LED FLEX NEON

Ocean Silicon Series

VALS LIGHTING®

DESCRIPTION

Fully extrusion LED flexible neon, IP68 protection, specially in-feed system and end cap design enable a dot-free alignment of numerous fixtures for a homogeneous light line with uninterrupted illumination.

3m dive water

IP68 protection

3 years[1] warranty

KEY FEATURES

- High output and absolutely homogeneous illumination and dot-free light surface.

- Suitable for submersion max 3 m water deep.

- Resistant to water, saltwater, UV radiation, sunlight, and chlorine.

- Offering endless lines of light, the overlap between 2 runs is barely visible, making the light emmision over long run lengths.
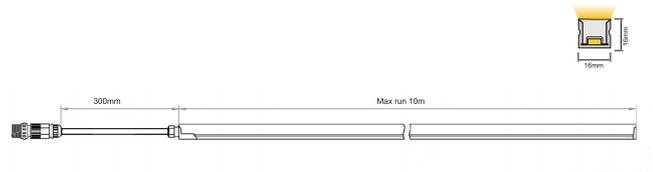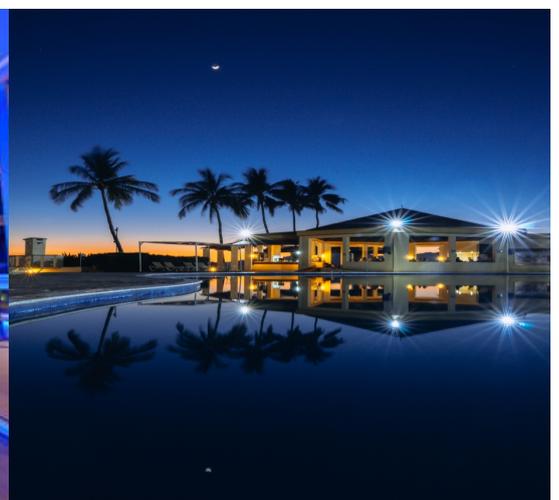
1 : 5-year warranty if the neon be used in indoor and outdoor application

CE IP 68 IK08 (R-10V) 120° UV resistant OUTDOOR

300mm   Max run 10m

16mm
16mm

APPLICATIONS

- Facade and bridge lighting
- Fountain, SPAs and swimming pools
- Maritime sector and industrial applications
- Decorative lighting and architecture outline
- Contour, border lighting for indoor and outdoor
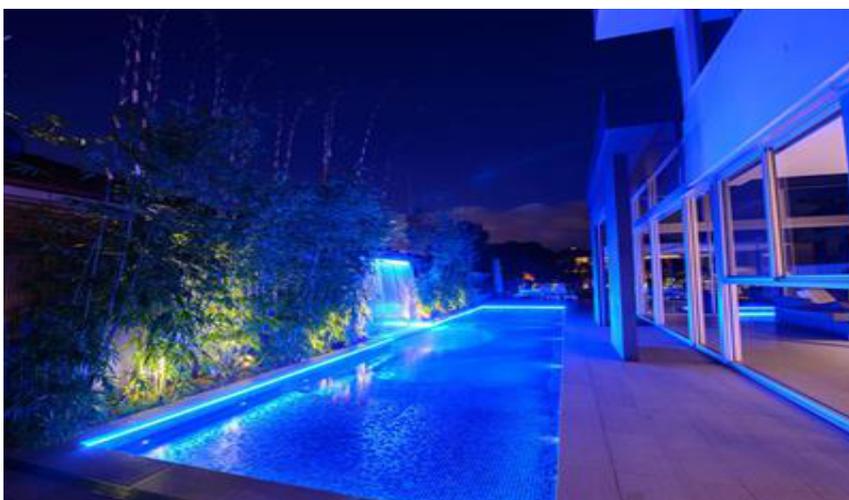
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SPECIFICATION LOGIC

FAMILY	POWER W/m	NOMINAL LENGTH	Light Color	INPUT VOLTAGE	CABLE ENTRY	IP RATING
VL-OSI1616-W	14W/m	Maximum length - 10m	MONO ○ TW ○ RGB ○ RGBW ○ DMX ○	24VDC	FF - Front + Front SS - Side + Side BB - Bottom + Bottom FX - Front + Closed SX - Side + Closed BX - Bottom + Closed	IP68

