

PROJECT

FIRM

ORDER #

TYPE

QTY




Aqua Drum™ fixtures are high output, submersible heads suitable for use in all aquatic locations down to a depth of 20' (6m). A range of emitter types, lens options and full UL676 Pool & Spa certification make these heads particularly suited for exterior façade washing as well as fountain, pond and landscape applications.

Three size options, each with differing head diameters and emitter counts ensure that there is an Aqua Drum for every available space and throw distance. Optional in-grade housings are available for each Aqua Drum size to enable fully-sealed walk-over installations.




At a glance



Optics


- 10° x 10°
- 10° x 35°
- 10° x 60°
- 25° x 25°
- 40° x 40°
- 60° x 60°
- 90° x 90°



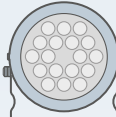
Emitters

- Fixed White**
(2700K, 3000K, 3500K or 4000K)
- or**
- RGBW**
(W=3000K, 4000K or 6000K)
- or**
- RGBA**

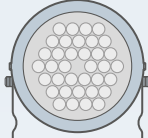
Sizes



EO
Ø3.66"
(Ø93mm)



SO
Ø6.53"
(Ø166mm)



HO
Ø7.59"
(Ø193mm)



Power

Low voltage:
24VDC via
Aqua Driver



Temperature

-40° F to 122° F
-40° C to 50° C



Protection

Ingress: **IP68**
Impact: **IK08**



Output

Up to
3,259
lumens



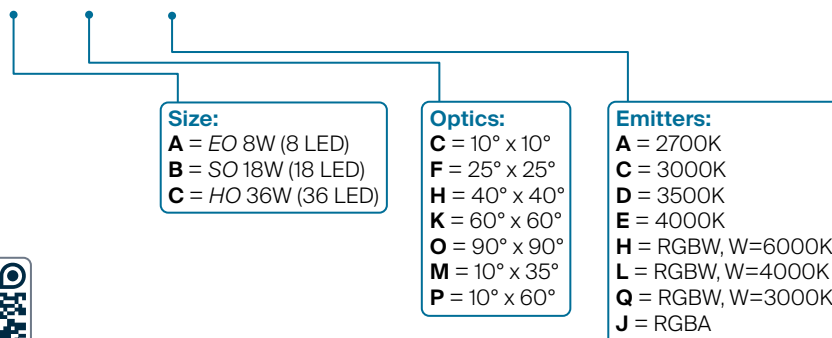
Construction

SAE 316
molybdenum-alloyed
marine grade stainless steel

Configure your product

AQP-261- **N**

Example final code: **AQP-261-CKLN**



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Specifications

Emitters	2700K, 3000K, 3500K, 4000K, RGBW (W=3000K, 4000K or 6000K) or RGBA
Emitter arrangements	HO: 36 x 1W emitters SO: 18 x 1W emitters EO: 8 x 1W emitters
Optics	10° x 10°, 25° x 25°, 40° x 40°, 60° x 60°, 90° x 90°, 10° x 35° or 10° x 60°
Output	HO: up to 3,259 lumens SO: up to 1,600 lumens EO: up to 700 lumens
Lumen maintenance	L ₇₀ 150,000 hours (@ 25° C)
Control	0-100% dimming through DMX (via Aqua Driver 150 or 400)
Fixtures per driver	Aqua Driver 150: up to 4 heads; Aqua Driver 400: up to 8 heads (see page 10)
Operating voltage	24VDC, constant current via Aqua Driver 150 or 400. Aqua Drivers require 100-277VAC, 50/60Hz
Power consumption	HO: 36W SO: 18W EO: 8W
Connection	98' (30m) STOW cable included (sealed at the head end, terminal block at the driver end)
Mounting	Yoke arm included or optional in-grade housing
Material	SAE 316 molybdenum-alloyed marine grade stainless steel plus sealed glass lens
Finish	Stainless steel, marine environment ready
Ambient temperature range	-40° F to 122° F (-40° C to 50° C)
Ingress protection	IP68, submersible to 20' (6m)
Impact protection	IK08, protection against 5 joule impact (40cm distance) - walk over rated
Warranty	5 years, limited
Weight	HO: 8 lbs (3.6 kg) SO: 6.6 lbs (3 kg) EO: 4 lbs (1.8 kg)
Dimensions	HO: page 5 SO: page 6 EO: page 7
Certifications	  

