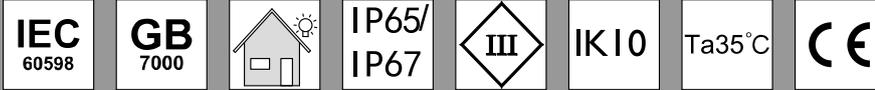


# LiteMagic Line In\_ground

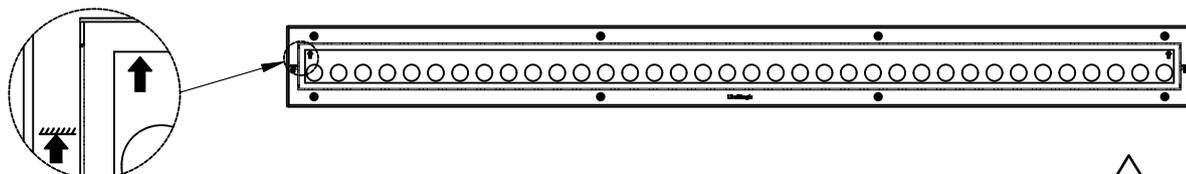
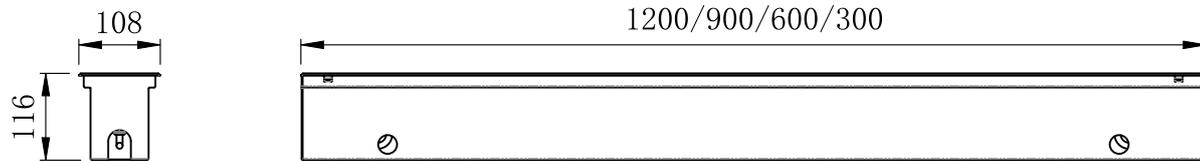
BBP429 LED

Mounting instruction



Type Number	Control method	kg	LEDs	CCT	Power	Voltage
BBP429 G2 LI20	ON/OFF	10.95	36	3000K/4000K	50W	DC24V
BBP429 G2 LI20	DMX	10.95	36	3000K/4000K	50W	DC24V
BBP429 G2 LI20	DMX	10.95	36	RGB	50W	DC24V
BBP429 G2 LI20	DMX	10.95	36	RGBW	50W	DC24V
BBP429 G2 L30	ON/OFF	2.87	9	3000K/4000K	12.5W	DC24V
BBP429 G2 L30	DMX	2.87	9	3000K/4000K	12.5W	DC24V
BBP429 G2 L30	DMX	2.87	9	RGB	12.5W	DC24V
BBP429 G2 L30	DMX	2.87	9	RGBW	12.5W	DC24V

## Luminaire Dimensions:



Attention: The arrow direction must always point towards the illuminated surface during installation.  Unit: mm

Signify(China) Investment Co., Ltd.  
 Building No. 9, Lane 888 Tianlin Road, Minhang District, Shanghai, China  
 Postalcode: 200233

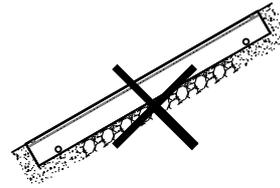
昕诺飞（中国）投资有限公司  
 地址：中国上海市闵行区田林路888弄9号楼  
 邮编：200233



## Installation Location:



The correct installation method



It is not recommended to install the luminaire on a slope. If it must be done, ensure that drainage is smooth and that the luminaire is not submerged in water for extended periods



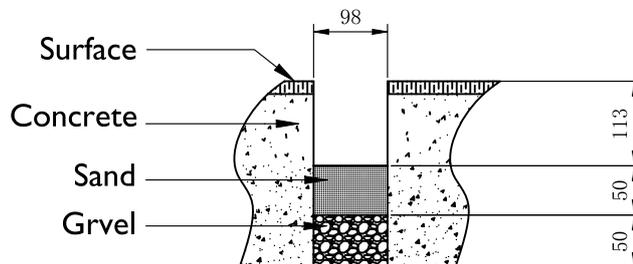
Do not install on the ceiling



Do not install on the wall.

