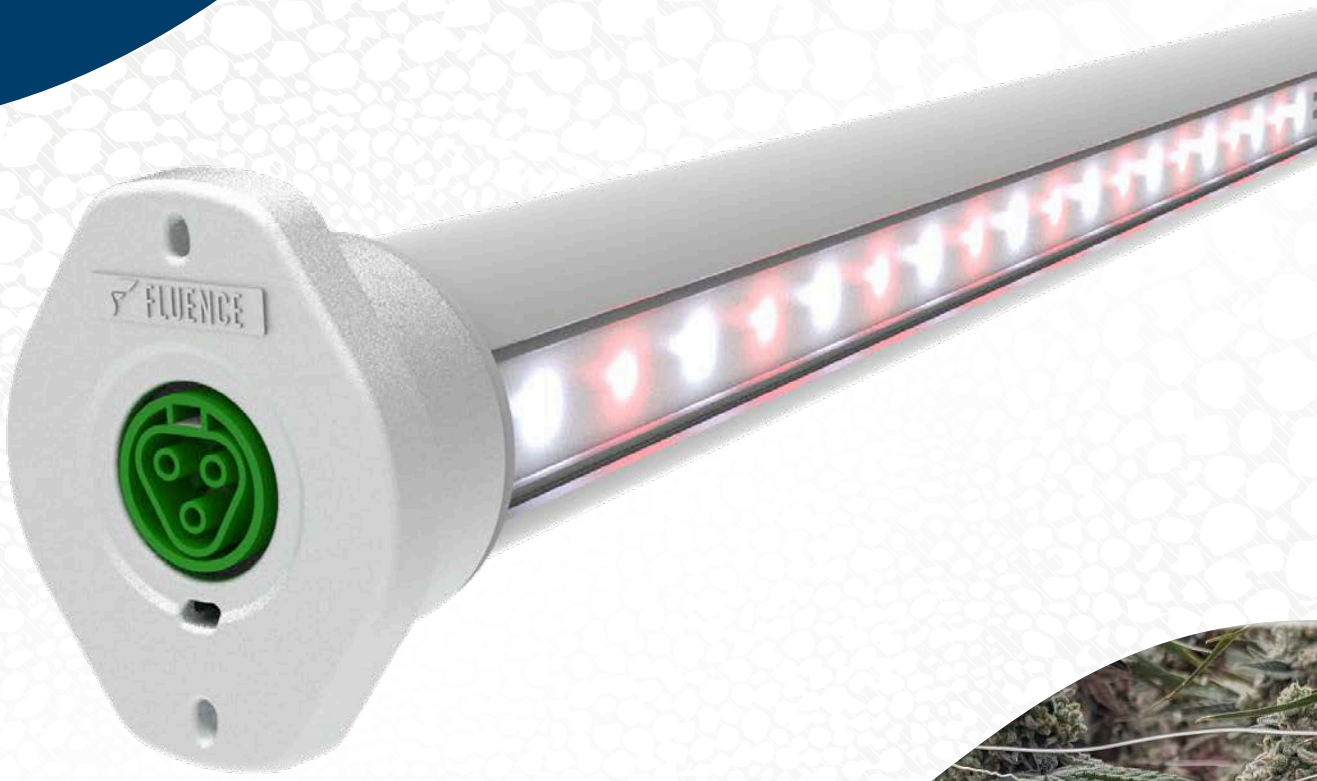
APPLICATION GUIDE

VYNE 2

FLUENCE



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Contents

Introduction

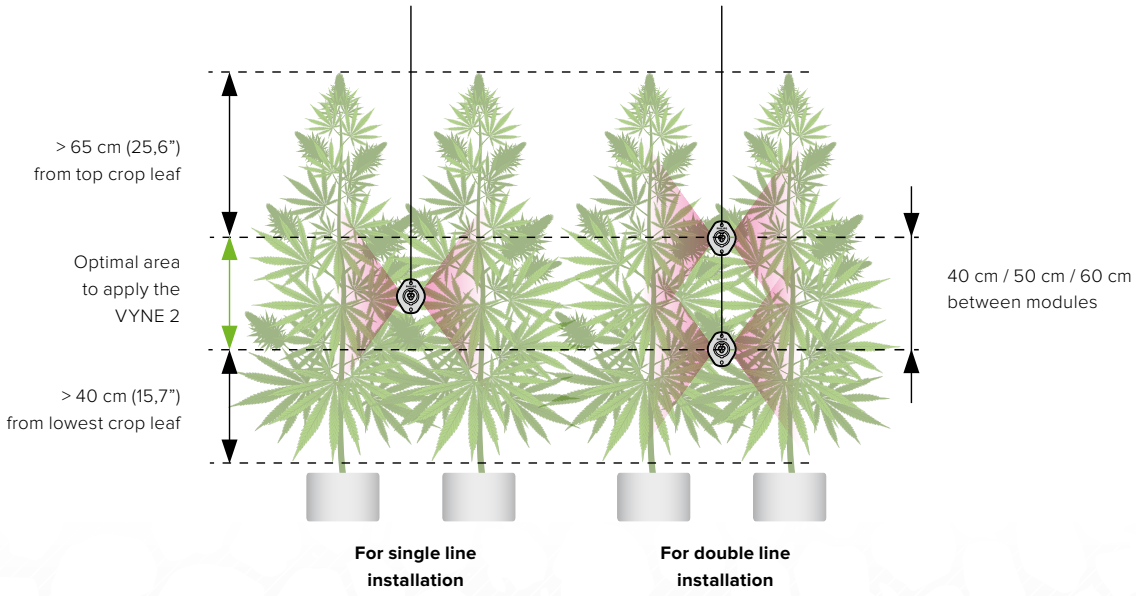
The **VYNE Series** is an advanced intercanopy lighting solution designed specifically for cannabis cultivation. It delivers targeted illumination to the lower, shadowed canopy, ensuring optimal light penetration for improved bud development and overall plant health.Placing light between your plants lets you achieve the maximum value and return from your production and your electricity costs for lighting. The VYNE 2 module comes with an easy plug-and-play connector and just a few cables and accessories. Connect up to 40* VYNE 2 modules with just one power connection, and save time, materials needed and installation costs, with cost savings up to 50%.

The VYNE 2 modules can easily be lifted one meter at a time, because of the flexible cable connection, which will also save time and hassle. With the sideways light-distribution pattern, the leaves will be optimally lit for highest yield.
The VYNE 2 module is designed to minimise maintenance.

The VYNE 2 module comes in version:

- Broad R6 (200-400V)

With a light output of up to 300 µmol/s and a system efficacy of up to 3.1 µmol/J.
The VYNE 2 module comes in lengths of 2 and 2.5 meters, allowing you to tailor it to your specific situation and get uniform light distribution right to the end of each row.



