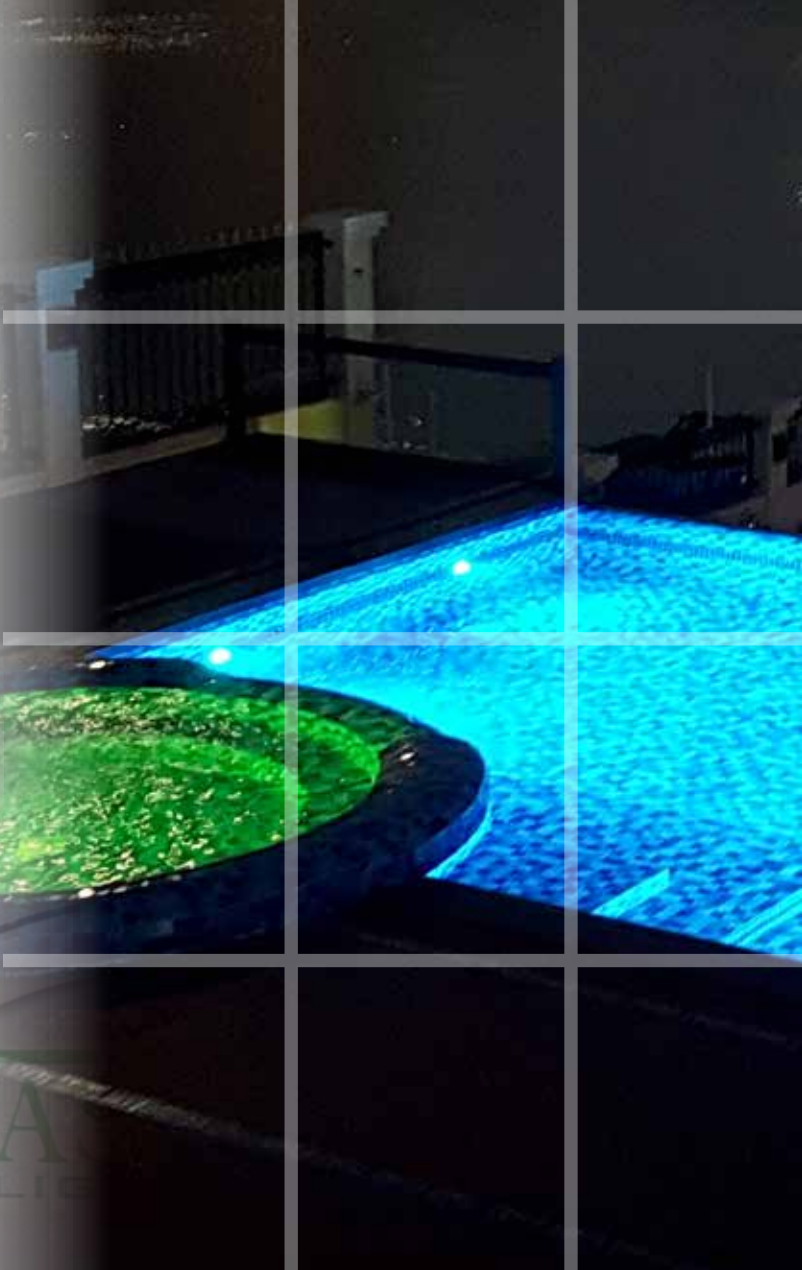


ASTEL
LIGHTING



UNDERWATER POOL LED LIGHTING
2018

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The **ASTEL LIGHTING** brand name was launched in 2009 as the result of very well accepted underwater marine lighting products fitted in luxury yachts.

The **METEOR** series of the new and world's first compact ultra-thin LED underwater pool light with built-in driver is designed to use the latest LED lighting technology.

The main feature is that **METEOR** lights can be installed on a flat surface without any surface preparation during construction. For other installations and replacements the special adapters are available.

The multi-color versions of **METEOR** series allow changing the color of lighting manually or automatically through the complete rainbow spectrum.

The **METEOR XP** series of the new extremely powerfull LED lights is basically designed for installation in large pools. The special designed niches allow standard installations in pools using different materials and finishes.

All the models are designed with stainless-steel casings.

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Underwater Pool LED Lights

Ultra-thin compact surface-mount design.

Single-color light control by using optional momentary switch or optional DMX512 interface LXU01 and PWM dimmer LDU13 with built-in ASTEL protocol.

Multi-color RGB light control with dimming and changing of color of lighting manually or automatically through the complete rainbow spectrum by using optional momentary switch or optional DMX512 interface LXU01 with built-in ASTEL protocol.



METEOR LSR0640

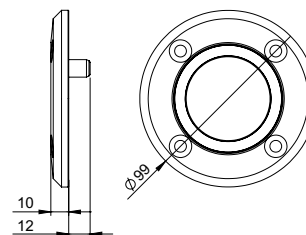
Power supply	12–24 Vdc, max. 680 mA/12 Vdc or 380 mA/24 Vdc
Beam angle	60° (standard)
Optical window	High-grade polycarbonate glass
Luminous flux	max. 950 lm (cool white)
Operating temperature	-10°C - +50°C
Casing	Stainless-steel (SAE316L)
Protection	IP 68
Dimensions	Ø99 x 10 mm
Weight	0.4 kg

Color of lighting

W	cool white
WW	warm white
B	blue
G	green
M	RGB multi-color

Beam angle

-	standard
D	wide



- Stainless-Steel Casing
- 6 Power LEDs Design
- Cool White, Warm White, Blue, Green and Multi-Color RGB Lighting
- High Grade Polycarbonate Glass Optical Window
- Vacuum Metalized Reflector
- Remote Control
- Microprocessor Control (network)
- Digital Dimming
- Polarity Protection
- Transient Protection
- Thermal Protection
- Low Power Consumption
- Simple Installation

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Underwater Pool LED Lights

Ultra-thin compact surface-mount design.

Single-color light control by using optional momentary switch or optional DMX512 interface LXU01 and PWM dimmer LDU13 with built-in ASTEL protocol.

Multi-color RGB light control with dimming and changing of color of lighting manually or automatically through the complete rainbow spectrum by using optional momentary switch or optional DMX512 interface LXU01 with built-in ASTEL protocol.