Order example: VL-OSI1616-W-10m-930K-SX

PRODUCT SPECIFICATIONS ○

		MONO
Electrical	Power	14W/m
	Input Voltage	24VDC
Physical	Minimum Length	Free-cut
	Width x Height	16mm x 16mm
	Body Finish	Premium silicone / white
	Bend Direction	Vertical (top bending)
	Bend Radius	150mm
	Cable Entry Options	Front, Side, Bottom
	Fixture Connections	IP68 injection-moulded input and end cap
Optical	LED Type	2835 LED
	Control Protocol	0-10V or PWM or Dali
	Lumen Output	731Lm/m(3000K) 770Lm/m(4000K) 855Lm/m(6500K)
	Efficacy	55Lm/W(CRI90, 4000K)
	Lumen Maintenance	L70B10@54,000 hours
Temperature Range	Storage Temperature	-25°Cmin, 60°Cmax
	Max Ambient Temperature	50°C
	Min Ambient Temperature	-25°C

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PRODUCT SPECIFICATIONS

		Tunable white
Electrical	Power	14W/m
	Input Voltage	24VDC
Physical	Minimum Length	Free-cut
	Width x Height	16mm x 16mm
	Body Finish	Premium silicone / white
	Bend Direction	Vertical (top bending)
	Bend Radius	150mm
	Cable Entry Options	Front, Side, Bottom
	Fixture Connections	IP68 injection-moulded input and end cap
Optical	LED Type	2835 LED
	Control Protocol	0-10V or PWM or Dali
	Lumen Output	350Lm/m(2700K) 770Lm/m(4000K) 385Lm/m(6500K)
	Efficacy	55Lm/W(CRI90, 4000K)
	Lumen Maintenance	L70B10@54,000 hours
Temperature Range	Storage Temperature	-25℃min, 60℃max
	Max Ambient Temperature	50℃
	Min Ambient Temperature	-25℃

PRODUCT SPECIFICATIONS

		RGB
Electrical	Power	14W/m
	Input Voltage	24VDC
Physical	Minimum Length	50mm
	Width x Height	16mm x 16mm
	Body Finish	Premium silicone / white
	Bend Direction	Vertical (top bending)
	Bend Radius	150mm
	Cable Entry Options	Front, Side, Bottom
	Fixture Connections	IP68 injection-moulded input and end cap
Optical	LED Type	4040 LED
	Control Protocol	PWM or Dali
	Lumen Output	RGB: 420Lm/m
	Efficacy	30Lm/W
	Lumen Maintenance	L70B10@54,000 hours
Temperature Range	Storage Temperature	-25℃min, 60℃max
	Max Ambient Temperature	50℃
	Min Ambient Temperature	-25℃

LED FLEX NEON

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PRODUCT SPECIFICATIONS		RGBW
Electrical	Power	14W/m
	Input Voltage	24VDC
Physical	Minimum Length	50mm
	Width x Height	16mm x 16mm
	Body Finish	Premium silicone / white
	Bend Direction	Vertical (top bending)
	Bend Radius	150mm
	Cable Entry Options	Front, Side, Bottom
	Fixture Connections	IP68 injection-moulded input and end cap
Optical	LED Type	5050 LED
	Control Protocol	PWM or Dali
	Lumen Output	RGBW: 490Lm/m
	Efficacy	35Lm/W
	Lumen Maintenance	L70B10@54,000 hours
Temperature Range	Storage Temperature	-25℃min, 60℃max
	Max Ambient Temperature	50℃
	Min Ambient Temperature	-25℃

PRODUCT SPECIFICATIONS		RGBW-SPI
Electrical	Power	14W/m
	Input Voltage	24VDC
Physical	Minimum Length	62.5mm
	Width x Height	16mm x 16mm
	Body Finish	Premium silicone / white
	Bend Direction	Vertical (top bending)
	Bend Radius	150mm
	No. of Pixels	16pixels/m, IC code UCS2903B
	Cable Entry Options	Front, Side, Bottom
	Fixture Connections	IP68 injection-moulded input and end cap
Optical	LED Type	5050 LED
	Control Protocol	SPI
	Lumen Output	RGBW: 434Lm/m
	Efficacy	31Lm/W
	Lumen Maintenance	L70B10@54,000 hours
Temperature Range	Storage Temperature	-25℃min, 60℃max
	Max Ambient Temperature	50℃
	Min Ambient Temperature	-25℃