* Based on 400 V usage in Europe

Product information

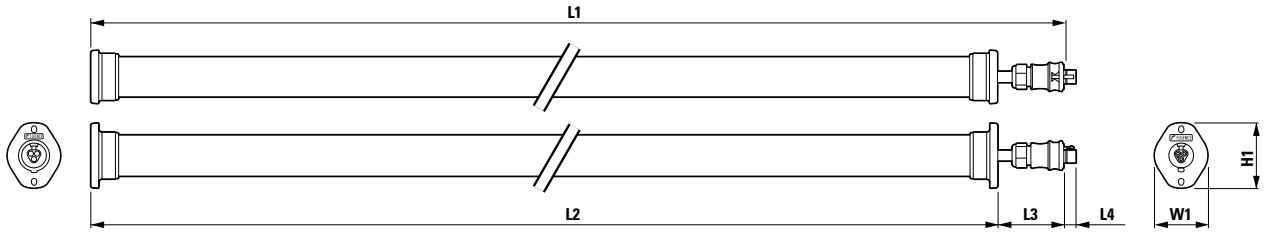
Technical specifications

Product description	Voltage	Nominal current @ 200V	Nominal current @ 277V	Nominal current @ 400V	Power	Photon flux	Typical efficacy
	(V~)	(A)	(A)	(A)	(W)	(µmol/s)	(µmol/J)
VYNE 2 module							
VYNE2 300 BP6 L250 200-400V	200-400	0.49	0.35	0.25	98	300	3.1
VYNE2 240 BP6 L200 200-400V	200-400	0.39	0.28	0.20	78	240	3.1

Legend:
BP6 = Broad R6 L = Length

Technical details	Parameter	Value
Frequency	f	50-60 Hz
Power factor	PF	> 0.9
Inrush current	I inrush	< I nominal / negligible
Residual current	RC	< 0.5 mA
Throughput current	I throughput	≤ 20 A
Through wiring	AWG / cross section	14 / 2.08 mm²
Total impedance of through wiring	Z	< 60 mΩ per module
Total harmonic distortion	THD	< 15%
Protection against electric shock (IEC61140)		Class II / ⧈

Dimensions



Product name	Product dimensions (mm)						Product weight
	L1 ± 10mm	L2	L3 ± 10mm	L4	W1	H1	
VYNE2 240 BP6 L200	2028	1948	80	15	65	79	2.2
VYNE2 300 BP6 L250	2500	2420	80	15	65	79	2.5

Environmental ratings

Description	Parameter	Value	
Ambient storage temperature	$T_{storage}$	-20 - 85 °C	-4 - 185 °F
Ambient operating temperature	$T_{operating}$	0 - 40 °C	40 - 104 °F
Max. case temperature @$T_{ambient}$ = 25 °C / 77 °F	T_{case}	38 °C	100 °F
Relative humidity, non-condensing @ storage, operation and application	RH	5 - 95 %	
Product lifetime @$T_{ambient}$ = 25 °C / 77 °F	Q90	36000 hrs	
Ingress protection rating		IP66	
UL/CSA rating		wet locations	

⚠ Important

Influencing factors of light output
As ambient temperature increases, both the photon flux and the photon flux maintenance will decrease. Pollution or damage of optics will also impact the light output.

Thermal protection
The VYNE 2 module has a built-in thermal protection device. If the temperature of the module exceeds 70 - 75 °C / 158 - 167 °F, the module will blink a few times and then shut off. After cooling down, the module will switch on again automatically.

Photobiological hazard
Photobiological safety of lamps and lamp systems (IEC/EN 62471).

This International Standard describes the photobiological safety of lamps and lamp systems including luminaires.
The rating of the VYNE 2 according to this standard can be found in the technical specifications. Mind a safe application, or wear protection glasses, which filter out blue radiation (400-500 nm).

Light source not replaceable
If the product becomes damaged, or the light source reaches its end-of-life, the whole fixture needs to be replaced. The external flexible cable or cord of this luminaire cannot be replaced; if the module or cord is damaged, the luminaire shall be disposed as electronic waste.

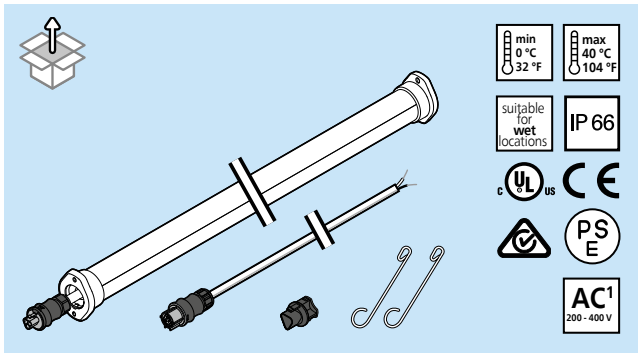
For indoor use only
The VYNE 2 modules are not suited to outdoor use and are not intended to be installed in stairways and horizontal travel paths.

Mechanical Installation

Important

Turn off and disconnect the power before installation. Installation must be performed by a qualified electrician in accordance with all national and local electrical and construction codes and regulations.

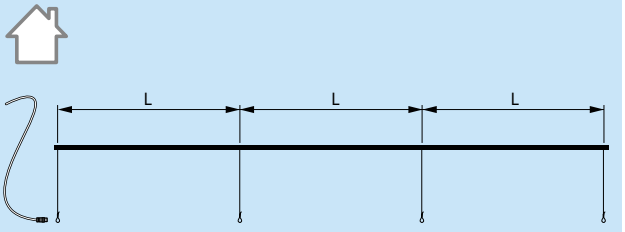
- **DO NOT** attempt to install or use until you have read and understood the installation instructions of this product contained in the Quick Installation Guide, this Application Guide and safety labels.
- Make sure that power cables are routed in a manner that will prevent incidental damage.
- Make sure all junction boxes are mounted to a rigid structure.
- Use wet-rated (IP66) junction boxes which are also suitable for the power cables used in the application.
- Use a strain-relief or power cable grip if needed.
- Use a cord grip suitable for use with three conductor and type off cord suitable for the trade size of the junction box provided by others, if needed.
- **DO NOT** connect to live power until installation is complete.
- **DO NOT** modify or alter the product; doing so will void the warranty.



Unpacking
For the installation of the VYNE 2 you need the following Fluence items:
- VYNE 2 module(s)
- VYNE 2 power cable(s)
- VYNE 2 mounting brackets
- VYNE 2 end cap(s)

Depending on the application, you may need additional modules and/or accessories.

1 The voltage range is specific for each product and specifically mentioned on the product label. For Japan/PSE, only 200V.

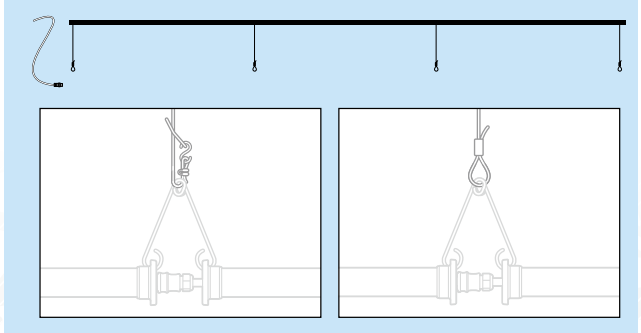


L: 2500 mm or 2028 mm

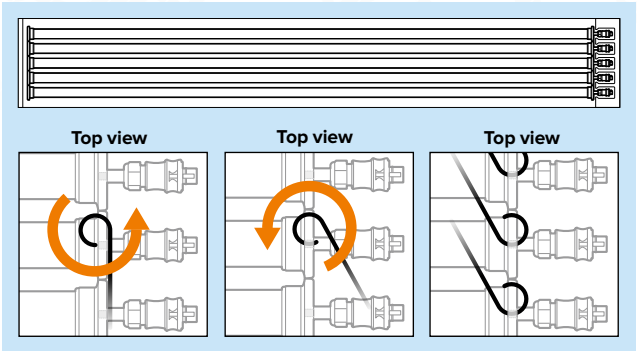
Preparation
When installing the VYNE 2, two steel suspension cables are required per VYNE 2 module, mounted onto the greenhouse structure at a distance L of 2500 mm or 2028 mm (based on the 250 or 200 version). The structure must be able to support the weight of the complete VYNE 2 installation.
A VYNE 2 power cable must be present at the start of each VYNE 2 line.

