



VL-WOSI3529-3D

INSTALLATION MANUAL

VL-WOSI3529-3D

TECHNICAL SUPPORT

+86 (0)137 1703 8703
www.valslighting.com

Tatfook Technology R&D Center
No. 59 Guangyuan 6th Road,
Fenghuang Street Guangming
District, Shenzhen

Installers must read this document and any other referenced documents in full before commencing installation work. Failure to observe all installation guidance in this document may result in unsafe installation, cause permanent product damage and void product warranty.

This document is subject to change without notice. Check for latest documentation with valslighting.



HANDLING PRECAUTIONS

POWER CABLES

The product end caps, power cables and connectors must not be pulled or twisted. Never pull the product by its power cables or hang it from its power cables or connectors.

IMPACT PROTECTION AND STATIC LOAD

This product has a maximum IK rating of IK10, and can resist a maximum 5kN/min static load. The product is not vandal resistant.

CUTTING AND SAWING

The product must not be cut, sawn, drilled or otherwise modified in any way.

DAMAGES

Inspect the product and if you see any damage upon unpacking report to valslighting immediately and do not install the product.

LOCATION

Suitable for wet and damp locations. Ensure adequate drainage under the product. Protect product from dust, paint and harmful substances during installation and use. Unsuitable for installation in environments subject to movement or vibration.

SAFETY GUIDANCE

WIRING GUIDE

Follow the guidance shown in the provided wiring guide, including maximum cable lengths, cable sizes and other wiring instructions. When running cables through an enclosure, ensure cables are protected from damage, separated from mains voltage cables and anchored against being pulled. Make connections appropriate for the IP rating of the product.

QUALIFIED INSTALLER

Installation must be carried out by a qualified person and conducted in accordance with local regulations and applicable standards.

THERMAL MANAGEMENT

Ensure ambient temperature (T_a) does not exceed 50°C .

Allow sufficient clear air space for the LED drivers, as well as suitable access to the drivers as specified on installation instructions.

DRIVERS

POWER OFF

Product and driver must not be live wired. Switch off power before work begins. Follow instructions and guidance for the make and model of driver being used.

24VDC SELV

Only use drivers with a maximum output of 24VDC. Drivers must be SELV, constant voltage with both overload and short-circuit protection.

DIMMERS

Check dimmer is compatible with the driver and certified to local regulations.

PROTECTION

Use only with 24VDC SELV power supply (driver) with overload and short-circuit protection. Rate driver load for at least 10% above stated load. Driver protection circuitry must not be relied upon to protect secondary 24VDC electrical circuits from damage caused by over-current or short circuit. DC fuses or DC electronic circuit breakers are recommended for full protection. Allow for access to drivers for maintenance and sufficient clear air space for ventilation.

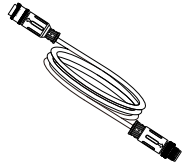
CABLING

Do not overload the driver. Damage will be caused by incorrect input voltage, reverse polarity or short circuit. Plan for loads, driver locations, dimming and cabling prior to start of work. Ensure basic insulation is maintained between mains and dimming control wires.

ACCESSORIES

Extension connect power cable

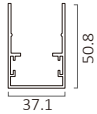
VL-ECPC
Power link cable
2m cable length



VL-ECPC
Power link cable
10mm cable length

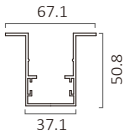
Bendable aluminum profile

VL-3059-BAP
1000mm Profile
Site cuttable



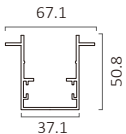
Bendable aluminum profile

VL-3059-RFAP
1000mm Profile
Site cuttable

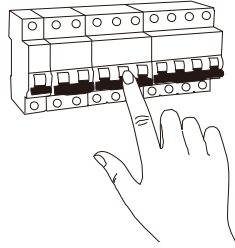


Bendable aluminum profile

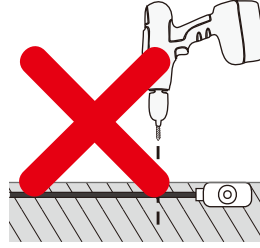
VL-3059-TRFAP
1000mm Profile
Site cuttable



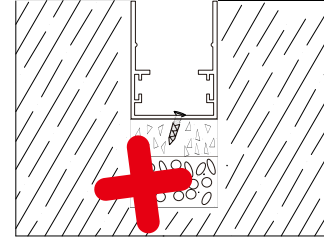
CHECK FIRST!