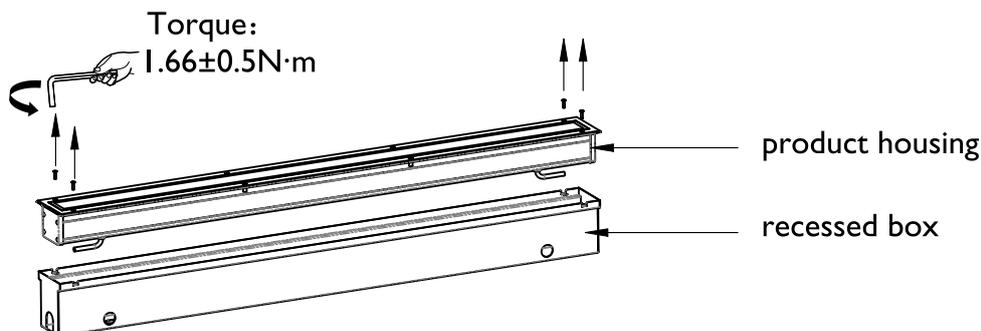
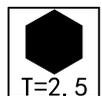
**Installation Steps:[Warm Reminder:To prevent cuts from the stainless steel cover,please wear installation gloves before handling and installing.]**

1、 Use professional equipment (to be provided by the customer) to cut out the required recessed slot in the installation surface. The bottom of the recessed slot should be covered with crushed stone and gravel (to be provided by the customer) to ensure proper drainage and prevent the luminaire from being submerged in water.