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PRODUCT SPECIFICATIONS		RGBW-DMX
Electrical	Power	14W/m
	Input Voltage	24VDC
Physical	Minimum Length	62.5mm
	Width x Height	16mm x 16mm
	Body Finish	Premium silicone / white
	Bend Direction	Vertical (top bending)
	Bend Radius	150mm
	No. of Pixels	16pixels/m, IC code UCS 512H4LB
	Cable Entry Options	Front, Side, Bottom
	Fixture Connections	IP68 injection-moulded input and end cap
Optical	LED Type	5050 LED
	Control Protocol	DMX512
	Lumen Output	RGBW: 434Lm/m
	Efficacy	31Lm/W
	Lumen Maintenance	L70B10@54,000 hours
Temperature Range	Storage Temperature	-25°Cmin, 60°Cmax
	Max Ambient Temperature	50°C
	Min Ambient Temperature	-25°C

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CABLE ENTRY OPTION EXAMPLES

F-FRONT	S-SIDE-LEFT	S-SIDE-RIGHT	B-BOTTOM	SEAMLESS SPLICING
FX In	SLX In	SRX In	BX In	
FF Out In	SLSL Out In	SRSR Out In	BB Out In	

PROFILES AND MOUNTING OPTIONS

FIXED ALUMINUM PROFILE

	EXAMPLES OF INSTALLATION	PART NUMBER	DETAILS
17mm 18mm		1616-FAP-_____*MM	**FAP-** Fixed aluminum profile

BENDABLE STAINLESS STEEL PROFILE

	EXAMPLES OF INSTALLATION	PART NUMBER	DETAILS
17mm 17mm		1616-BSP-_____*MM	**BSP-** Bendable stainless steel profile

MOUNTING CLIPS

	EXAMPLES OF INSTALLATION	PART NUMBER	DETAILS
30mm 18mm 17mm		1616-MC	**MC-** Mounting clips

BENDING INSTRUCTION

			DO NOT TWIST
Bending in wave form - vertical	✓ >150mm Light emitting side	✓ Light emitting side >150mm	✓ Light emitting side
DO NOT bend in curve form - horizontal	✗ Light emitting side	✗ Light emitting side	✗ Light emitting side