TURN POWER OFF!



CHECK SURFACE!



IMPROPER SCREW INSTALLATION

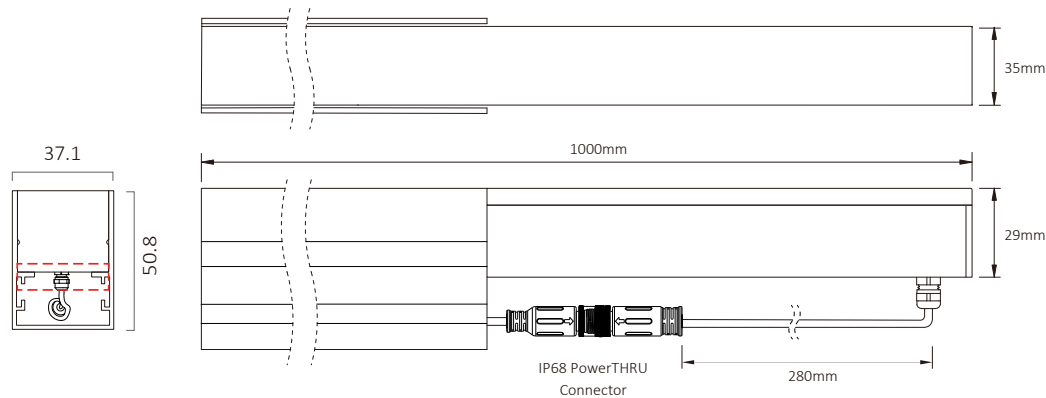


MAX. 5kN/min
BSEN 60598-2-13

INSTALLATION

1. Plan Installation

Check product and its dimensions against the planned installation. Runs of LEDs may have to be installed in a particular sequence.



~3934g per metre

Installation note!

The last light on a LED circuit should only have a single connector attached. Do not finish a run with a light that has two power connectors (leaving one unused) - water will ingress through unused connectors. Never expose open connectors or cable ends to water. Water can track through unsealed cable ends and cause irreparable damage to internal circuitry.

2. Prepare Power Supply

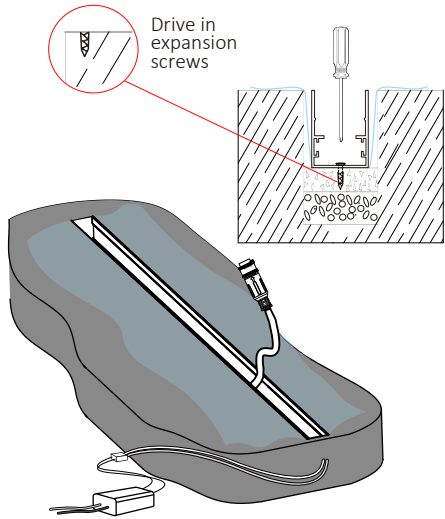
This product requires a 24VDC power supply. Please refer to the provided wiring guide document. Failure to follow guide may result in damage to the product and voiding of warranty.



LED driver must be located somewhere suitable for its IP rating. All connections made to and from the LED driver must be IP rated.

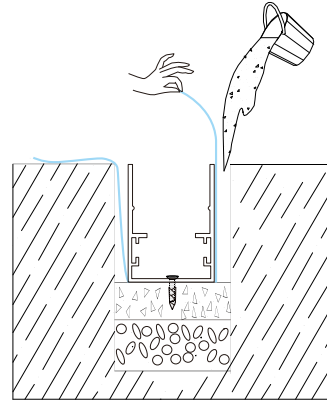
1. Install Profile

Place the film (avoid the concrete flow into inside of the the bendable profile) on the bottom of the profile, install the profile into the designated slot, Then screw the screws into the expansion screw holes.