- Stainless-Steel Casing
- 12 Power LEDs Design
- Cool White, Warm White, Blue, Green and Multi-Color RGB Lighting
- High Grade Polycarbonate Glass Optical Window
- Vacuum Metalized Reflector
- Remote Control
- Microprocessor Control (network)
- Digital Dimming
- Polarity Protection
- Transient Protection
- Thermal Protection
- Low Power Consumption
- Simple Installation

METEOR LSR1280

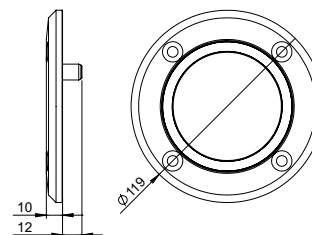
Power supply	12–24 Vdc, max. 1.4 A/12 Vdc or 650 mA/24 Vdc
Beam angle	60° (standard)
Optical window	High-grade polycarbonate glass
Luminous flux	max. 1.900 lm (cool white)
Operating temperature	-10 °C - +50 °C
Casing	Stainless-steel (SAE316L)
Protection	IP 68
Dimensions	Ø119 x 10 mm
Weight	0.6 kg

Color of lighting

W	cool white
WW	warm white
B	blue
G	green
M	RGB multi-color

Beam angle

-	standard
D	wide



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Underwater Pool LED Lights

Ultra-thin compact surface-mount design.

Single-color light control by using optional momentary switch or optional DMX512 interface LXU01 and PWM dimmer LDU13 with built-in ASTEL protocol.

Multi-color RGB light control with dimming and changing of color of lighting manually or automatically through the complete rainbow spectrum by using optional momentary switch or optional DMX512 interface LXU01 with built-in ASTEL protocol.

METEOR LSR36240

Power supply	12-24 Vdc, max. 4.3 A/12 Vdc or 1.9 A/24 Vdc
Beam angle	60° (standard)
Optical window	High-grade polycarbonate glass
Luminous flux	max. 5.700 lm (cool white)
Operating temperature	-10 °C - +50 °C
Casing	Stainless-steel (SAE316L)
Protection	IP 68
Dimensions	Ø139 x 10 mm
Weight	0.8 kg

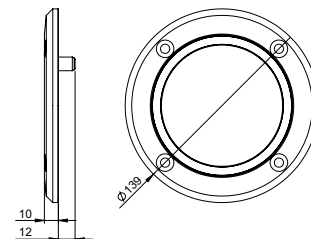


Color of lighting

W	cool white
WW	warm white
B	blue
G	green
M	RGB multi-color

Beam angle

-	standard
D	wide



- Stainless-Steel Casing
- 36 Power LEDs Design
- Cool White, Warm White, Blue, Green and Multi-Color RGB Lighting
- High Grade Polycarbonate Glass Optical Window
- Vacuum Metalized Reflector
- Remote Control
- Microprocessor Control (network)
- Digital Dimming
- Polarity Protection
- Transient Protection
- Thermal Protection
- Low Power Consumption
- Simple Installation

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Underwater Pool LED Lights

Ultra-thin compact surface-mount design.

Single-color light control by using optional momentary switch or optional DMX512 interface LXU01 and PWM dimmer LDU13 with built-in ASTEL protocol.

Multi-color RGB light control with dimming and changing of color of lighting manually or automatically through the complete rainbow spectrum by using optional momentary switch or optional DMX512 interface LXU01 with built-in ASTEL protocol.



METEOR LSR36500

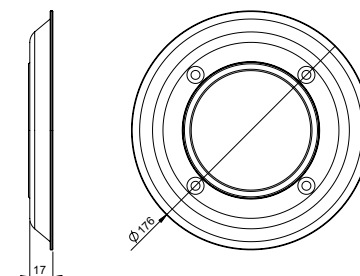
Power supply	24 Vdc, max. 3.4 A
Beam angle	60° (standard)
Optical window	High-grade polycarbonate glass
Luminous flux	max. 8.300 lm (cool white)
Operating temperature	-10°C - +50 °C
Casing	Stainless-steel (SAE316L)
Protection	IP 68
Dimensions	Ø176 x 17 mm
Weight	2.3 kg

Color of lighting

W	cool white
WW	warm white
B	blue
G	green
M	RGB multi-color

Beam angle

-	standard
D	wide



- Stainless-Steel Casing
- 36 Power LEDs Design
- Cool White, Warm White, Blue, Green and Multi-Color RGB Lighting
- High Grade Polycarbonate Glass Optical Window
- Vacuum Metalized Reflector
- Remote Control
- Microprocessor Control (network)
- Digital Dimming
- Polarity Protection
- Transient Protection
- Thermal Protection
- Low Power Consumption
- Simple Installation

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Underwater Pool LED Lights

Modern compact flush-mount design.

Single-color or Multi-color RGB light control with dimming and changing of color of lighting manually or automatically through the complete rainbow spectrum by using optional momentary switch or optional DMX512 interface LXU01 with built-in ASTEL protocol.



- Stainless-Steel Casing
- 32 Power LEDs Design
- Cool White, Warm White, Blue, Green, Red, Multi-Color RGB and RGBW Lighting
- Tempered Glass Optical Window
- High-Efficiency Lens
- Remote Control
- Microprocessor Control (network)
- Digital Dimming
- Polarity Protection
- Transient Protection
- Thermal Protection
- Low Power Consumption
- Simple Installation

METEOR XP LFR3210

Power supply	12–24 Vdc, max. 9,7 A/12 Vdc or 4.6 A/24 Vdc
Beam angle	35° (standard)
Optical window	Tempered glass 8 mm
Luminous flux	max. 10.000 lm (cool white)
White color temperature	6.000 K
Operating temperature	-10°C - +50°C
Casing	Stainless-steel (316L)
Protection	IP 68
Dimensions	Ø240 x 220 x 64 mm
Weight	4.3kg

METEOR XP LFR3215

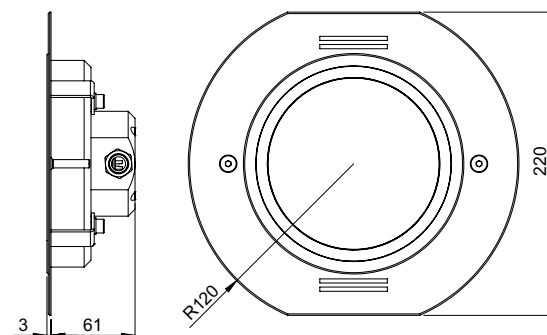
Power supply	12–24 Vdc, max. 9,7 A/12 Vdc or 4.6 A/24 Vdc
Beam angle	35° (standard)
Optical window	Tempered glass 8 mm
Luminous flux	max. 15.000 lm (cool white)
White color temperature	6.000 K
Operating temperature	-10°C - +50°C
Casing	Stainless-steel (316L)
Protection	IP 68
Dimensions	Ø240 x 220 x 64 mm
Weight	4.3kg

Color of lighting

W	cool white
WW	warm white
B	blue
G	green
R	red
RGB	RGB multi-color
RGBW	RGBW multi-color

Beam angle

-	standard
D	wide
N	narrow



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Accessories

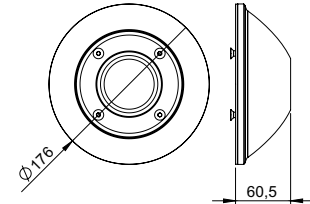
Adapting of METEOR lights to different (existing) PAR56 niches.