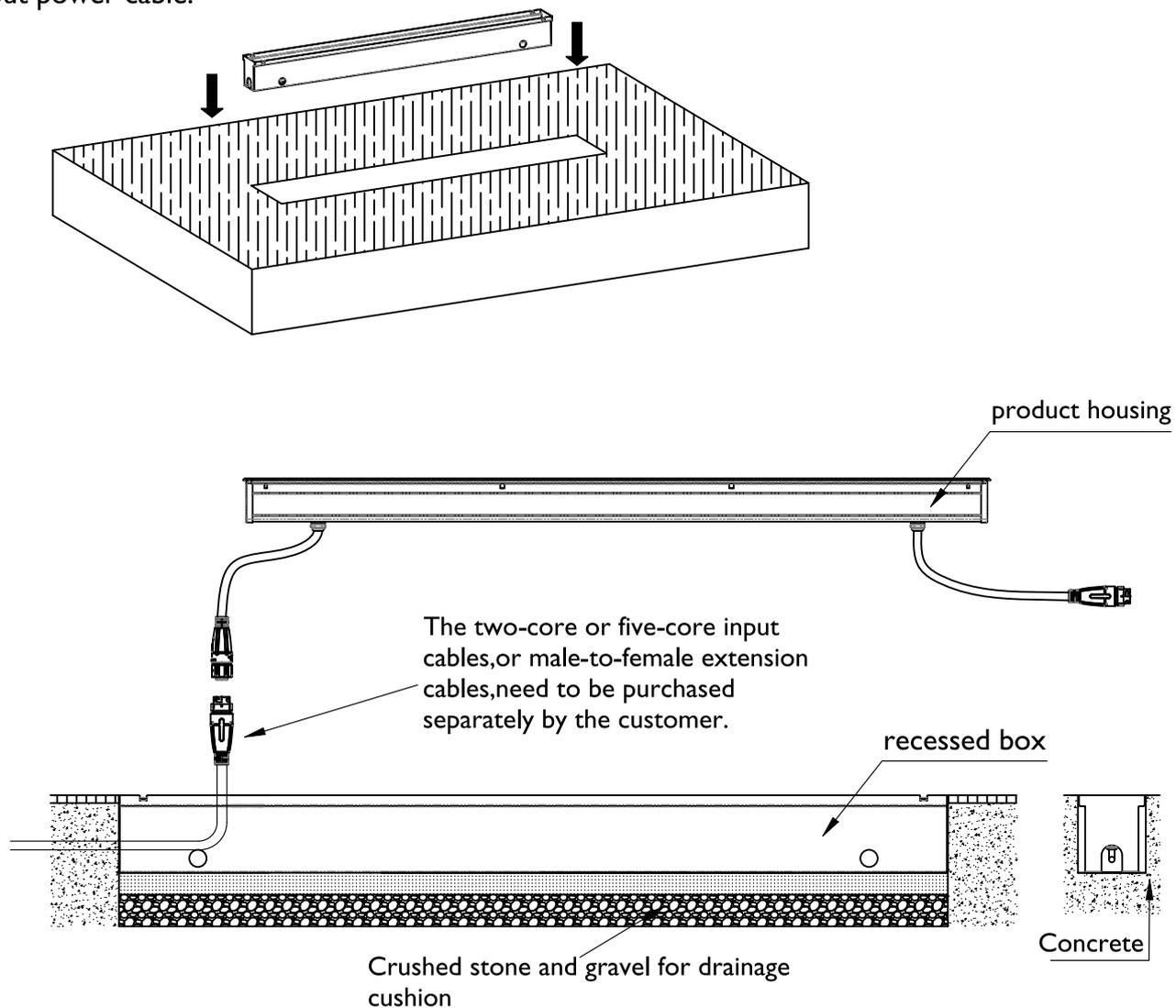
Unit: mm

2、 As shown in the figure below, use a wrench to rotate counterclockwise to loosen the screws at both ends, remove the housing, and disassemble the luminaire into the following two parts.



**Attention:** As shown in the figure above, remove the screws at both ends of the luminaire to disassemble the inground products.

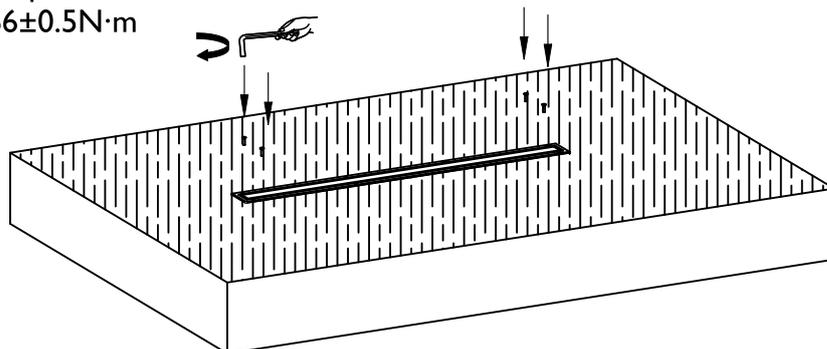
3、 Install and secure the recessed box parts into the reserved slot, and leave a conduit for the input power cable.



4、 After connecting the wires, install the product housing into the recessed box part. As shown in the figure below, use a wrench to rotate clockwise to tighten the screws that fix the top frame and recessed box.



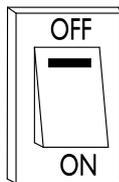
Torque:  
 $1.66 \pm 0.5 \text{ N} \cdot \text{m}$



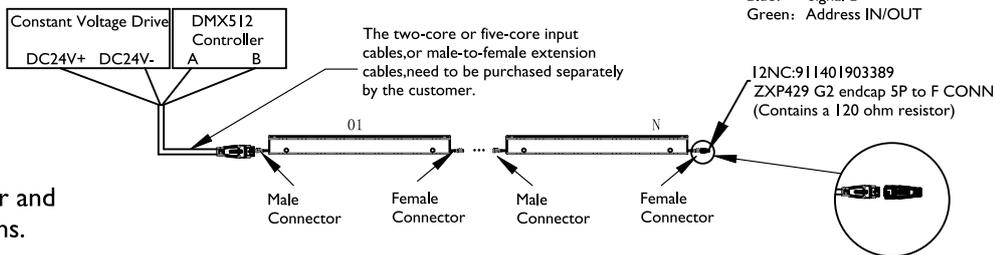
# Luminaire Wiring Instructions (DC/DMX)

It is recommended to use the Philips brand power supply. For details, please consult the Philips sales department.