Photometrics

For all available IES files, please visit acclaimlighting.com/aqua-drum

Color or color temperature	Lumens	Center Candela	Efficacy (lm/W)	CRI (Ra)	TM30
2700K (EO)	668	8,006	41	81.5	-
3500K (SO)	1,568	20,055	64	82.7	-
4000K (HO)	3,259	41,849	73	80.0	-
RGBW (EO)	424	6,502	27	-	-

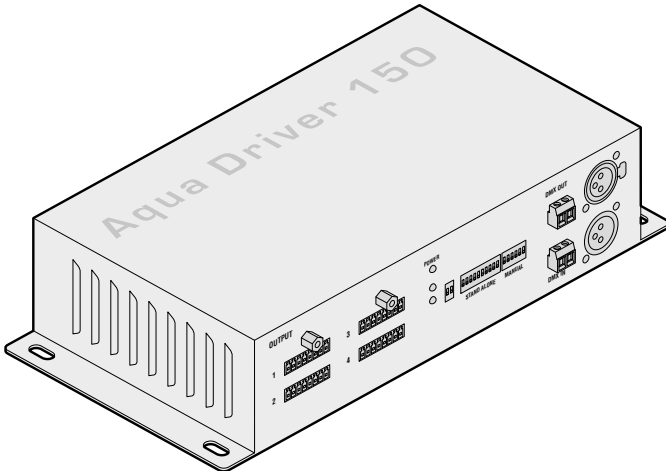


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Related components

Driver

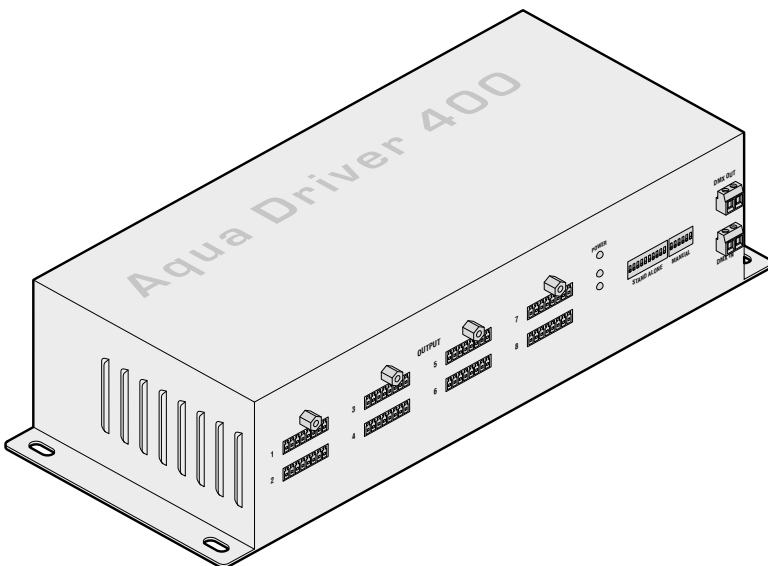
Aqua Driver 150



100-277VAC 50/60Hz input, 24VDC plus PWM outputs
Supports up to **four** Aqua Drum heads (HO, SO or EO)

Part # **ADR157**

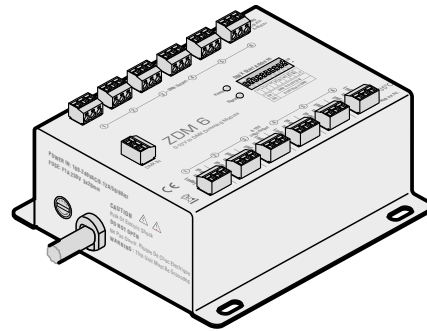
Aqua Driver 400



100-277VAC 50/60Hz input, 24VDC plus PWM outputs
Supports up to **eight** Aqua Drum heads (HO, SO or EO)