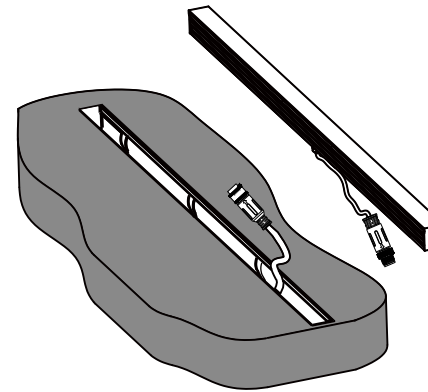
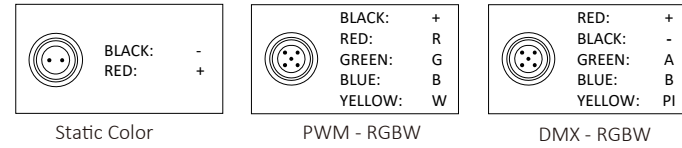
2. Connect Cable

Pull up the film, Fill the gaps on both sides of the profile with concrete. Remove the film after the concrete has dried completely.



3. Connect VL-WOSI3529-3D

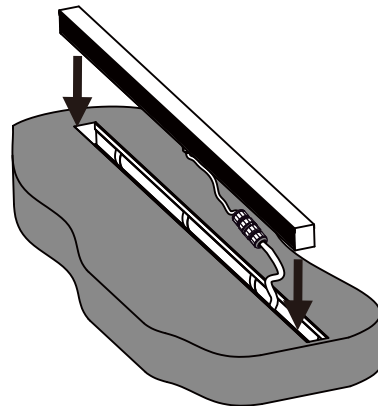
Confirm that the LED driver is disconnected from mains before joining the first fix connector to the connector.



4. Test VL-WOSI3529-3D

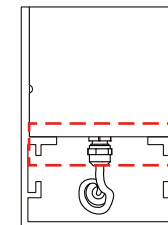
Verify that the circuit is working. Then lower the VL-WOSI3529-3D into the VL-WOSI3529-3D. channel.

If the product does not function as expected, turn power off immediately and check all connections.



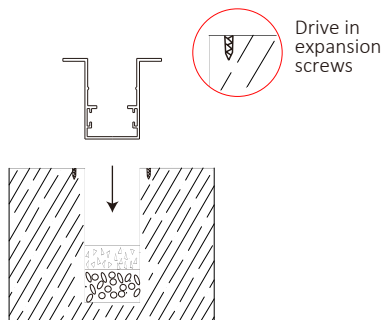
5. Cables

Make sure not to pinch any cables within the channel. Take care to tuck the cables beneath the internal lip (see diagram).



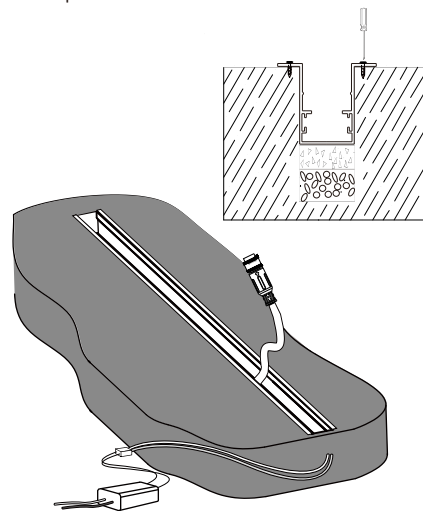
1. Install Profile

Cut the required grooves on the ground, drill holes at corresponding positions on both sides, and then screw in the expansion screws.



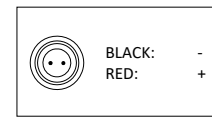
2. Connect Cable

Place the profile into the pre-cut groove, and screw in the expansion screws at the corresponding screw holes on both sides of the profile.

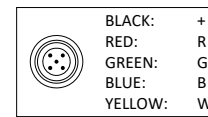


3. Connect VL-WOSI3529-3D

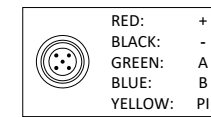
Confirm that the LED driver is disconnected from mains before joining the first fix connector to the connector.