Additional information:

Calculating number and length : Page 9
Effect on length in case of a central power supply : Page 8
Max nr of interconnected modules : Page 11 - Electrical installation

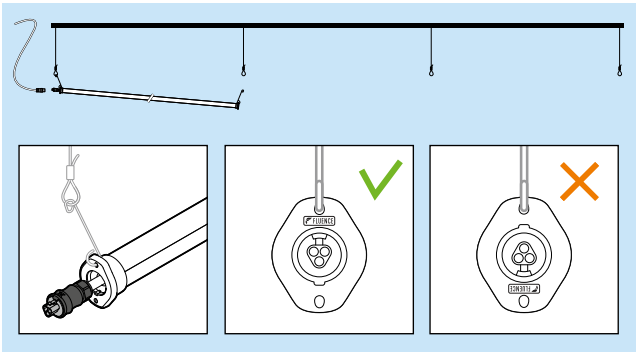


Adaptable or fixed height
If the height of the VYNE 2 has to be adaptable to the growth of your crop, then additional mounting/suspension requirements apply. A steel cable adjuster (left figure) is an option. If the height of the VYNE 2 is fixed, a wire loop (right figure) is sufficient.



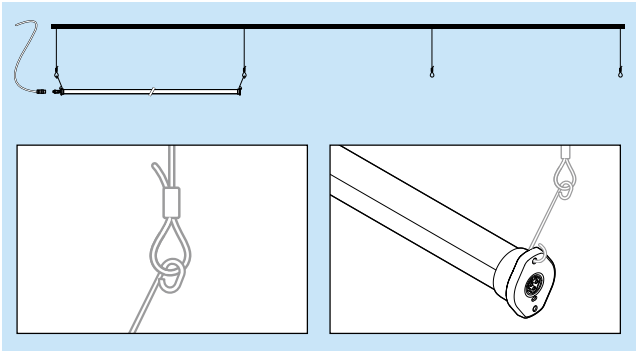
Installing the VYNE 2 bracket
The VYNE 2 modules arrive in a box, containing 5 pieces. Open the box and make sure that all Fluence logos on the endcaps are located on top. Insert one VYNE 2 mounting bracket in each top mounting hole.

Hold the mounting bracket in a horizontal position to the outside of the module, with the loop aligned with the mounting hole. Rotate the mounting bracket through the mounting hole.

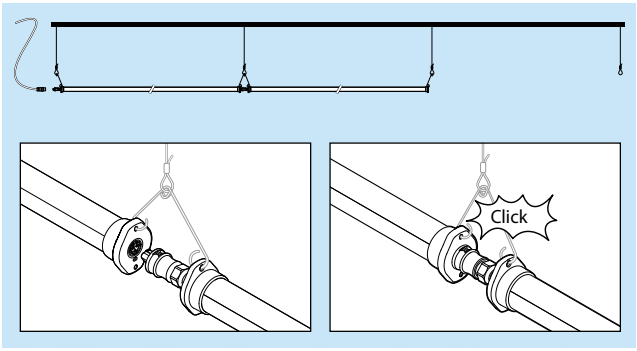


Mounting the first VYNE 2 module
Hook up the first VYNE 2 module to the first suspension cable, by pulling the first mounting bracket around the loop of the suspension cable.

Make sure that the male connector of the VYNE 2 module is directed towards the VYNE 2 power cable. Make sure that all Fluence logos are located on top. By locating all Fluence logos on top, you ensure having an easy connector click-and-fit daisy chain installation method (no turning or twisting of connectors needed).

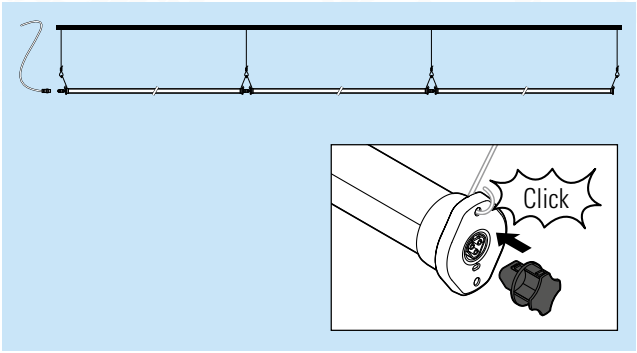


Hook up the other side of the first VYNE 2 module with the second mounting bracket around the loop of the second steel suspension cable.

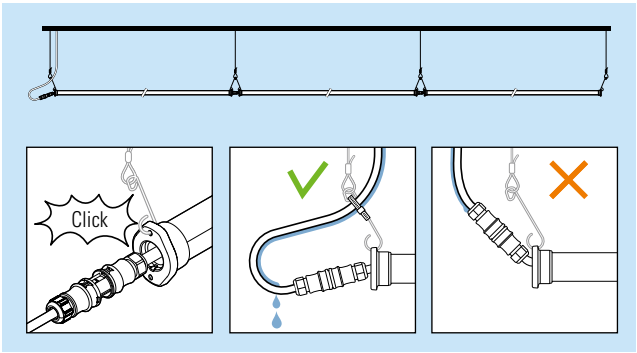


Mounting subsequent VYNE 2 module(s)
Hook up the second VYNE 2 module by means of the 3rd and 4th mounting bracket, to the 2nd and 3rd suspension cable. Connect both modules, verify that the male and female connector of these 2 modules are snapped together correctly **(CLICK)**.

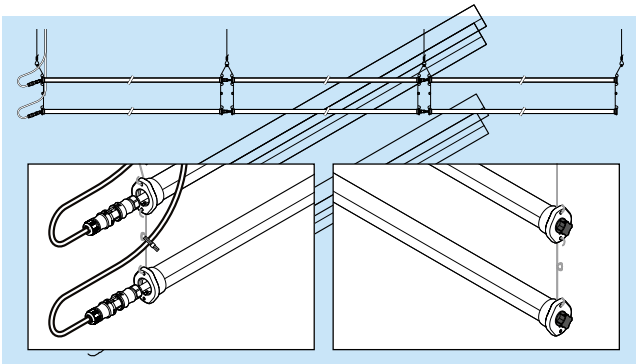
Repeat the previous steps until you have reached the end of the continuous line.



Closing the VYNE 2 line
Connect the plastic end cap to the female connector of the last module **(CLICK)**, to comply to IP66.

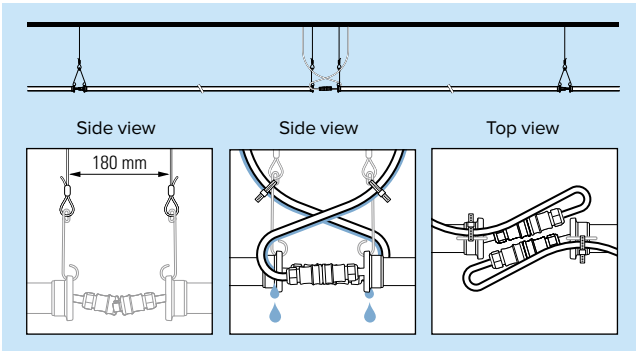


Electrical connection of the VYNE 2 line
Connect the female connector of the power cable to the male connector of the 1st module and verify that both connectors are snapped together correctly **(CLICK)**. Connect this power cable to the power grid. Make sure to relief the stress from the cable connections by introducing a loop and using cable ties. Both connectors are positioned almost horizontally during operation, the lowest point of the power cable is just below the lowest point of the male connector.



