



SPECIFICATION

Product	T8 LED light tube
Part No.	NS-T8-4XX18-BXX(1T)
Date	2012-3-25
Version	V1.2

Foshan NationStar Optoelectronics Co., Ltd.		
LED Lighting Branch		
DRAFT	CHECK	CONFIRM



NS-T8-4XX18-BXX (1T)

General description

This LED tube is good for using in workshops, offices, banks, hospitals, supermarkets, subways, schools, and other indoor places which require high luminosity and energy-saving. It is designed to replace directly the conventional T8/T10 fluorescent tube light

✧ Features	
➤ Illuminant: ultra-bright white 3528 SMD LED.	➤ Color: cool white, natural white, warm white.
➤ PC cover: clear, matt, or striped.	➤ Base: conventional G13 base
➤ Every LED works independently. While one LED fails, others can work as usual.	➤ Instant response, no strobe light wave.
➤ High efficiency, low power consumption.	➤ The integrated constant current power supply ensures steady performance and long lifespan.
➤ One sided tube, with isolated driver, use with short starter	➤ TUV passed

Technical parameter

✧ Basic information

Type	Length	Part No.	Material	Al. Shell finish
Clear cover	1.2m	NS-T8-4XX18-BT2 (1T)	Aluminum alloy + PC	stripe /silver
Matt cover	1.2m	NS-T8-4XX18-BF2 (1T)	Aluminum alloy + PC	stripe /silver

✧ Electrical parameter (Temperature=25 °C)

Length	Part No.	Voltage (V AC)	Operating Frequency (Hz)	Input Current (A)	Rated power (W)	Efficiency
1.2m	NS-T8-4XX18-BXX (1T)	100-240	50/60	0.09*	18*	>80%*

* Test condition: 220V/50HZ

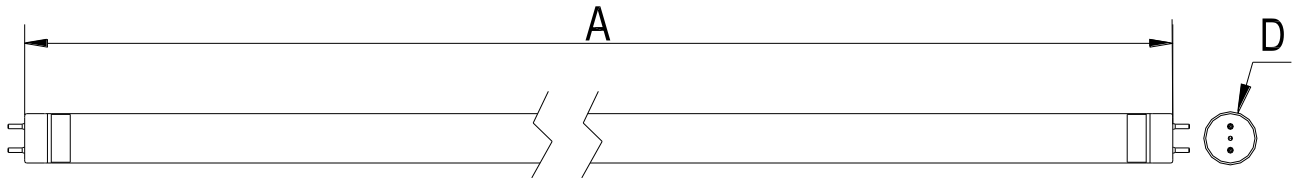


✧ **Optical Parameter (Temperature=25℃)**

Cover Type	Part No.	Light color	CCT (K)	CRI (Ra)	Lumen. (lm)	Lux (lux)			Angle (°)
						1m	2m	3m	
Clear Cover	NS-T8-4CW18-BT2 (1T)	Cool white	5300-8000	75	1500	450	180	70	120
	NS-T8-4NW18-BT2 (1T)	Neutral white	3700-4700	75	1350	405	160	65	120
	NS-T8-4WW18-BT2 (1T)	Warm white	2800-3700	75	1275	380	155	60	120
Matt Cover	NS-T8-4CW18-BF2 (1T)	Cool white	5300-8000	75	1350	405	160	65	130
	NS-T8-4NW18-BF2 (1T)	Neutral white	3700-4700	75	1215	365	145	60	130
	NS-T8-4WW18-BF2 (1T)	Warm white	2800-3700	75	1150	345	140	55	130

Outer dimensions

✧ **Dimensions information**



unit: mm

Length	Part No.	A		D
		Min.	Max.	T8
1.2m	NS-T8-4XX18-BX2 (1T)	1196	1199	Φ 26

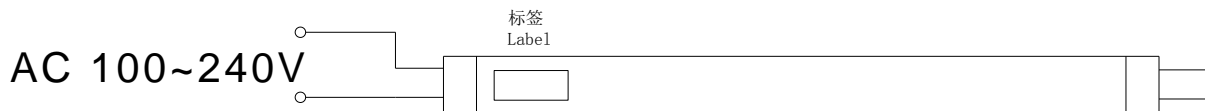


✧ Product pictures:

Aluminum alloy + Clear PC cover	
Aluminum alloy + Matt PC cover	

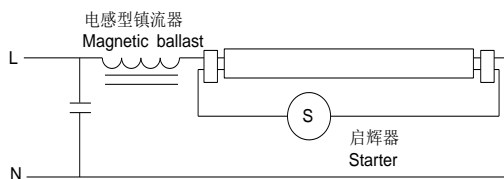
Installation

✧ Diagram

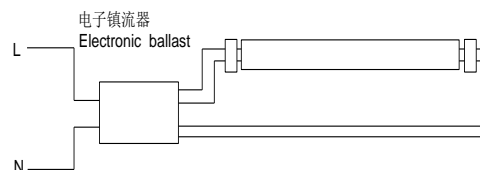


✧ Installation steps:

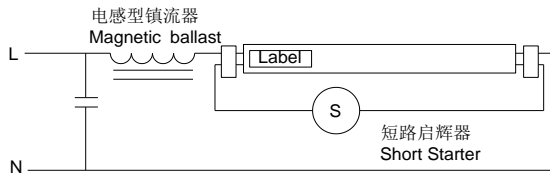
- Turn off the electricity supply before installation
- Make sure the circuit of the base is as following A2 and B2. For old circuit originally for conventional T8/T10 fluorescent, please follow the diagram to adjust the circuit as follow.



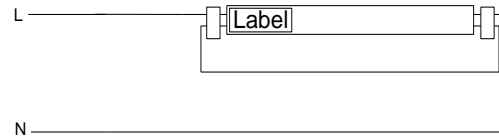
A1



B1



A2



B2

- For Figure A1 circuit, after removing the starter, the LED tube can be installed directly onto the G13 base (as shown in Figure A2).
For Figure B1 circuit, please remove the electronic ballast, and connect L and N to the joints in the base separately (as shown in Figure B2).
- After adjusting the circuit, install the LED tube in the same way as installing the conventional fluorescent tube light. Turn on the power supply of the base to check whether the tube light is working properly or not.

Instructions:

✧ Ambient condition requirements

- Working temperature: -20~40°C
- Working humidity: 30%~85%
- Storage temperature: -40~65°C
- Storage humidity: 10%~90%.

✧ Unpacking and Checking

- Open the package and check the products, please handle with care.
- If a new LED tube is found damaged, please contact us instantly with the complete package.
- Please do not try to use the damaged LED tube.

✧ Cautions

1. In order to ensure the product work properly, please use the power supply within indicating voltage range.
2. Please follow the correct installation steps to install the product. Please DO NOT touch the tube while tube is working.
3. Please turn off the power supply (cut off Live wire and Neutral wire at the same time) to avoid the risk of electric shock while installing or dismantling the product.
4. Do not use the products in the high humidity or dusty environment, including but not limited to the following environment: bathroom, sauna room and polishing workshop
5. Please install the LED tube in the base with standard size.
6. Do not look directly at LED light source for a long time, because the high-intensity light source may cause harm to eyes.
7. This product is not suitable for emergency lighting or occasion that requires high reliability.
8. DO NOT use with dimmer



9. Please contact a qualified electrician for repair services when you find the following problems, and do not disassemble the tube by yourself:
- 1) Electronic components are exposed to rain or other liquids splash.
 - 2) Product has peculiar smell, abnormal sound and unusual flash.
 - 3) The cover is broken .Debris goes into the base or the tube.
 - 4) The LED tube is not in the correct installation location of the base.

✧ Troubleshooting

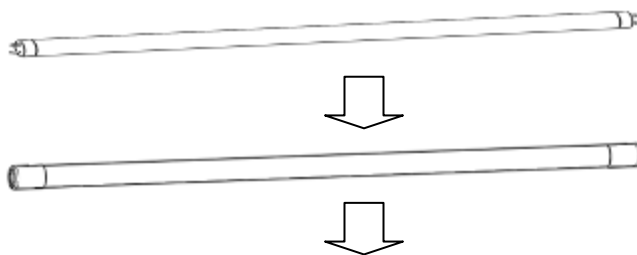
If it is not caused by improper operation, please confirm whether it is because of the following reasons or not. If the problem cannot be solved after taking the following measure, please stop using and contact a qualified electrician.

- 1、 The LED tube does not work after connecting the power supply.
 - Turn off the power supply and check whether the screws in circuit are loose or check whether the LED tube and the metal sheet in the base contact well.
- 2、 The lamp flashes when it is powered on.
 - Please call a qualified electrician to check whether the power supply voltage is lower than required.

✧ Packing information

Length	Part No.	Unit net weight (Kg)	Qty (pcs/package)	Carton gross weight (Kg)	Carton size (mm)
1.2m	NS-T8-4XX18-BXX(1T)	0.43	20	15.5	1295*245*272

✧ Packing method



1pcs in one cylinder



10pcs in one small carton



2 small cartons in one outer carton

Note:

- a、 The above parameters may be modified without prior notification. If there is any change, please refer to the actual product for correct data.
- b、 We reserve the right to amend the data without any prior notification. Sorry for the inconvenience.