PAR56 Adapter LPAR561280

For METEOR LSR1280 series

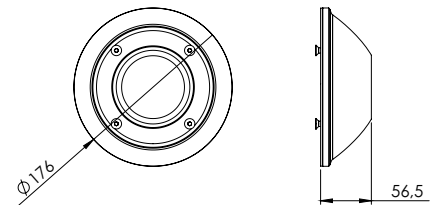
Material	UHMW-PE
Dimensions	Ø176 x 60.5 mm
Weight	0.85 kg



PAR56 Adapter LPAR5636240

For METEOR LSR36240 and LSR36500 series

Material	UHMW-PE
Dimensions	Ø176 x 56.5 mm
Weight	0.75 kg



- For using with METEOR LSR36240, LSR36500 and LSR1280 series
- Black UHMW-PE Body
- Stainless-Steel Screws and Flange
- Simple Installation

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- Mounting of METEOR LSR1280, LSR36240 and LSR36240 series to the standard PAR56 niche

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Accessories

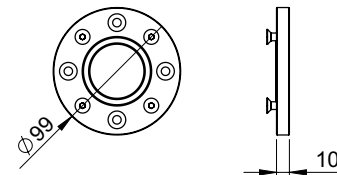
Surface-mount installation of METEOR lights.



Surface Mount Niche LSMN0640

For METEOR LSR0640 series.

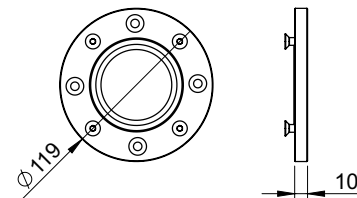
Material	Stainless-steel (SAE316L)
Dimensions	Ø99 x 10 mm
Weight	0.5 kg



Surface Mount Niche LSMN1280

For METEOR LSR1280 series.

Material	Stainless-steel (SAE316L)
Dimensions	Ø119 x 10 mm
Weight	0.7 kg

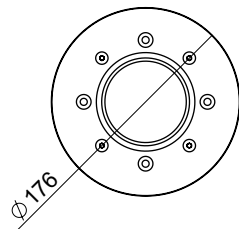


- For using with METEOR series
- Stainless-Steel body
- Stainless-Steel Screws
- Simple Installation

Surface Mount Niche LSMN36500

For METEOR LSR36500 series.

Material	Stainless-steel (SAE316L)
Dimensions	Ø176 x 10 mm
Weight	1.7 kg

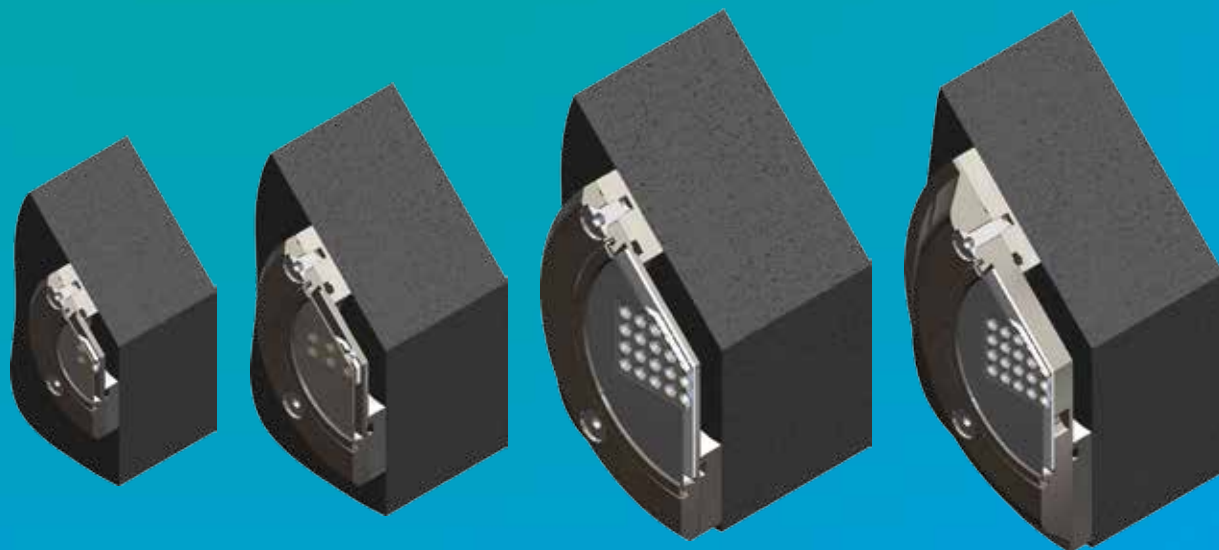


Surface Mount Niche LSMN36240

For METEOR LSR36240 series.

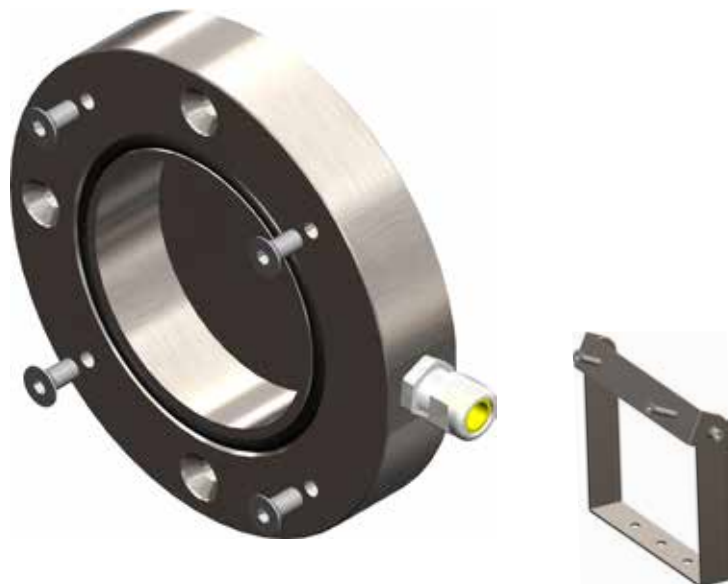
Material	Stainless-steel (SAE316L)
Dimensions	Ø139 x 10 mm
Weight	0.9 kg





Accessories

Surface-mount right-angle cable installation of METEOR lights with lighting direction adjustment possibility.