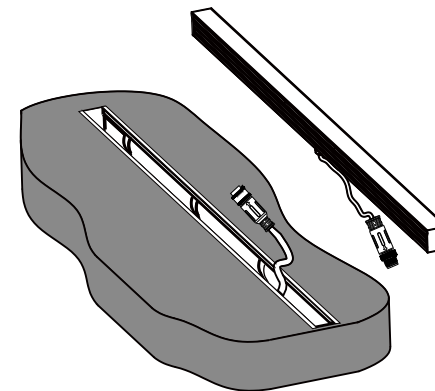
Static Color



PWM - RGBW

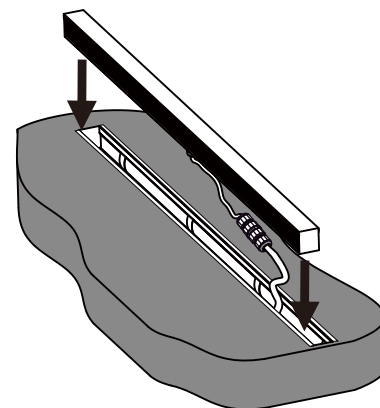


DMX - RGBW



4. Test VL-WOSI3529-3D

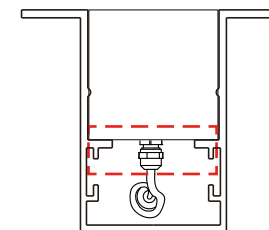
Verify that the circuit is working. Then lower the VL-WOSI3529-3D into the VL-WOSI3529-3D. channel.



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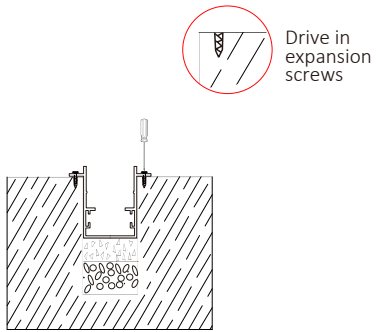
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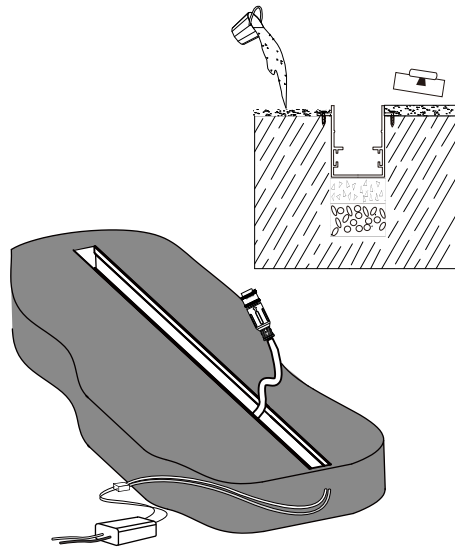
1. Install Profile

Mark out the required grooves on the ground, drill holes at corresponding positions on both sides, then screw in the expansion screws, place the profile into the grooves, and then screw in the screws at the corresponding expansion screw holes on both sides of the profile.



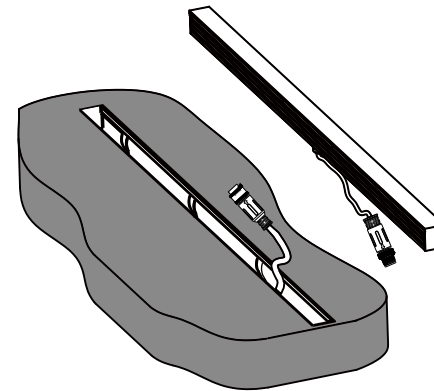
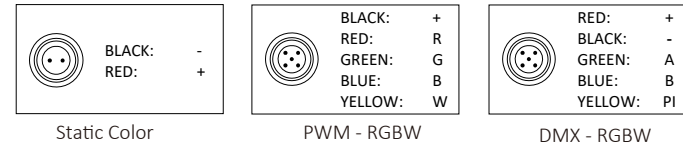
2. Connect Cable

Pour an additional layer of concrete at the protruding part of the profile and use tools to level it off.



3. Connect VL-WOSI3529-3D

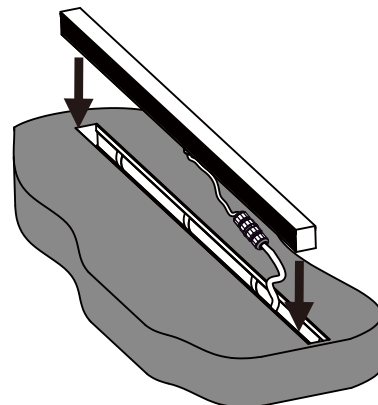
Confirm that the LED driver is disconnected from mains before joining the first fix connector to the connector.



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