When mounting a double VYNE 2 line
After the single line is installed, hook up the mounting brackets on the bottom mounting holes of the end caps of the single line (Fluence logos on top).

Hook up the VYNE 2 bottom line, including brackets.
The vertical center to center distance between lines could be customized by choosing the preferred combination of mounting brackets: Page 10



If a central power supply is used
Install the left and right VYNE 2 line with their own steel suspension cables and separate power cables. The horizontal distance between the first suspension cables of both lines must be 180mm. Follow all previous applicable steps (Page 7 & 8) to build and complete both lines.

Mechanical layout

Calculating number and length
The VYNE 2 module is available in two lengths.
By choosing the right combination of lengths, it is possible to light every row length in steps of 0.5 meters.

A	Start with the cultivated row length	L total	mtr	Total length of the cultivated row
B	Round down the L total to a whole or half meter	L rounded	mtr	Length of the cultived row, rounded down
C	Divide L rounded by 2.5 and round down to a whole number	A	pcs	Number of VYNE 2 modules 250
D	Multiply A by 2.5	L A	mtr	Length of the line with VYNE 2 modules 250
E	Subtract L A from L rounded	D	mtr	Rest of the cultivated row length to fill
	For D = 0 meter			Number of VYNE 2 modules 250 is calculated
	For D = 0.5 meter			Replace 3 VYNE 2 modules 250 with 4 VYNE 2 modules 200
	For D = 1.0 meter			Replace 2 VYNE 2 modules 250 with 3 VYNE 2 modules 200
	For D = 1.5 meter			Replace 1 VYNE 2 module 250 with 2 VYNE 2 modules 200
	For D = 2.0 meter			Add 1 VYNE 2 module 200

Important

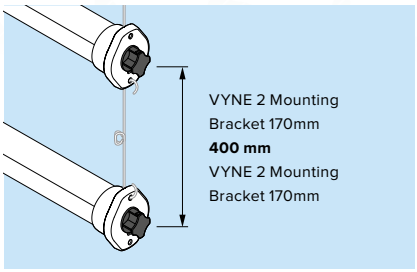
The almost horizontal position (see Installation chapter) of the VYNE 2 power cable connectors of the first VYNE 2 module results in an extra 0.1 meter to add to the length of the line.

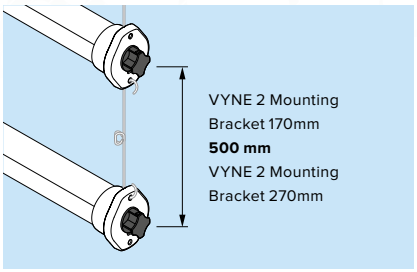
When using the VYNE 2 module 200, the actual length (2.028 meter) of this module results in an extra 0.028 meters to add to the length of the line for each applied VYNE 2 module 200.

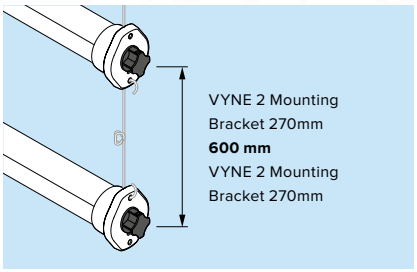
Check if the total length of the line including the VYNE 2 interlight modules, when taking the information above into account, still fits your application.

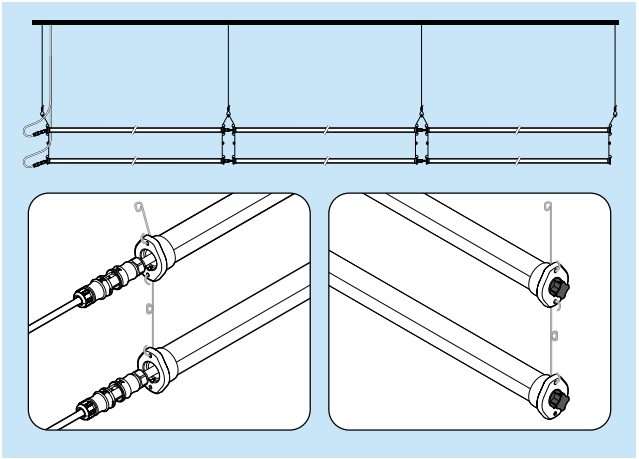
If it does not fit, shorten the total length of the line by 0.5 meter, by choosing a different combination of VYNE 2 modules.

Distance between VYNE 2 lines









For mounting the VYNE 2 lines, Fluence has two mounting brackets available:

The VYNE 2 Mounting Bracket 170mm has a total length of 171 mm.

The VYNE 2 Mounting Bracket 270mm has a total length of 271 mm.

The VYNE 2 Mounting Bracket 170mm is used for mounting a single line of VYNE 2 modules. When a double lines of VYNE 2 modules are installed, the lower line will be attached to the upper one.

The table below shows the vertical distances and their associated combination of mounting brackets.

VYNE 2 bracket 1	VYNE 2 bracket 2	Distance between VYNE 2 lines (center to center)
VYNE 2 Mounting Bracket 170mm	VYNE 2 Mounting Bracket 170mm	400 mm
VYNE 2 Mounting Bracket 170mm	VYNE 2 Mounting Bracket 270mm	500 mm
VYNE 2 Mounting Bracket 270mm	VYNE 2 Mounting Bracket 270mm	600 mm

If a customised distance is requested, please contact your Fluence representative and ask about the options.

Electrical connection

Warning

There are several options for connecting the VYNE 2 modules to the mains, between 200 V~ and 400V~, and determining the maximum number of interconnected modules, which mainly depends on the power consumption of the VYNE 2 module, the number of circuit breakers, the circuit breaker type (1-pole/2-pole/3-pole or 4-pole), the tripping current of the circuit breakers, the cross-section (mm^2) and material of the cable conductors, the total length of the cable conductors and the use of an earth leakage protection (RCD)[1] . Examples for the maximum number of interconnected modules, are presented below. **These tables only give indication about the maximum allowed interconnected 2.5m version VYNE 2 modules, without the use of power or jumper cables. This, based on the distinction between limitation by power and limitation by protected (against short-circuit) conductor length.**

Always check the maximum allowed/protected cable length[1]. A certified electrical installer must make the final decision, in accordance with all applicable international, national and local electrical and construction codes, norms and regulations.

Examples of max nr. of interconnected modules Fluence VYNE 2

Europe & Asia					VN2 20 (78W)				VN 2 25 (98W)			
					Limited by Power		Limited by Length		Limited by Power		Limited by Length	
Area	Mains voltage (V~)	System configuration	Circuit breaker (A)	Circuit breaker configuration type	Max nr mods/ phase pair	Max nr mods total	Max nr mods/branch		Max nr mods/ phase pair	Max nr mods total	Max nr mods/branch	
							B-type	C-type			B-type	C-type
Europe	400	L-L	16	1x3P	37	111	89	44	30	90	71	35
Europe	400	L-L	16	3x2P	65	195	89	44	52	156	71	35
Europe	400	L-L	20	1x3P	47	141	71	35	37	111	57	28
Europe	400	L-L	20	3x2P	82	246	71	35	65	195	57	28

North America					VN 2 20 (78W)			VN 2 25 (98W)		
					Limited by Power		Limited by Length	Limited by Power		Limited by Length
Area	Mains voltage (V~)	System configuration	Circuit breaker (A)	Circuit breaker configuration type	Max nr mods/ phase pair	Max nr mods total	Max nr mods/branch	Max nr mods/ phase pair	Max nr mods total	Max nr mods/branch
US	277	L-N	15	1x4P	42	126	26	33	99	26
Canada	347	L-N	15	1x4P	53	159	35	42	126	33

Legend:

L = Line
P = Phase
N = Neutral

3P = 3 phase breaker type
2P = 2 phase breaker type
4P = 3 phase + neutral breaker type

RCD = Residual-Current Device
VN2 20 = high output (200-400V input)
VN2 25 = high output (200-400V input)

1 A multiplication factor of √3 can be used for determining the maximum protected cable length, if short circuit between Line-Protective Earth or Line-Earth is not possible (IEC 60364).