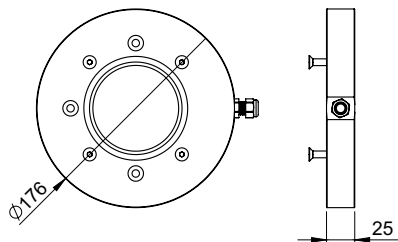


- For using with METEOR series
- Stainless-Steel body
- Stainless-Steel Screws
- PVDF Cable Gland
- Simple Installation

Surface-Mount Right-Angle Niche LRMN36500

For METEOR LSR36500 series.

Material Stainless-steel (SAE316L)
Dimensions $\varnothing 176 \times 25$ mm
Weight 4.0 kg



Surface-Mount Right-Angle Niche Accessory LSB36500

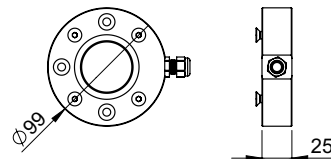
For METEOR LSR36500 series.

Material Stainless-steel (SAE316L)
Dimensions $155 \times 176 \times 30$ mm
Weight 0.5 kg

Surface-Mount Right-Angle Niche LRMN0640

For METEOR LSR0640 series.

Material Stainless-steel (SAE316L)
Dimensions $\varnothing 99 \times 25$ mm
Weight 1.3 kg



Surface-Mount Right-Angle Niche Accessory LSB0640

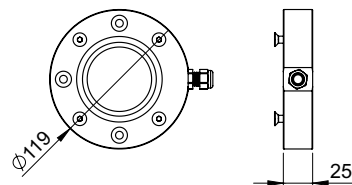
For METEOR LSR0640 series.

Material Stainless-steel (SAE316L)
Dimensions $107 \times 100 \times 20$ mm
Weight 0.3 kg

Surface-Mount Right-Angle Niche LRMN1280

For METEOR LSR1280 series.

Material Stainless-steel (SAE316L)
Dimensions $\varnothing 119 \times 25$ mm
Weight 1.8 kg



Surface-Mount Right-Angle Niche Accessory LSB1280

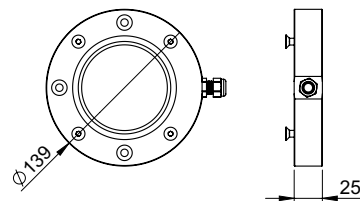
For METEOR LSR1280 series.

Material Stainless-steel (SAE316L)
Dimensions $117 \times 120 \times 20$ mm
Weight 0.3 kg

Surface-Mount Right-Angle Niche LRMN36240

For METEOR LSR36240 series.

Material Stainless-steel (SAE316L)
Dimensions $\varnothing 139 \times 25$ mm
Weight 2.2 kg



Surface-Mount Right-Angle Niche Accessory LSB36240

For METEOR LSR36240 series.

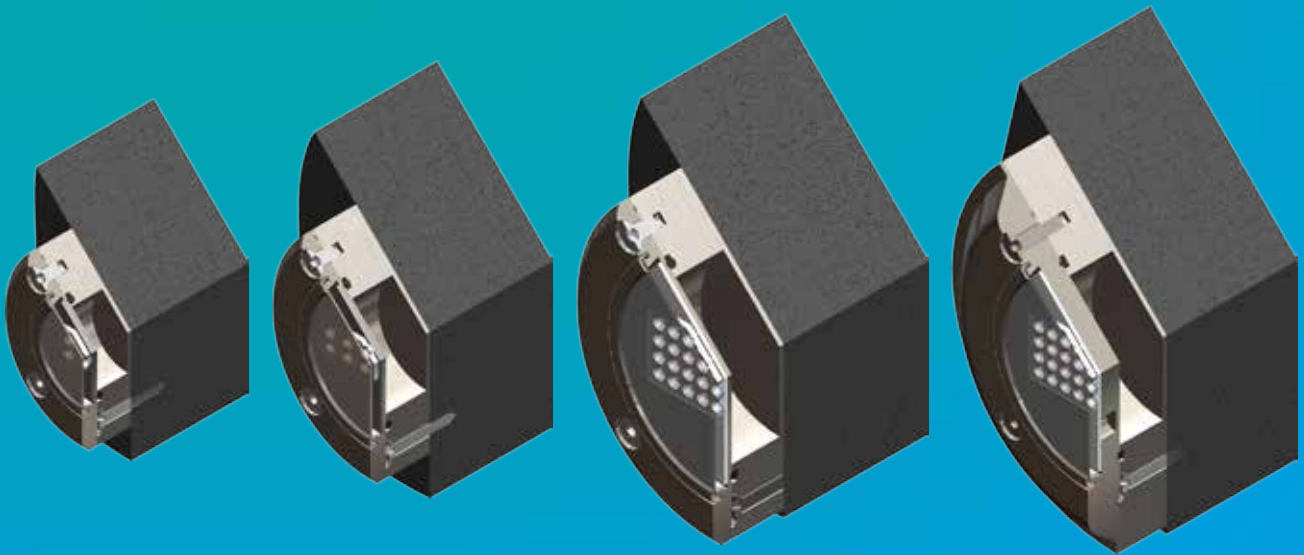
Material Stainless-steel (SAE316L)
Dimensions $132 \times 140 \times 25$ mm
Weight 0.4 kg

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Accessories

Installation of METEOR lights to concrete pools with ceramic tile finish.

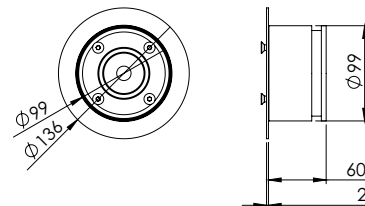


- For using with METEOR series
- Black UHMW-PE Body
- Stainless-Steel Screws and Flange
- Simple Installation

Concrete Pool Niche LCPN0640

For METEOR LSR0640 series.

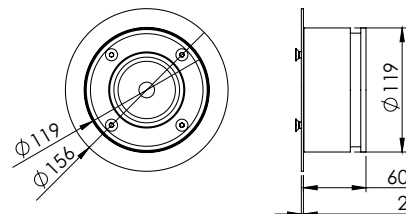
Material UHMW-PE
Dimensions Ø99 x 60 mm
Weight 0.5 kg



Concrete Pool Niche LCPN1280

For METEOR LSR1280 series.