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MONO

Input by one end

Max run.10m

Power Supply

AC 100-240V
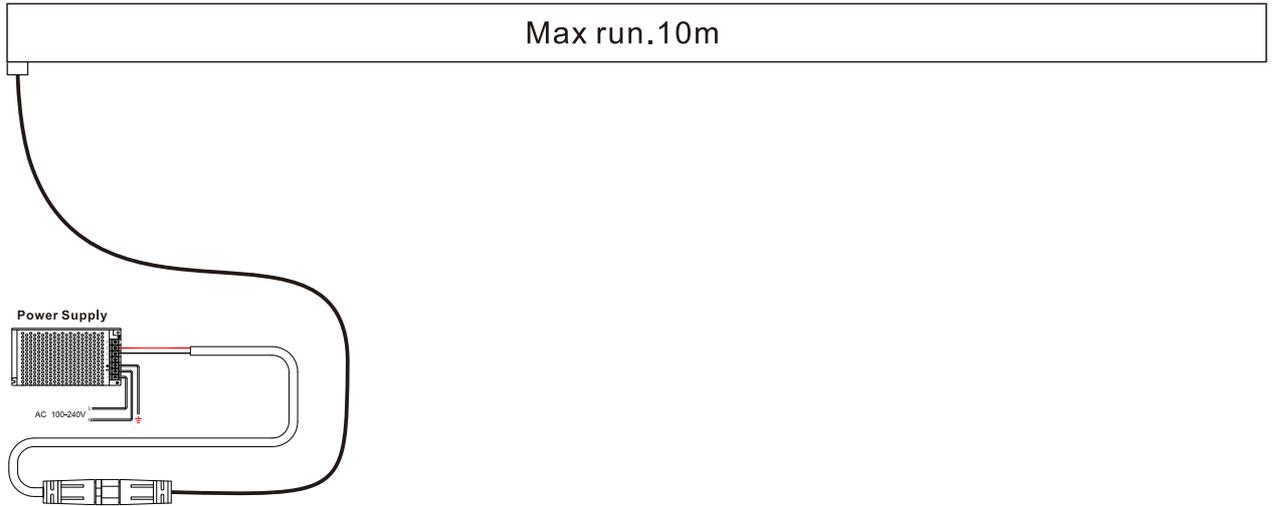
WIRING ELECTRICAL DIAGRAM

Tunable white
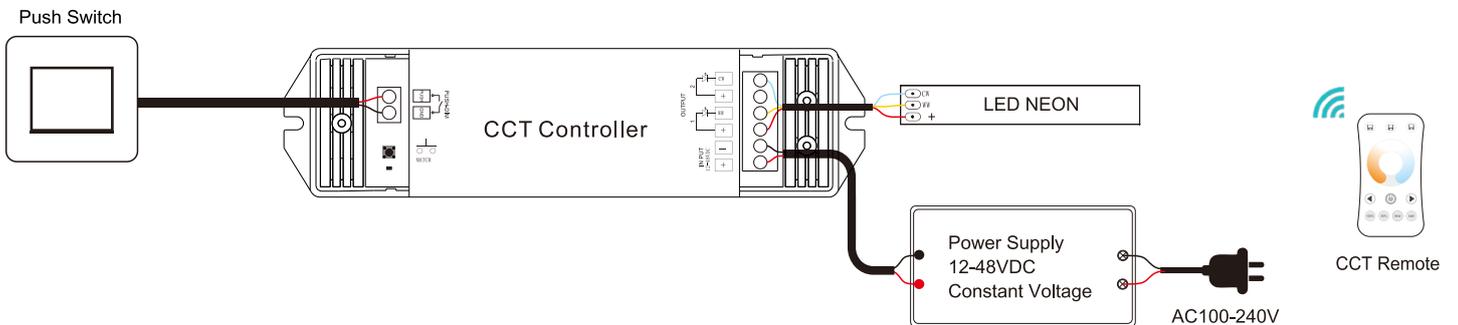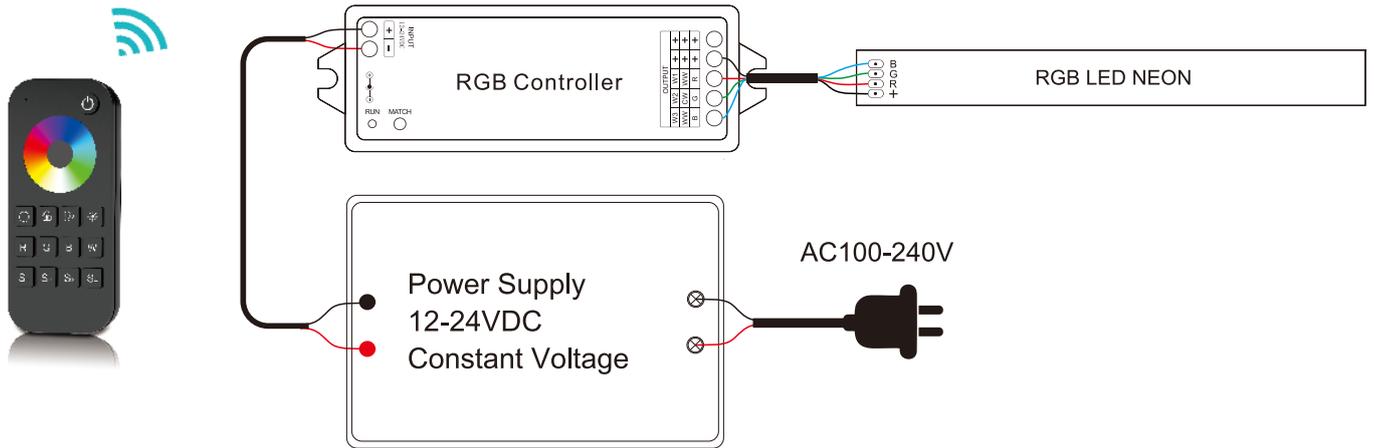
Push Switch