Examples of max nr. of interconnected modules Fluence VYNE 2

Europe & Asia					VN 2 20 (78W)				VN 2 25 (98W)			
					Limited by Power		Limited by Length		Limited by Power		Limited by Length	
Area	Mains voltage (V~)	System configuration	Circuit breaker (A)	Circuit breaker configuration type	Max nr mods/ phase pair	Max nr mods total	Max nr mods/branch		Max nr mods/ phase pair	Max nr mods total	Max nr mods/branch	
							B-type	C-type			B-type	C-type
Europe	230	L-N	16	1x4P	37	111	41	20	30	90	41	20
Europe	230	L-N	20	1x4P	47	141	33	16	37	111	33	16
Australia	240	L-N	15	1x4P	36	108	46	23	29	87	46	23

North America					VN 2 20 (78W)			VN 2 25 (98W)		
					Limited by Power		Limited by Length	Limited by Power		Limited by Length
Area	Mains voltage (V~)	System configuration	Circuit breaker (A)	Circuit breaker configuration type	Max nr mods/ phase pair	Max nr mods total	Max nr mods/branch	Max nr mods/ phase pair	Max nr mods total	Max nr mods/branch
US	208	L-L	15	1x3P	18	54	19	14	42	19
US	208	L-L	20	1x3P	24	72	14	19	57	14
US	208	L-L	15	3x2P	32	96	19	25	75	19
US	240	L-L	15	1x3P	21	63	23	16	48	23
US	240	L-L	15	3x2P	36	108	23	29	87	23
US	240	L-L	20	1x3P	28	84	17	22	66	17

Japan					VN2 20 (78W)			VN2 25 (98W)		
					Limited by Power		Limited by Length	Limited by Power		Limited by Length
Area	Mains voltage (V~)	System configuration	Circuit breaker (A)	Circuit breaker configuration type	Max nr mods/ phase pair	Max nr mods total	Max nr mods/branch	Max nr mods/ phase pair	Max nr mods total	Max nr mods/branch
Japan	200	L-L	15	1x3P	17	51	19	14	42	19
Japan	200	L-L	15	3x2P	30	90	19	24	72	19

Legend:

L = Line
P = Phase
N = Neutral

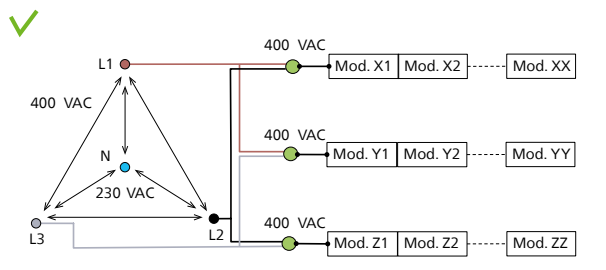
3P = 3 phase breaker type
2P = 2 phase breaker type
4P = 3 phase + neutral breaker type

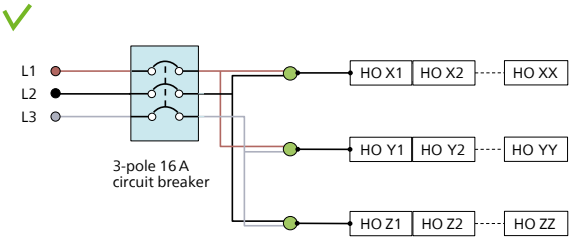
RCD = Residual-Current Device
VN2 20 = VYNE2 2.0 m
VN2 25 = VYNE2 2.5 m

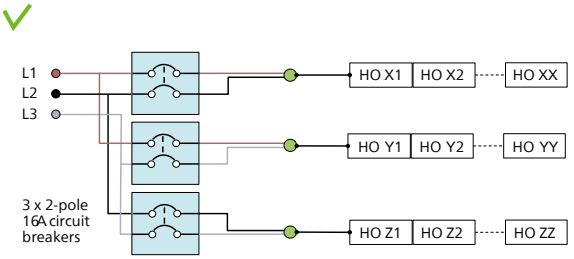
1 A multiplication factor of √3 can be used for determining the maximum protected cable length, if short circuit between Line-Protective Earth or Line-Earth is not possible (IEC 60364).