Material UHMW-PE
Dimensions Ø119 x 60 mm
Weight 0.7 kg

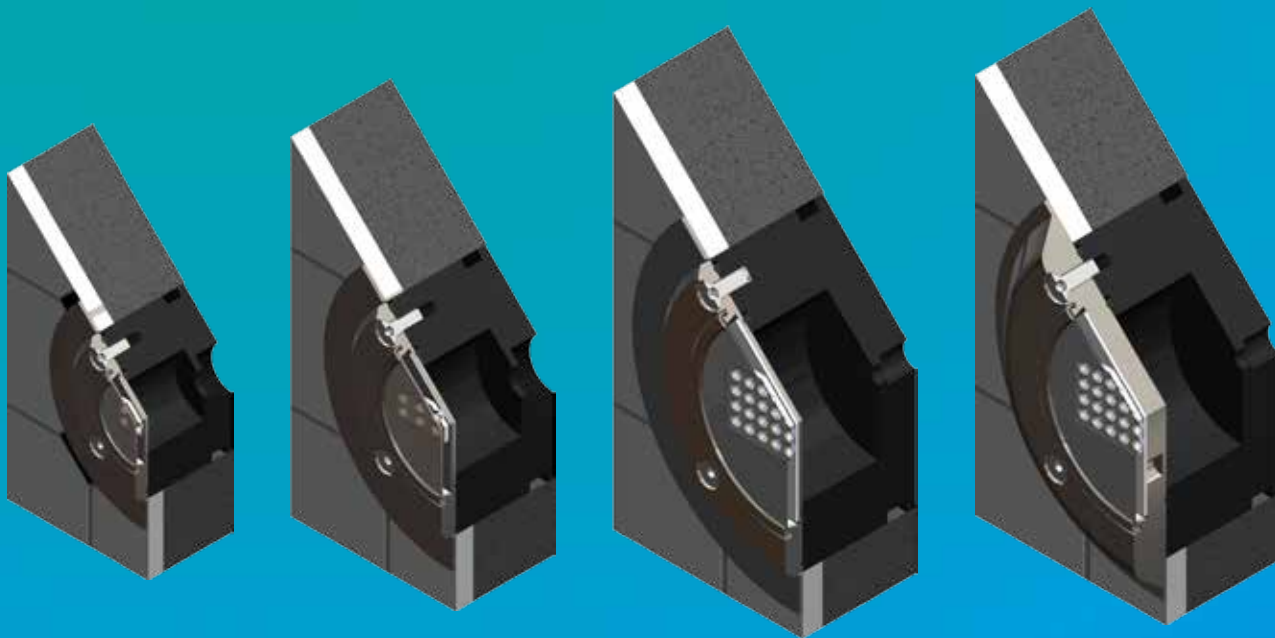


Concrete Pool Niche LCPN36240

For METEOR LSR36240 and LSR36500 series.

Material UHMW-PE
Dimensions Ø139 x 60 mm
Weight 0.9 kg





Accessories

Installation of METEOR lights to concrete pools with ceramic tile finish aligned with wall surface

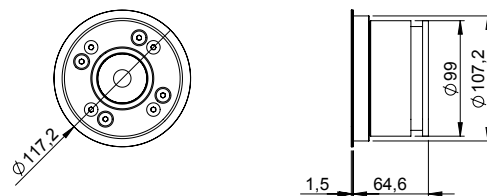


- For using with METEOR series
- Black UHMW-PE Body
- Stainless Steel Flush-Mount Front Lid
- Stainless Steel Screws
- Simple Installation

Concrete Pool Niche LCFN0640

For METEOR LSR0640 series.

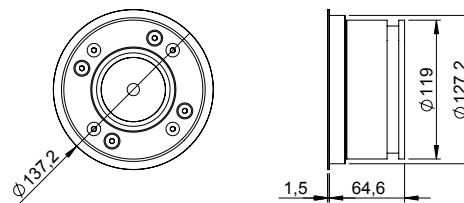
Material	UHMW-PE / Stainless steel (SAE316L)
Dimensions	Ø117.2 x 66.1 mm
Weight	0.8 kg



Concrete Pool Niche LCFN1280

For METEOR LSR1280 series.

Material	UHMW-PE / Stainless steel (SAE316L)
Dimensions	Ø137.2 x 66.1 mm
Weight	1.1 kg



Concrete Pool Niche LCFN36240

For METEOR LSR36240 series.

Material	UHMW-PE / Stainless steel (SAE316L)
Dimensions	Ø157.2 x 66.1 mm
Weight	1.3 kg



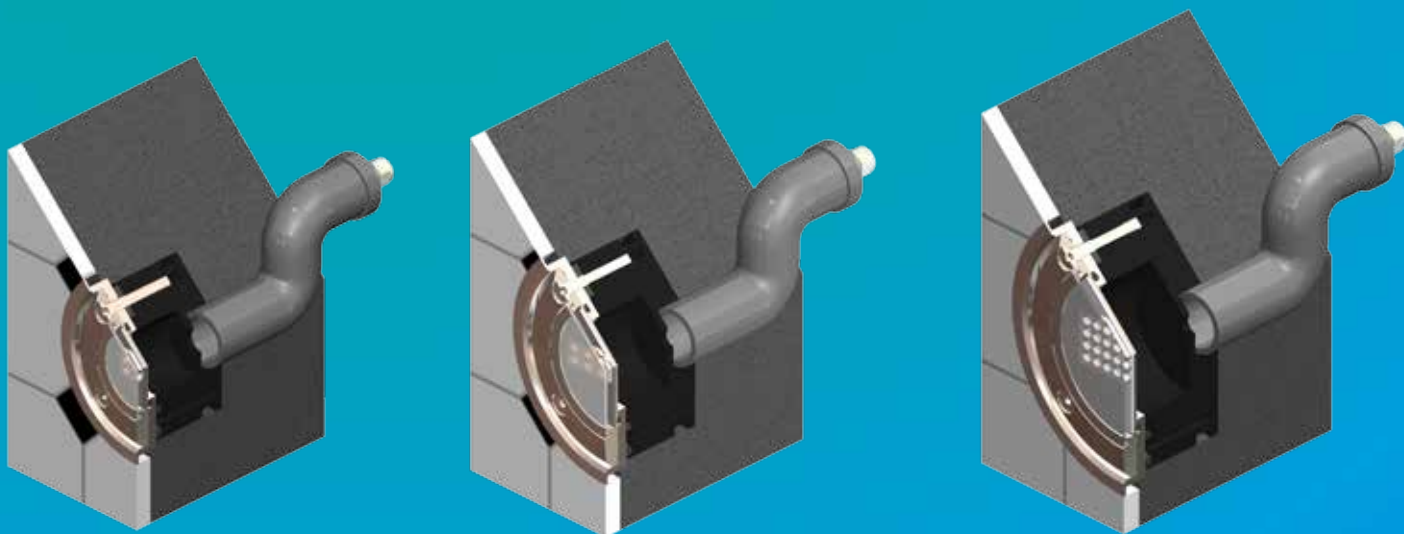
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- Installation of METEOR series to concrete pools with ceramic tiles designed with wall surface