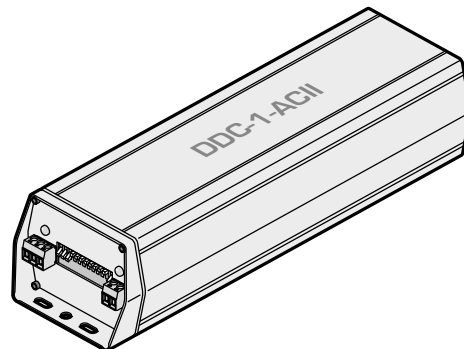
Part # **ADR400**

Signal converters (see page 9)



Multi-channel (0-10V) converter

ZDM6



DALI multiple channel converter

DDC1AC



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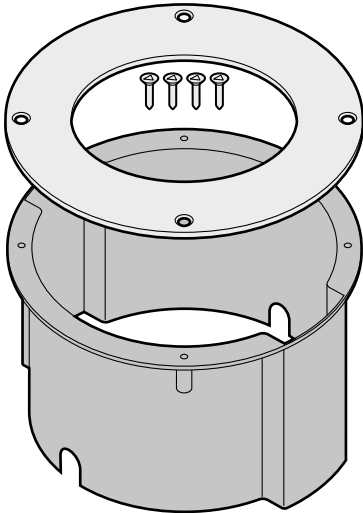
TYPE

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Mounting accessories

In-grade housings

Each includes black plastic sleeve, stainless steel trim ring plus four security screws



- For Aqua Drum HO
- AQD-IGH-HO**
- For Aqua Drum SO
- AQD-IGH-SO**
- For Aqua Drum EO
- AQD-IGH-EO**



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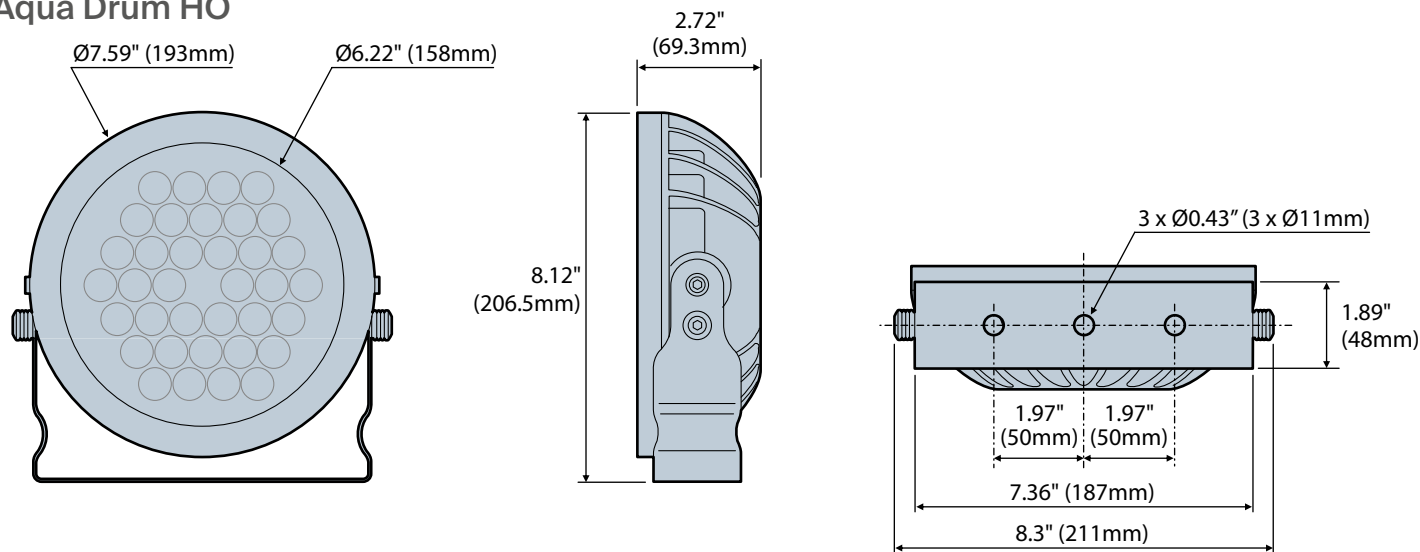
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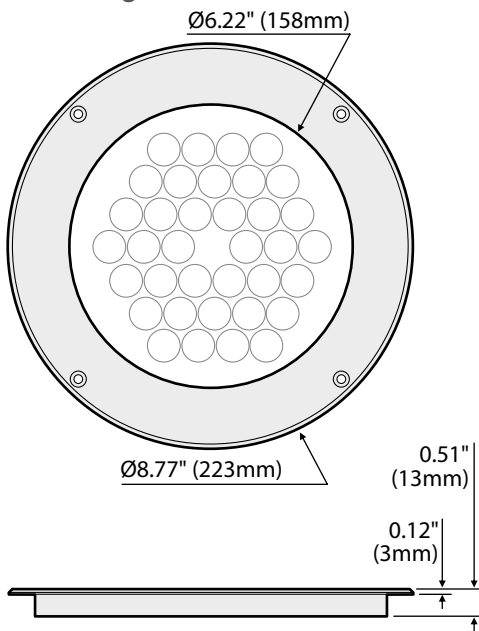
Dimensions