The color sequence of the power and signal wires for the lighting fixtures:  
 2x1.31mm + 3x0.519mm  
 Black: DC24V+  
 White: DC24V-  
 Brown: Signal A  
 Blue: Signal B  
 Green: Address IN/OUT



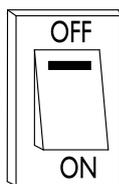
Turn off the power and put up warning signs.



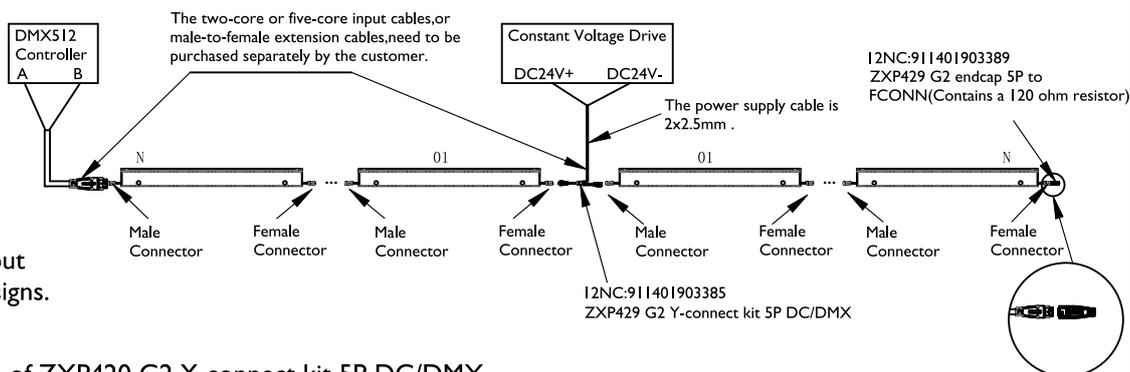
Requirements for the number of luminaires in series:

Recommended driver models					
12 NC	Description	Max. No. of interconnection luminaires			
		1200mm	900mm	600mm	300mm
		50W	37.5W	25W	12.5W
929001485580	LED Transformer 150W 24V 220-240V	2	3	5	10
929001485680	LED Transformer 300W 24V 220-240V	3	4	6	12

Plan A: Single-ended power output



Turn off the power and put up warning signs.



Color definition of ZXP420 G2 Y-connect kit 5P DC/DMX  
 bare wire: brown: DC24V+; blue: DC24V-

Requirements for the number of luminaires in series:

Recommended driver models					
12 NC	Description	Max. No. of interconnection luminaires			
		1200mm	900mm	600mm	300mm
		50W	37.5W	25W	12.5W
929001485580	LED Transformer 150W 24V 220-240V	2	3	5	10
929001485680	LED Transformer 300W 24V 220-240V	5	6	10	20

Plan B: Dual-ended power output

**Note:**

The power supply cable is calculated as 2x1.31 mm, and the maximum distance from the power supply end to the first light is 20m.

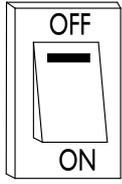
The signal can be daisy-chained through a maximum of 32 units. If further daisy-chaining is required, a signal amplifier must be added first.

Based on the plug of the lighting fixture and the cable attached to it; the current passing through the first light in each string should be less than or equal to 7A. Considering the power loss in the cable, the actual number of lights in a string is calculated as: (7A 24V/fixture power).