CCT Controller

OUTPUT

INPUT

LED NEON

Power Supply
12-48VDC
Constant Voltage

AC100-240V

CCT Remote

LED FLEX NEON

Ocean Silicon Series

WIRING ELECTRICAL DIAGRAM

RGB

RGB Controller

RGB LED NEON

Power Supply
12-24VDC
Constant Voltage

AC100-240V

WIRING ELECTRICAL DIAGRAM

RGBW

RGBW Controller

RGBW LED NEON

Power Supply
12-24VDC
Constant Voltage

AC100-240V

LED FLEX NEON

Ocean Silicon Series

WIRING ELECTRICAL DIAGRAM

RGBW-SPI

AC100-240V

Power Supply
5-24VDC
Constant Voltage

RUN

INPUT
5-24VDC

SPI CONTORLLER

OUTPUT
DATA

MATCH

Power Supply
5-24VDC

SPI Signal

V+
V-
DA

LED NEON

Power Supply
5-24VDC

SPI Signal

V+
V-
DA

LED NEON
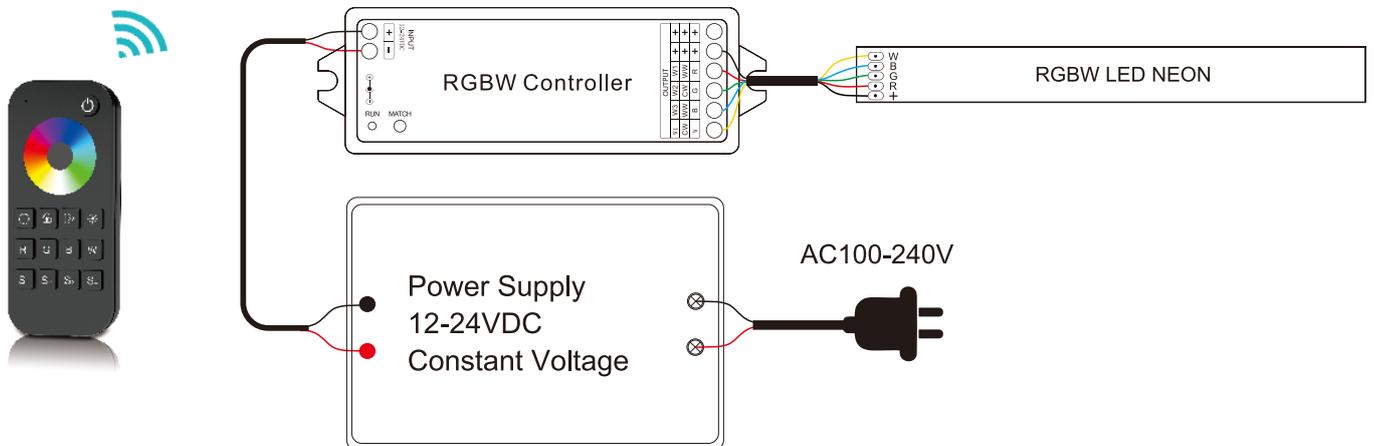
WIRING ELECTRICAL DIAGRAM

RGBW-DMX-Online

Master Controller

Network cable(distance max 100m)

Network cable(distance max 100m)

Slave Controller 001

SLAVE

Slave Controller 002

SLAVE

Slave Controller 040 (<10K pixels)

SLAVE

Network cable(distance max 100m)

Network cable(distance max 100m)

Network cable(distance max 100m)

Port 1   5m   5m   5m   5m   • • •   5m

Power Supply   Power Supply

5m   5m   5m   5m   • • •   5m

Power Supply   Power Supply

Port 2   5m   5m   5m   5m   • • •   5m

Power Supply   Power Supply

5m   5m   5m   5m   • • •   5m

Power Supply   Power Supply

LED FLEX NEON

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RGBW-DMX-Offline

DMX Controller

Network cable(distance max 100m)

5m   5m   5m   5m • • • 5m

Power Supply
AC 100~240V

5m   5m   5m   5m • • • 5m

Power Supply
AC 100~240V