Aqua Drum HO

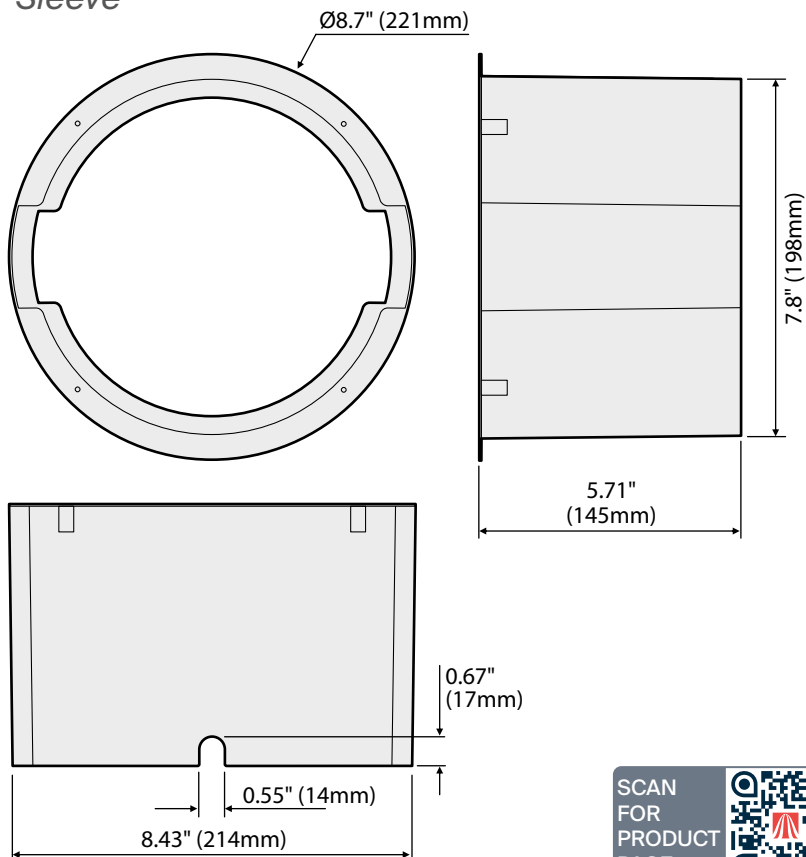


Optional in-grade housing for Aqua Drum HO

Trim ring



Sleeve



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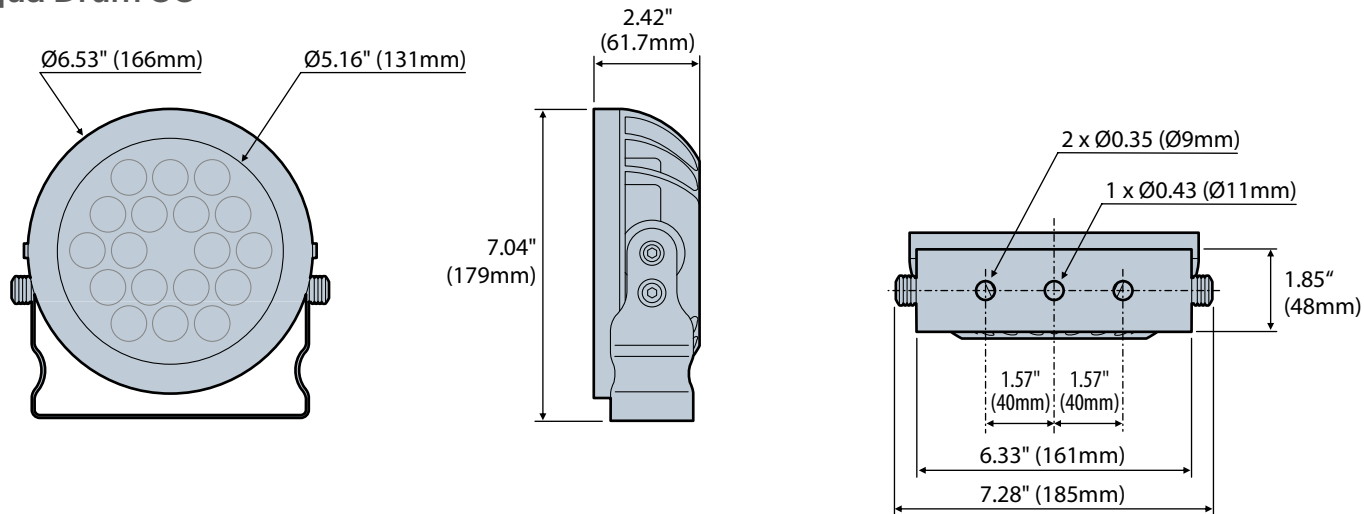
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TYPE

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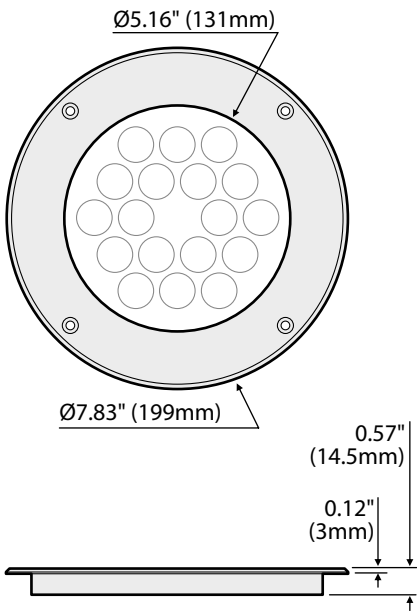
Dimensions