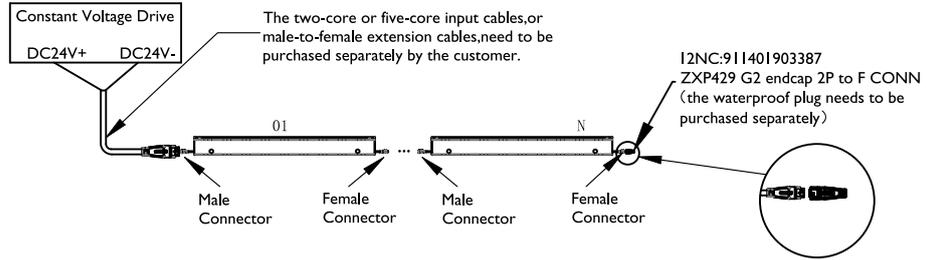
# Luminaire Wiring Instructions (DC/ON/OFF)

It is recommended to use the Philips brand power supply. For details, please consult the Philips sales department.

The color sequence of the power wires for the lighting fixtures:  
 2x1.31mm  
 Black: DC24V+  
 White: DC24V-



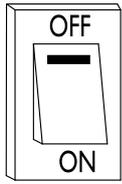
Turn off the power and put up warning signs.



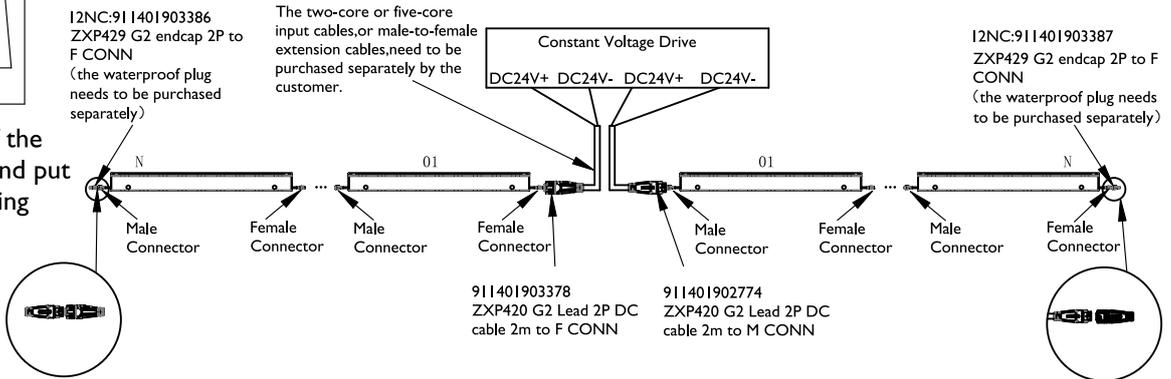
Requirements for the number of luminaires in series:

Recommended driver models		Max. No. of interconnection luminaires			
12 NC	Description	1200mm	900mm	600mm	300mm
		50W	37.5W	25W	12.5W
929001485580	LED Transformer 150W 24V 220-240V	2	3	5	10
929001485680	LED Transformer 300W 24V 220-240V	3	4	6	12

Plan A: Single-ended power output



Turn off the power and put up warning signs.



Requirements for the number of luminaires in series:

Recommended driver models		Max. No. of interconnection luminaires			
12 NC	Description	1200mm	900mm	600mm	300mm
		50W	37.5W	25W	12.5W
929001485580	LED Transformer 150W 24V 220-240V	2	3	5	10
929001485680	LED Transformer 300W 24V 220-240V	5	6	10	20

Plan B: Dual-ended power output

**Note:**

The power supply cable is calculated as 2x1.31mm, and the maximum distance from the power supply end to the first light is 20 meters.

Based on the plug of the lighting fixture and the cable attached to it, the current passing through the first light in each string should be less than or equal to 7A. Considering the power loss in the cable, the actual number of lights in a string is calculated as:  $(7A \times 24V / \text{fixture power})$ .