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Accessories

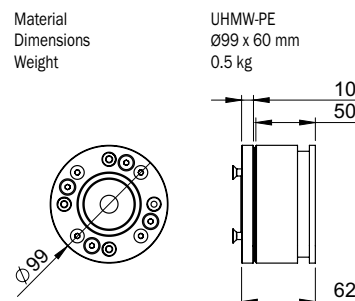
Installation of METEOR lights to polyester or liner/concrete pools.



- For using with METEOR series
- Black UHMW-PE Body
- Stainless-Steel Screws and Flange
- Simple Installation

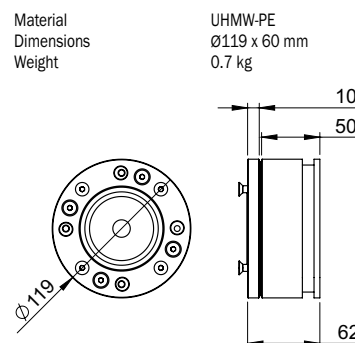
Liner Pool Niche LLPN0640

For METEOR LSR0640 series.



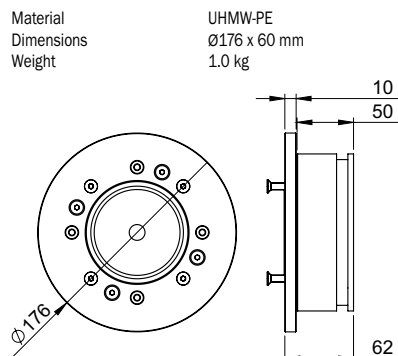
Liner Pool Niche LLPN1280

For METEOR LSR1280 series.



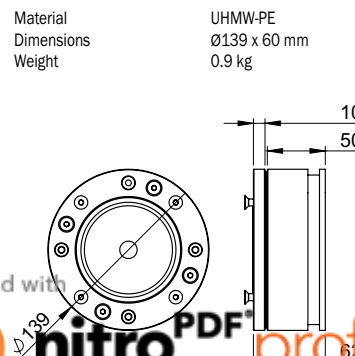
Liner Pool Niche LLPN36500

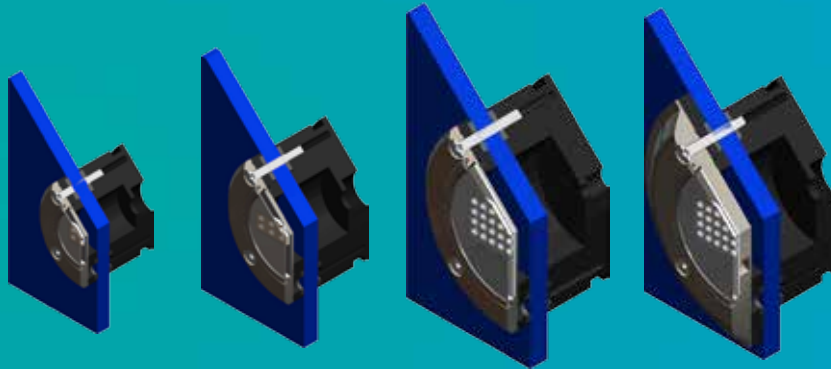
For METEOR LSR36500 series.



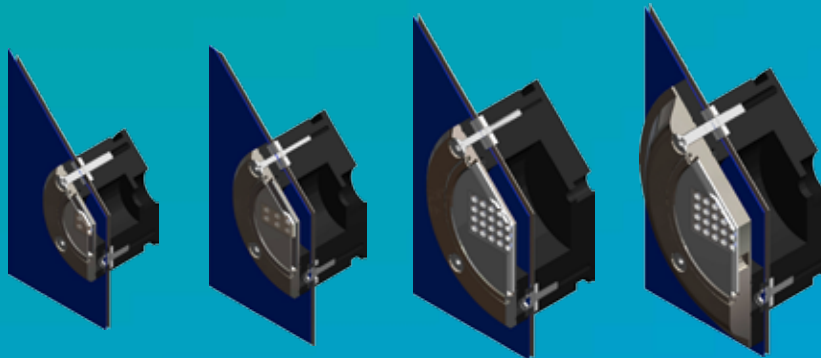
Liner Pool Niche LLPN36240

For METEOR LSR36240 series.

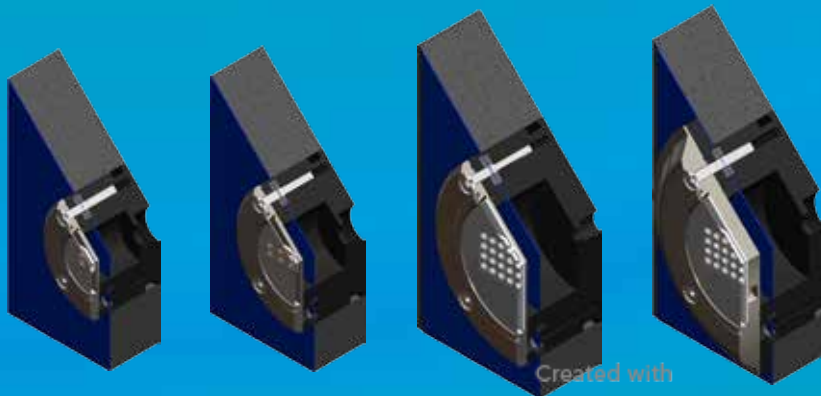




- Installation of METEOR series to polyester pools



- Installation of METEOR series to liner/stainless-steel pools



- Installation of METEOR series to liner/stainless-steel pools

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Accessories

Accessories of LLPN niche series for installation of METEOR lights to liner and liner/stainless-steel pools.



Liner / Stainless-Steel Pool Niche Accessory LLS0640

For METEOR LSR0640 series.