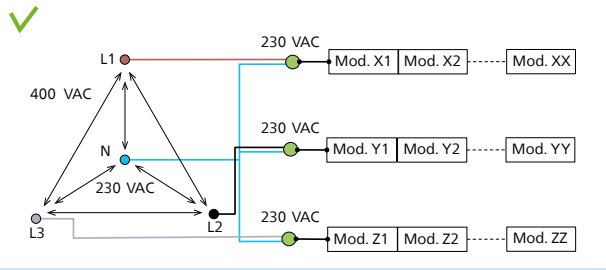
Connection examples Europe & Asia

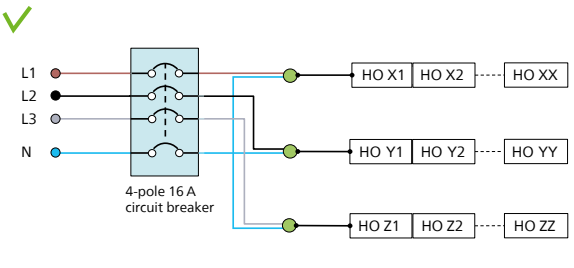
400 VAC power grid



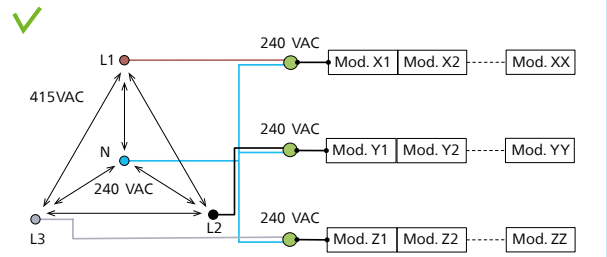


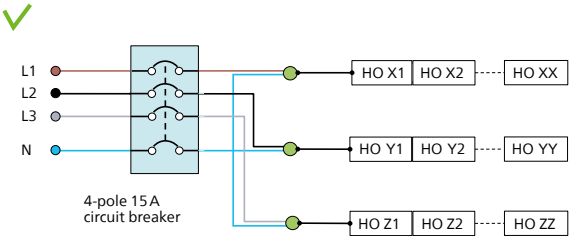


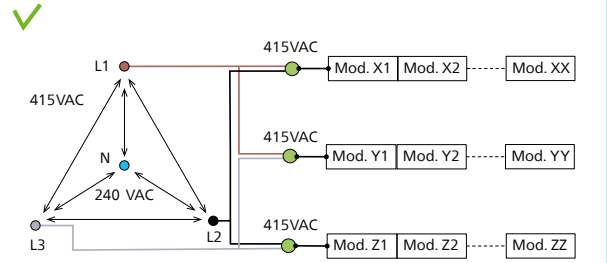




415 VAC power grid Australia

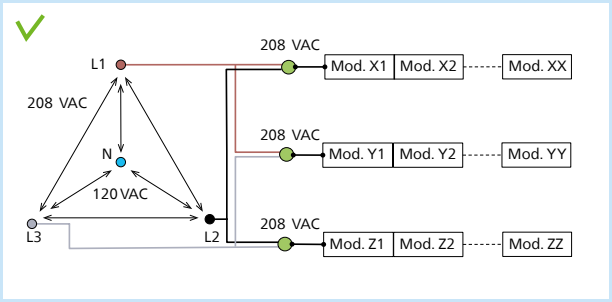


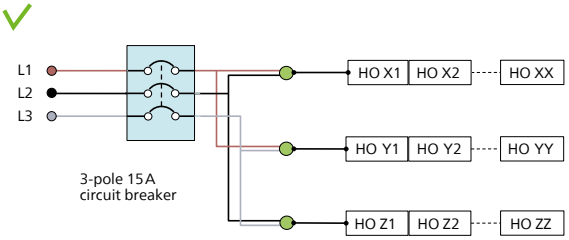


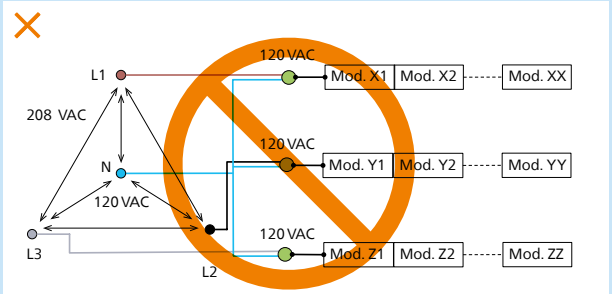


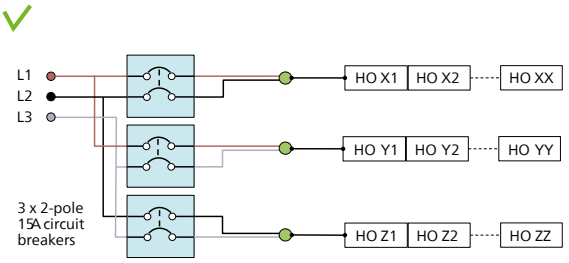
Connection examples North America

208 VAC power grid USA

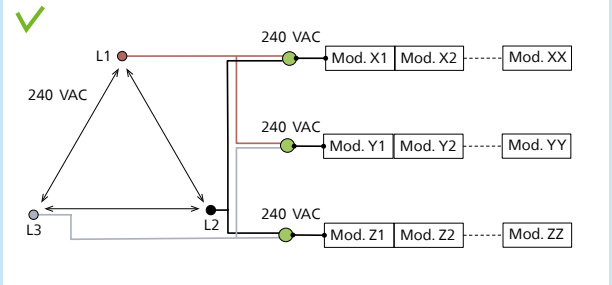


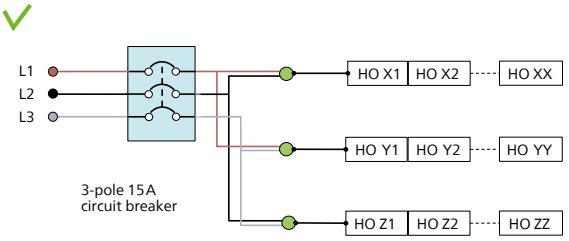


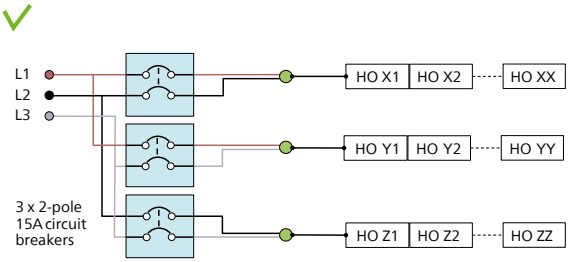




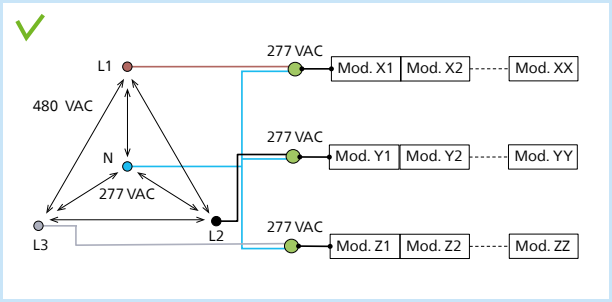
240 VAC power grid USA Canada

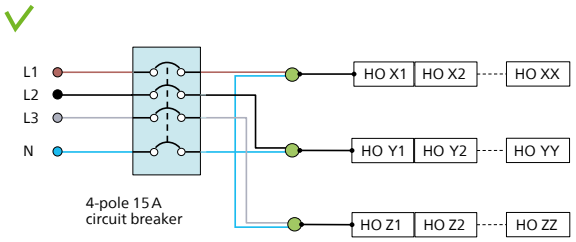


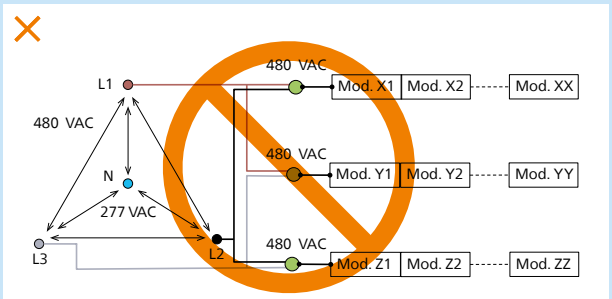




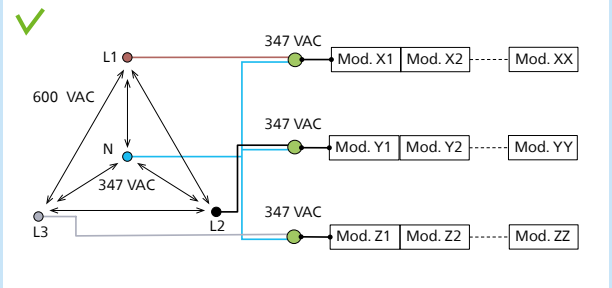
480 VAC power grid USA Canada

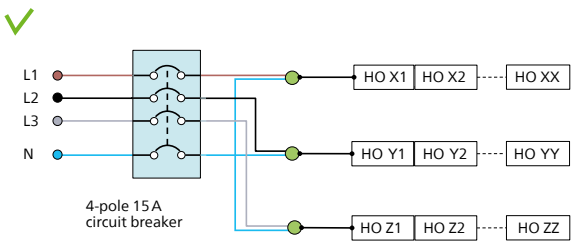


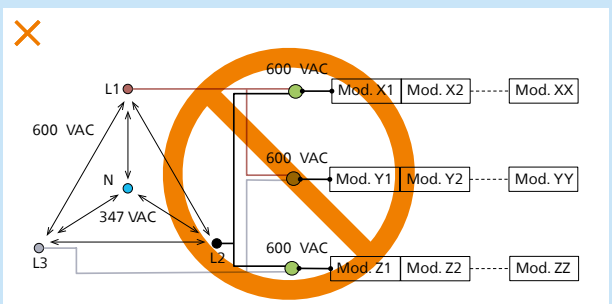




600 VAC power grid Canada

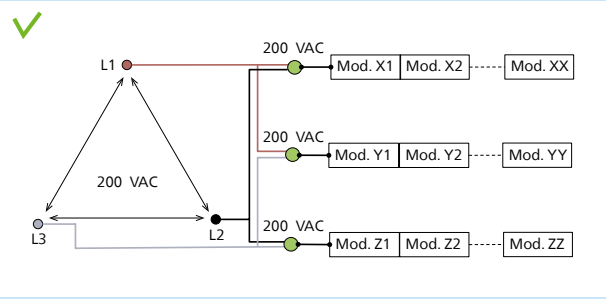


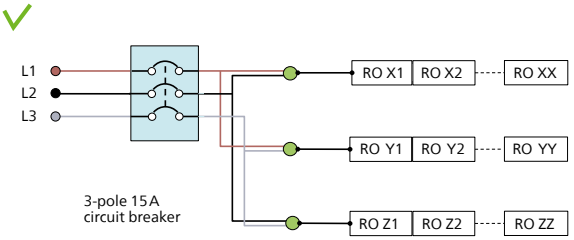


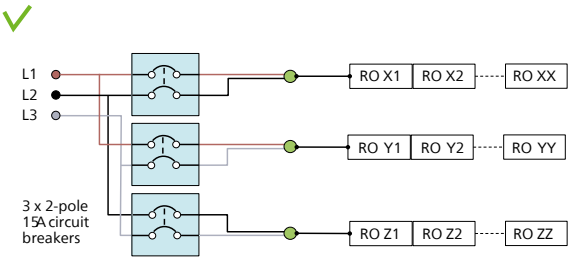


Connection examples Japan

200 VAC power grid Japan







Ordering data Europe & Asia

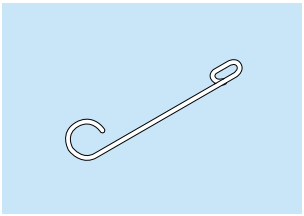
Modules

Product description	12 NC	MOQ (pcs)	Box dimensions
VYNE2 300 BP6 L250 200-400V	929003965186	5	207x38.5x9
VYNE2 240 BP6 L200 200-400V	929003965188	5	207x38.5x9

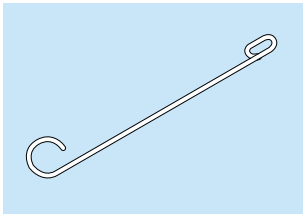
Accessories

Product description	12 NC	MOQ (pcs)	Box dimensions
Mounting bracket for VYNE 2 module			
VYNE2, Mounting Bracket, 170mm, BP	929003965384	250	30x20x20
VYNE2, Mounting Bracket, 270mm, BP	929003965385	250	30x20x20
Female connector for VYNE 2 module			
VYNE2, Female Connector, 1.5, BP	929003965390	100	29.6x24.4x19.4
VYNE2, Female Connector, 1.6, BP	929003965391	100	29.6x24.4x19.4
Power cable for VYNE 2 module			
VYNE2, Power Cable, 5.5.25L650, BP	929003965386	6	40x30x20
Jumper cable for VYNE 2 module			
VYNE2, Jumper Cable, 4.5.25L100, BP	929003965388	15	40x30x20