Aqua Drum SO

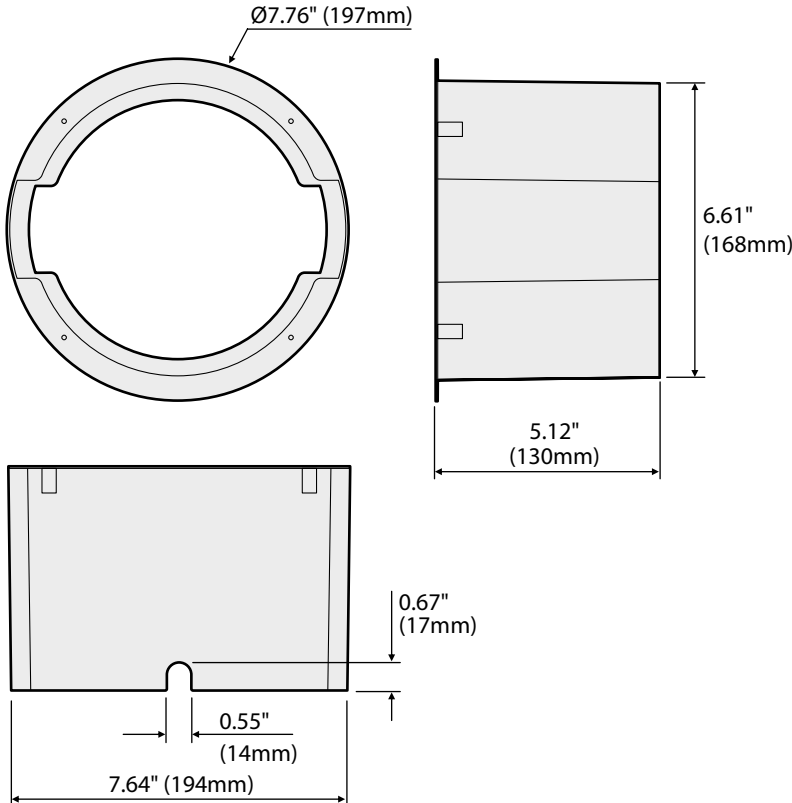


Optional in-grade housing for Aqua Drum SO

Trim ring



Sleeve



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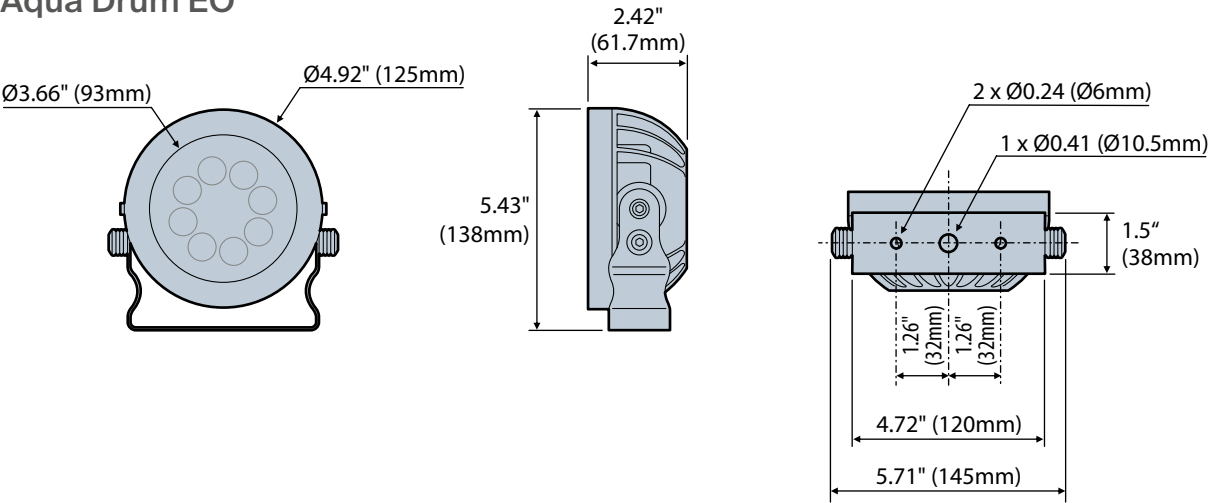
ORDER #