Material	Elastomer NBR 65 Sh
Dimensions	Ø99 mm
Weight	0.1 kg

Liner / Stainless-Steel Pool Niche Accessory LLS1280

For METEOR LSR1280 series.

Material	Elastomer NBR 65 Sh
Dimensions	Ø119 mm
Weight	0.1 kg

Liner / Stainless-Steel Pool Niche Accessory LLS36240

For METEOR LSR36240 and LSR36500 series.

Material	Elastomer NBR 65 Sh
Dimensions	Ø139 mm
Weight	0.1 kg



Liner Pool Niche Accessory LLR0640

For METEOR LSR0640 series.

Material	Stainless-steel (SAE316L)
Dimensions	Ø99 x 10 mm
Weight	0.6 kg

Liner Pool Niche Accessory LLR1280

For METEOR LSR1280 series.

Material	Stainless-steel (SAE316L)
Dimensions	Ø119 x 10 mm
Weight	0.8 kg

Liner Pool Niche Accessory LLR36240

For METEOR LSR36240 series.

Material	Stainless-steel (SAE316L)
Dimensions	Ø139 x 10 mm
Weight	1 kg

Liner Pool Niche Accessory LLR36500

For METEOR LSR36500 series.

Material	Stainless-steel (SAE316L)
Dimensions	Ø176 x 10 mm
Weight	1.6 kg

- For using with Liner Pool Niche LLPN series
- Elastomer and Stainless-Steel Body
- Stainless-Steel Screws
- Simple Installation

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Accessories

Surface-mount installation of single-color or multi-color RGB lights.



Gasket LSG0640

For METEOR LSR0640 series.

Material	Elastomer NBR 65 Sh
Dimensions	Ø99
Weight	0.1 kg

Gasket LSG1280

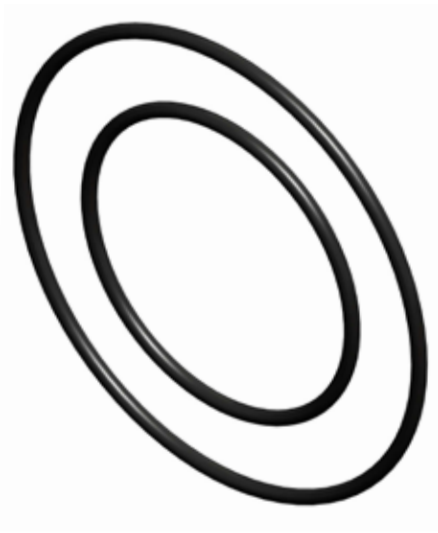
For METEOR LSR1280 series.

Material	Elastomer NBR 65 Sh
Dimensions	Ø139
Weight	0.1 kg

Gasket LSG36240

For METEOR LSR36240 and LSR36500 series.

Material	Elastomer NBR 65 Sh
Dimensions	Ø199
Weight	0.1 kg



O-Ring LS00640

For METEOR LSR0640 series.

Material	Elastomer NBR 70
Dimensions	Ø86 / Ø44 mm
Weight	0.1 kg

O-Ring LS01280

For METEOR LSR01280 series.

Material	Elastomer NBR 70
Dimensions	Ø108 / Ø63 mm
Weight	0.1 kg

O-Ring LS036240

For METEOR LSR36240 and LSR36500 series.

Material	Elastomer NBR 70
Dimensions	Ø126 / Ø82 mm
Weight	0.1 kg

- For using with METEOR series
- Simple Installation

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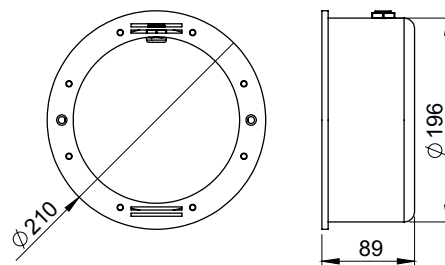
Accessories

Installation of METEOR XP lights to stainless-steel or concrete pools with ceramic tile finish.

Concrete Pool Niche LCPNXP32

For METEOR XP series.

Material	Stainless-steel (SAE316L)
Dimensions	Ø210 x 89 mm
Weight	2.0 kg



- For using with METEOR XP series
- Stainless-Steel Body

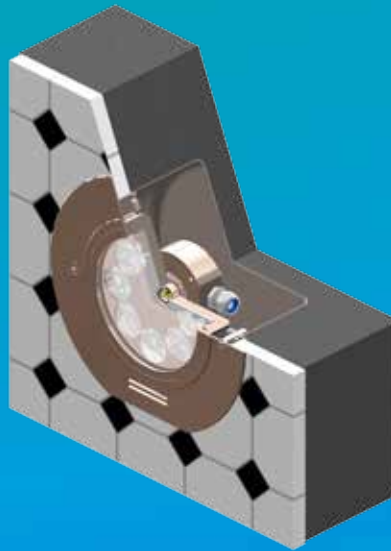
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- Installation of METEOR XP series to stainless-steel pools



- Installation of METEOR XP series to concrete pools with ceramic tiles finish

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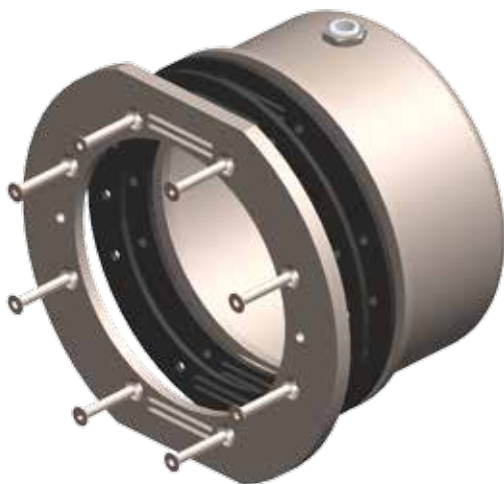


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Accessories

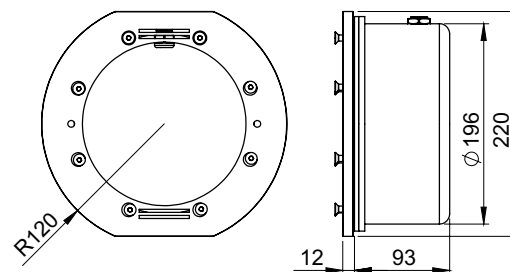
Installation of METEOR XP lights to liner/concrete pools.



Liner Pool Niche LLPNXP32

For METEOR XP series.