End cap for VYNE 2 module			
VYNE2, Dust/End Cap, Wieland Grn, BP	929003965392	100	20.5x15.4x5.0

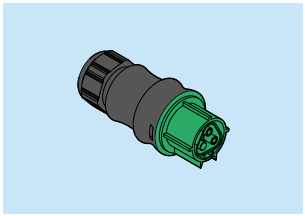
Legend:
L = Length
S = Static
MOQ = Minimum Order Quantity



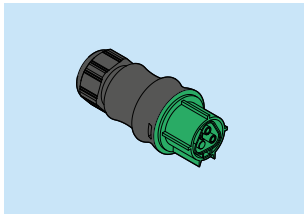
VYNE2, Mounting Bracket, 170mm, BP



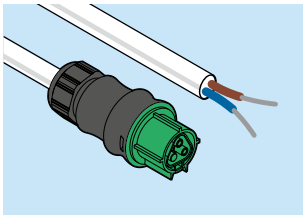
VYNE2, Mounting Bracket, 270mm, BP



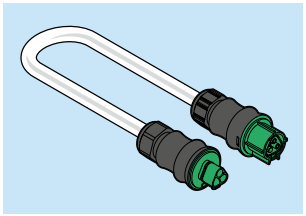
VYNE2, Female Connector, 1.5, BP
for cable diameter 6-10 mm



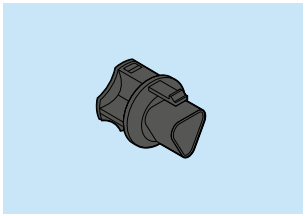
VYNE2, Female Connector, 1.6, BP
for cable diameter 10-14 mm



VYNE2, Power Cable, 5.5.25L650, BP
2 x 2.5 mm², length 6.5 meters
90 mm secondary insulation removed
8 mm primary insulation removed
pre-tinned wire ends



VYNE2, Jumper Cable, 4.5.25L100, BP
2 x 2.5 mm², length 1.0 meter



VYNE2, Dust/End Cap, Wieland Grn, BP

Ordering data North America

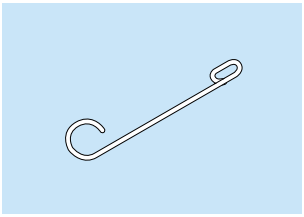
Modules

Product description	12 NC	MOQ (pcs)	Box dimensions
VYNE2 300 BP6 L250 200-400V	929003965186	5	207x38.5x9
VYNE2 240 BP6 L200 200-400V	929003965188	5	207x38.5x9

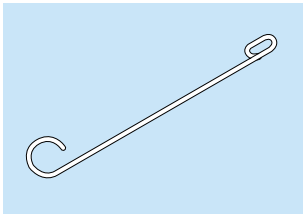
Accessories

Product description	12 NC	6 NC	MOQ (pcs)	Box dimensions
Mounting bracket for VYNE 2 module				
VYNE2, Mounting Bracket, 170mm, BP	929003965384	327080	250	30x20x20
VYNE2, Mounting Bracket, 270mm, BP	929003965385	327098	250	30x20x20
Power cable for VYNE 2 module				
VYNE2, Power Cable, 5.5.3L650, BP	929003965387	325894	6	40x30x20
Jumper cable for VYNE 2 module				
VYNE2, Jumper Cable, 4.5.3L100, BP	929003965389	325902	15	40x30x20
End cap for VYNE 2 module				
VYNE2, Dust/End Cap, Wieland Grn, BP	929003965392	303966	100	20.5x15.4x5.0

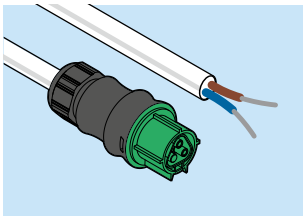
Legend:
L = Length
S = Static
MOQ = Minimum Order Quantity



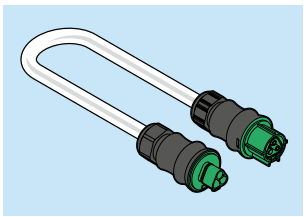
VYNE2, Mounting Bracket, 170mm, BP



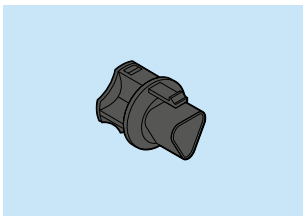
VYNE2, Mounting Bracket, 270mm, BP



VYNE2, Power Cable, 5.5.3L650, BP
AWG 14, length 6.5 meters
90 mm secondary insulation removed
8 mm primary insulation removed
pre-tinned wire ends