TYPE

QTY

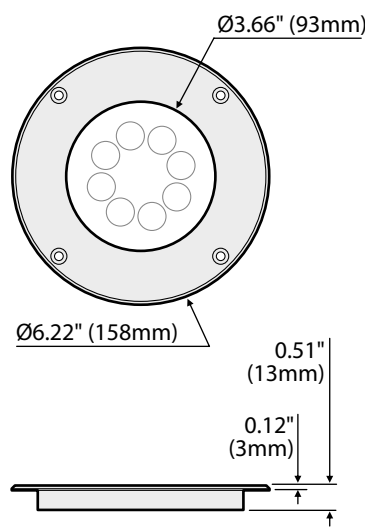
Dimensions

Aqua Drum EO

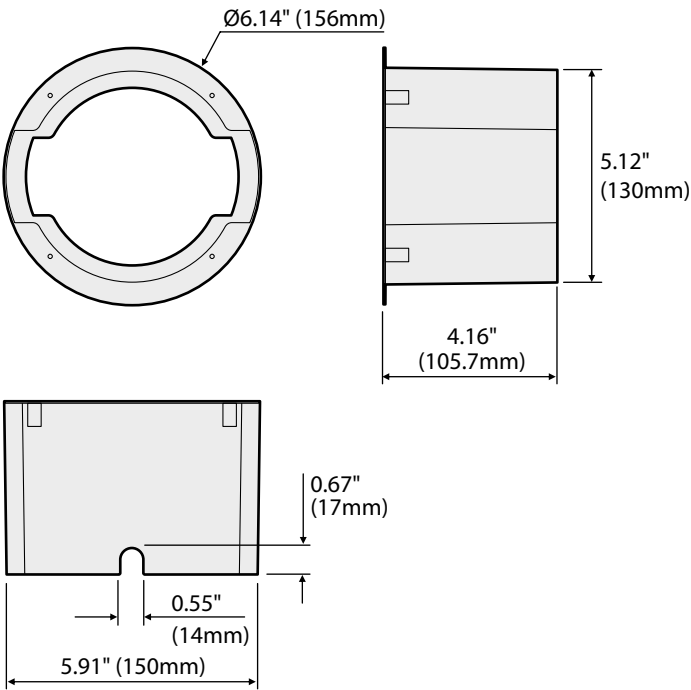


Optional in-grade housing for Aqua Drum EO

Trim ring



Sleeve



PROJECT

FIRM

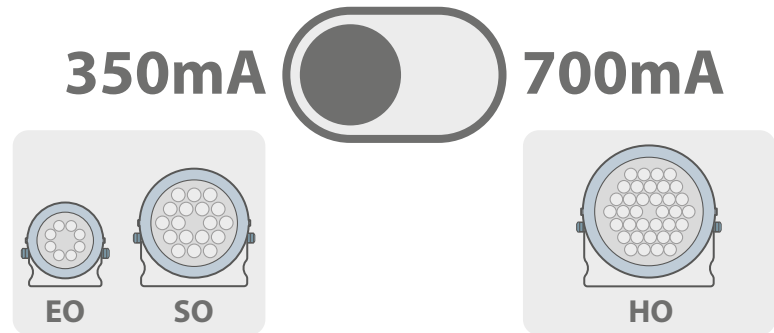
ORDER #

TYPE

QTY

Driver connections

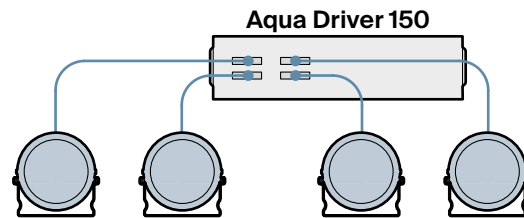
The various sizes of Aqua Drum heads use one of two drive currents: 350mA or 700mA. The Aqua Drivers can either be switched to one current setting or the other. This means that while it is possible to mix Aqua Drum EO and SO heads on the same driver, the HO models can only be used exclusively because they require the higher current setting.



Aqua Driver 150

These drivers can supply **four** Aqua Drum heads, either:

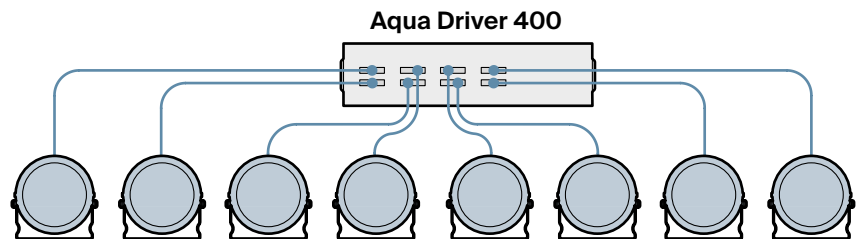
- A mix of up to four EO and SO heads at the 350mA setting.
- or
- Up to four HO heads at the 700mA setting.



Aqua Driver 400

These drivers can supply **eight** Aqua Drum heads, either:

- A mix of up to eight EO and SO heads at the 350mA setting.
- or
- Up to eight HO heads at the 700mA setting.