1. Need to consider the diameter of main cable when several fixtures connect together, and the loaded current of main cable need to larger than the total current of all fixtures.
2. Need to choose the suitable leakage protection switch for power distribution, also need to pay attention on fixture driver, cable length and wet environment might increase leakage current.
3. Need to consider the max surge current can be loaded when do power distribution and set enough tolerance, suggest to use start-up process.
4. The waterproof material for installation shall be prepared by customers.
5. The wire connection method is determined by local electrical codes and regulations. Typical method is to use either wire, nuts or screw terminal blocks.
6. The luminaire should be installed by a qualified electrician and wired in accordance with the latest IEE electrical regulations or the national requirements.
7. For type Z attachments: the external flexible cable or cord of this luminaire can not be replaced; if the cord is damaged, the luminaire shall be destroyed.
8. Do not energize during wiring, and put a warning board at the power off switch.
9. Rated static load 20KN, rated maximum surface temperature 80°C
10. Don't hot swap. Don't operate when power on.
11. The external cable of this luminaire cannot be replaced. If the cord is damaged, the luminaire should be destroyed.
12. The cable gland of connection box must be suitable for luminaire lead cable.
13. The light source of luminaire is not replaceable; when the light source reaches its end of life the whole luminaire shall be replaced
14. Regularly check; Regularly clean, etc.

#### Disclaimer

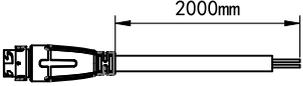
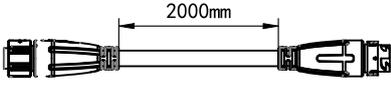
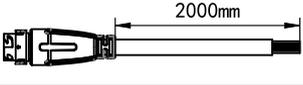
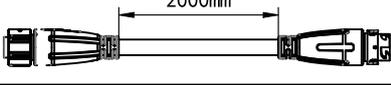
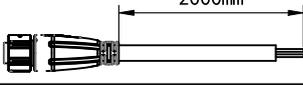
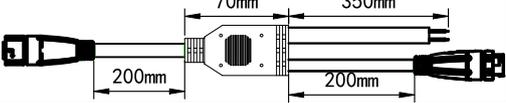
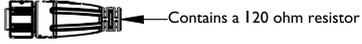
1. Please use and install the luminaires correctly according to the protection grade and other precautions marked in the [installation instructions] of the product. The luminaires should not be put into water pressure environment, The manufacturer shall not be liable for the failure of the luminaires protection caused thereby.
2. The manufacturer shall not be liable for any damage, product damages, personal injury or loss of property resulting from failure to install or operate the products as required.
3. The manufacturer shall not be liable for any damage, personal injury or other property loss caused by improper use or modification of the product structure.
4. The luminaire should avoid storage and usage in such a surroundings or an occasion that is with corrosion or hazardous gases like sulfide, halide, phthalate and so on.
5. The PC material cannot be used in such an ambience that is with ethylamine, tetra-dichloroethylene, which is corrosion or hazardous to PC material and so on.
6. For periodically cleaning maintenance of luminaire which PC material is exposed to outside, Acid solution or alkali solution cannot be used as a cleaning solution to wash outside surface of luminaire.



This marking indicates that this product should not be disposed with other household wastes throughout the EU, To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To return your used device, please use the return and collection systems or contact the retailer where the product was purchased. They can take this product for environmental safe recycling.



## List of separately purchased accessories

I2NC	Description	Picture example
911401903304	ZXP429 G2 Lead 2P DC cable 2m to M CONN	
911401903305	ZXP429 G2 Jump 2P DC cable 2m	
911401903306	ZXP429 G2 Lead 5P DC/DMX cable 2m	
911401903307	ZXP429 G2 Jump 5P DC/DMX cable 2m	
911401903384	ZXP429 G2 Lead 2P DC cable 2m to F CONN	
911401903385	ZXP429 G2 Y-connect kit 5P DC/DMX	
911401903386	ZXP429 G2 endcap 2P to M CONN	
911401903387	ZXP429 G2 endcap 2P to F CONN	
911401903388	ZXP429 G2 endcap 5P to M CONN	
911401903389	ZXP429 G2 endcap 5P to F CONN	
911401903782	ZXP429 G2 Jump 5P DMX connector	