VYNE2, Jumper Cable, 4.5.3L100, BP
AWG 14, length 1.0 meter



VYNE2, Dust/End Cap, Wieland Grn, BP

Ordering data Japan

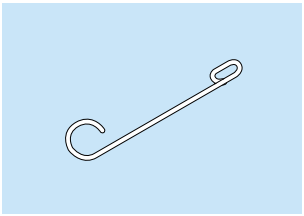
Modules

Product description	12 NC	MOQ (pcs)	Box dimensions
VYNE2 300 BP6 L250 200-400V	929003965186	5	207x38.5x9
VYNE2 240 BP6 L200 200-400V	929003965188	5	207x38.5x9

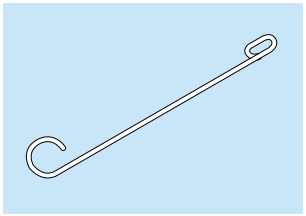
Accessories

Product description	12 NC	MOQ (pcs)	Box dimensions
Mounting bracket for VYNE 2 module			
VYNE2, Mounting Bracket, 170mm, BP	929003965384	250	30x20x20
VYNE2, Mounting Bracket, 270mm, BP	929003965385	250	30x20x20
Female connector for VYNE 2 module			
VYNE2, Female Connector, 1.5, BP	929003965390	100	29.6x24.4x19.4
VYNE2, Female Connector, 1.6, BP	929003965391	100	29.6x24.4x19.4
Power cable for VYNE 2 module			
VYNE2, Power Cable, 5.5.25L650, BP	929003965386	6	40x30x20
Jumper cable for VYNE 2 module			
VYNE2, Jumper Cable, 4.5.25L100, BP	929003965388	15	40x30x20
End cap for VYNE 2 module			
VYNE2, Dust/End Cap, Wieland Grn, BP	929003965392	100	20.5x15.4x5.0

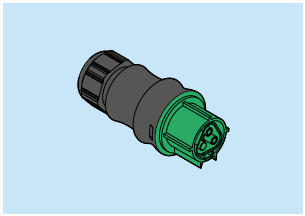
Legend:
L = Length
S = Static
MOQ = Minimum Order Quantity



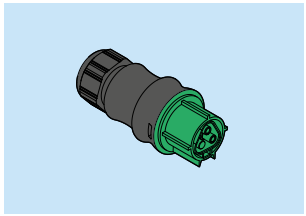
VYNE2, Mounting Bracket, 170mm, BP



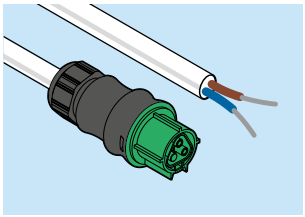
VYNE2, Mounting Bracket, 270mm, BP



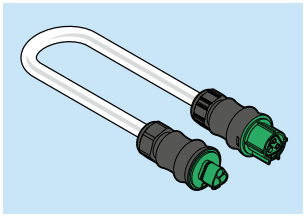
VYNE2, Female Connector, 1.5, BP
for cable diameter 6-10 mm



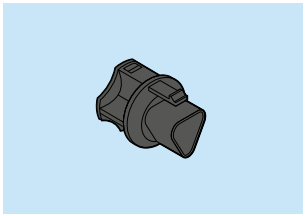
VYNE2, Female Connector, 1.6, BP
for cable diameter 10-14 mm



VYNE2, Power Cable, 5.5.25L650, BP
AWG 14, length 6.5 meters
90 mm secondary insulation removed
8 mm primary insulation removed
pre-tinned wire ends



VYNE2, Jumper Cable, 4.5.25L100, BP
AWG 14, length 1.0 meter



VYNE2, Dust/End Cap, Wieland Grn, BP

Crop protection and cleaning products

Use of cleaning agents, crop-protection products and other chemicals (e.g. pesticides, fungicides and insecticides)
Fluence products are engineered to meet the highest standards in daily usage and are compatible with the most commonly used cropprotection products and cleaning agents in the field. However, if crop-protection products and cleaning agents are used in concentrations above the values prescribed by the supplier(s) of such crop-protection products and/or cleaning agents, this may damage the protective surfaces of the Fluence products, which will render the warranty invalid.

Please ensure that you take the following instructions into account when cleaning the Fluence products and your facility, or when using crop protectors.

Cleaning Fluence products
- Turn off and disconnect the power before cleaning the product.
- Use a soft damp cloth and a cleaning agent, e.g. green/soft soap or ethanol, to remove dust or dirt from the Fluence product.
- Do not use rough or coarse-grained materials, scouring pads, bleach or solvents, as they could scratch or damage the Fluence product.
- Do not wipe the Fluence product with a dirty cloth as this may leave a residue, scratch the lenses or reduce the light output.
- The use of a non-approved cleaning agent or solvent could scratch or damage the Fluence product.
- The Fluence product has an IP66 rating which means that water jets with a pressure of maximum 1 bar can be used. Do NOT clean the Fluence VYNE 2 product with high pressure waterpower jets.

Contamination of the light emitting surface
To keep the maximum amount of light for your crop and the optimal performance of your light source during the entire lifetime, you must clean your Fluence products on a regular basis. Keeping the light emitting surface clean will enable you to get the maximum yield and quality of your crop. Cleaning is also required to maximize the useful life of your Fluence product.

Contamination of the light emitting surface will reduce the light-output of the Fluence product. A seemingly limited amount of dirt can already cause a significant reduction of the light output, even up to 15%. By cleaning the light emitting surface regularly, reduction of the light output can be prevented. Dirt on the light emitting surface absorbs light which will lead to an increase in the temperature of the product. This has a negative impact on the lifetime of the product.

By cleaning the light emitting surface, the useful lifetime of your Fluence product will be optimal. Overdue or inadequate cleaning maintenance may void the warranty obligations of Signify.

Important
- Plan regular inspections for your Fluence products. Be aware, seemingly low levels of contamination on the light emitting surface, that may not be directly visible from a larger distance, already have a negative impact on performance.
- Clean the light emitting surface on a regular basis according to the cleaning instructions.

Compliance with international standards

The Fluence VYNE 2 has been tested for and complies with the following international standards:

Test	Stress type	Standard
Mechanical integrity	Static cable pull	
	Dynamic cable pull	
	Bump test	IEC 60068-2-29 Eb
	Vibration test	IEC 60068-2-6
Endurance	Cold temperature storage	IEC 60068-2-1 Ab
	High temperature storage	IEC 60068-2-2 Bb
	Damp heat (temp. humidity)	IEC 60068-2-30 Db
	Temperature shock	IEC 60068-2-14 Nb
	Ingress protection	IEC 60529 IP66
Quality / Environment	Environmental standard	ISO 14001
	Toxic materials	RoHS
EMC	Generated disturbances to the environment	EN55015
		IEC 61000-3-2
		IEC 61000-3-3
		FCC part 15B: Class A
		Ansi C63.4:2014
	Immunity	EN61547
Safety		ANSI/CAN/UL 8800
		IEC62471
		IEC60598-1
		IEC60598-2-1
Approval marks	Approval marks GreenPower LED production module	ENEC
	Declaration of conformity	CE
		CSA
		PSE
		UL
		RCM (for fixtures delivered to AU and NZ)

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www.fluence-led.com