Material	Stainless-steel (SAE316L)
Dimensions	Ø240 x 220 x 105 mm
Weight	3.7 kg



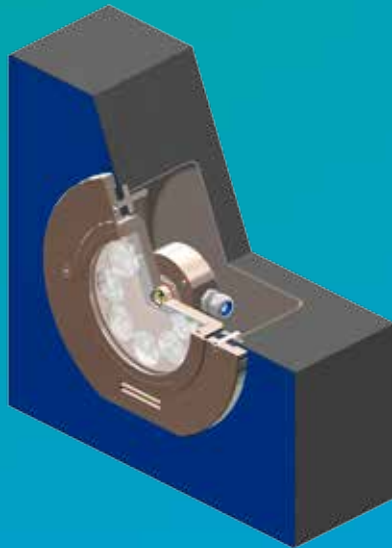
- For using with METEOR XP series
- Stainless-Steel Body
- Stainless-Steel Flange and Screws
- Elastomer Gaskets

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- Installation of METEOR XP series to liner/concrete pools

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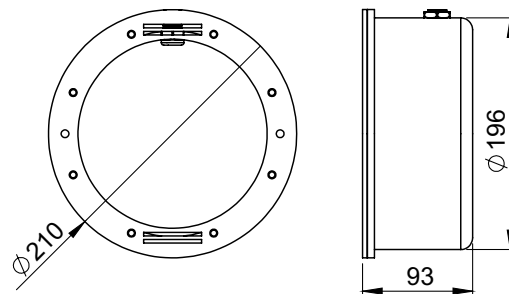
Installation of METEOR XP lights to liner/concrete pools.



Liner Pool Niche LLGNXP32

For METEOR XP series.

Material	Stainless-steel (SAE316L)
Dimensions	Ø210 x 93 mm
Weight	2.1 kg

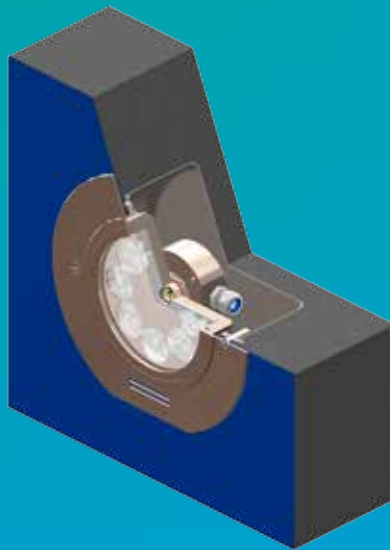


- For using with METEOR XP series
- Stainless-Steel Body
- Elastomer Gasket

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- Installation of METEOR XP series to liner/concrete pools

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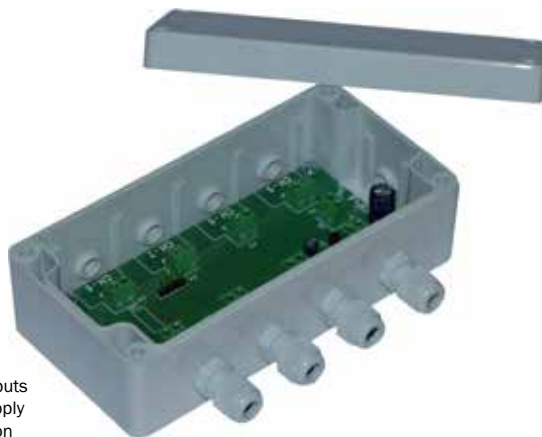


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Accessories

Synchronization of color of lighting for complete group of multi-color RGB lights when automatical changing of color of lighting through the complete rainbow spectrum is selected and controlled by using optional momentary switch.



- 8 Synchronization Outputs
- Wide Range Power Supply
- Low Power Consumption
- Polarity Protection
- Transient Protection
- Short Circuit Output Protection
- Simple Installation

Dimming of single-color lights or group of lights by using optional momentary switch. Built-in ASTEL protocol to control single-color lights or group of lights by using optional DMX512 interface LXU01.

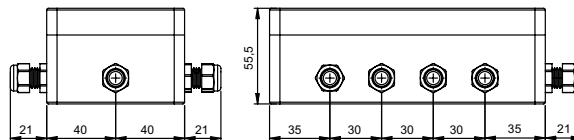


- 3 Control Outputs
- Adjustable PWM Frequency
- Wide Range Power Supply
- Low Power Consumption
- Polarity Protection
- Transient Protection
- Short Circuit Output Protection
- Simple Installation

Synchronization Unit LSU08

For multi-color RGB METEOR series.

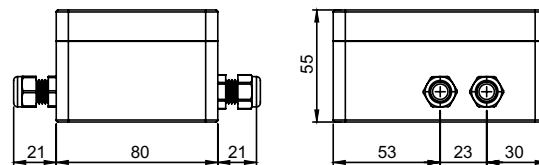
Input voltage	12-24 Vdc
Consumption	max. 10 mAdc
Operating temperature	-10 °C - +50 °C
Casing	ABS
Protection	IP 65
Dimensions	max. 181x122x55.5mm
Weight	0.3 kg



PWM Dimmer LDU13

For single-color METEOR series.

Input voltage	12-24 Vdc
Consumption	max. 10 mAdc
ASTEL protocol default address	1
Operating temperature	-10 °C - +50 °C
Casing	ABS
Protection	IP 65
Dimensions	max. 106x122x55.5mm
Weight	0.2 kg



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Accessories

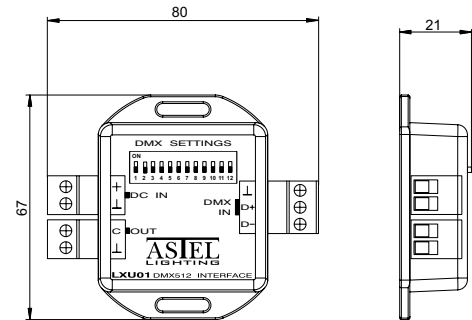
DMX512 to ASTEL protocol multi-light converter to control single-color or multi-color RGB light or one group of lights with built-in ASTEL protocol.



- 1 Control Output
- DIP-switch Programmable
- Multi - Speed Mode
- Wide Range Power Supply
- Low Power Consumption
- Polarity Protection
- Transient Protection
- Short Circuit Output Protection
- Simple Installation

DMX512 Interface LXU01

Input voltage	12-24 Vdc
Consumption	max. 50 mAdc
Operating temperature	-10°C - +50°C
Casing	ABS
Dimensions	max. 67x80x21mm
Weight	0.1 kg



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