of the excess voltage more than recommended voltage flows, it causes the breakdown and the damage of LED.
- In case that the surface of the product is pressured, it causes the breakdown and the damage of LED.
- It is likely to break when it falls and the high impact is received. Please note handling beforehand.
- Please pay attention for the mistake of the polarity in case of connecting the power supply and the product.
- Please do not utilize forbidding act with operating manual and instruction manual.

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