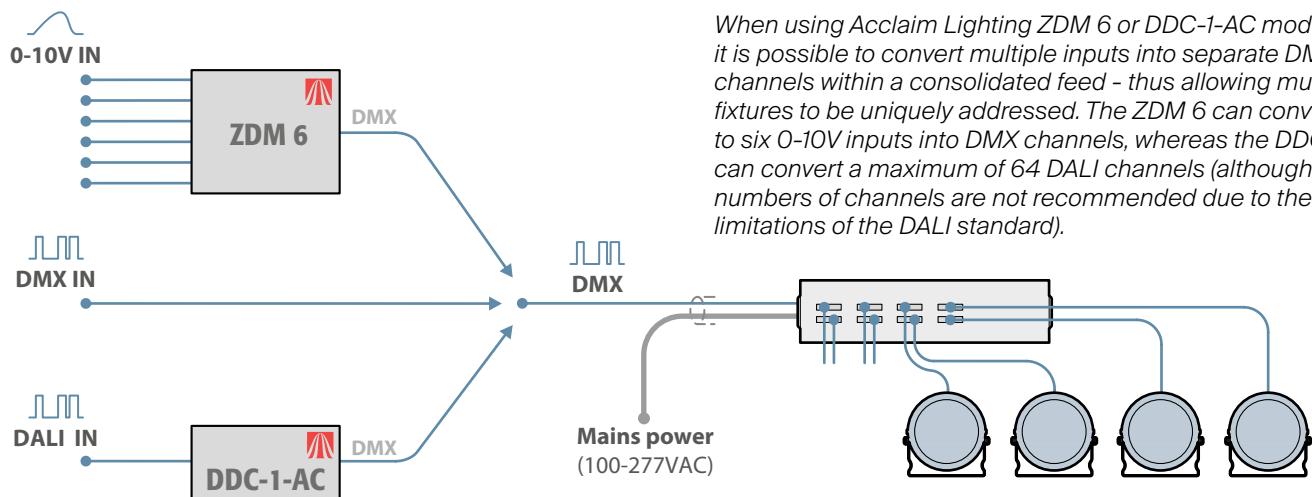
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Alternative control inputs

Aqua Drivers use DMX as their native control method, however, it is possible to use other common control protocols when required, such as 0-10V (source or sink) or DALI.

Control inputs via converters

- DMX - connect a DMX input directly to the feed cable.
- 0-10V - use an Acclaim Lighting ZDM 6 to convert one or more analog control feeds into a combined DMX feed.
- DALI - use an Acclaim Lighting DDC-1-AC to convert one or more DALI channels into a combined DMX feed.



When using Acclaim Lighting ZDM 6 or DDC-1-AC modules it is possible to convert multiple inputs into separate DMX channels within a consolidated feed - thus allowing multiple fixtures to be uniquely addressed. The ZDM 6 can convert up to six 0-10V inputs into DMX channels, whereas the DDC-1-AC can convert a maximum of 64 DALI channels (although large numbers of channels are not recommended due to the timing limitations of the DALI standard).



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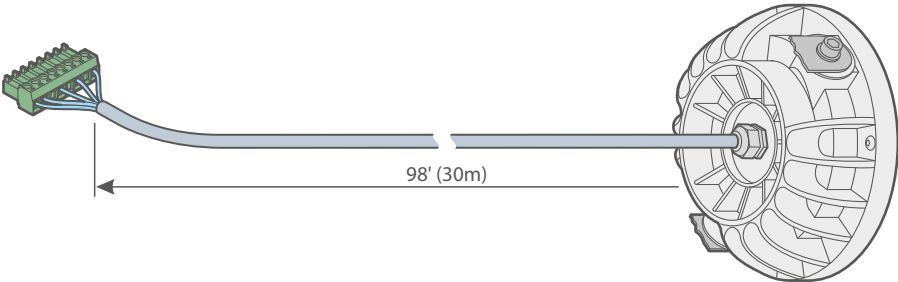
TYPE

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Aqua Drum cabling

Cables

Each Aqua Drum head is fitted with a 98' (30m) STOW cable (**S**ervice, **T**hermoplastic, **O**il and **W**ater resistant). The cable is sealed at the rear of the head and has a terminal block at the driver end. The cable can be shortened and re-wired to the terminal block, as necessary. The outer diameter of the STOW cable is 0.47" (12mm).

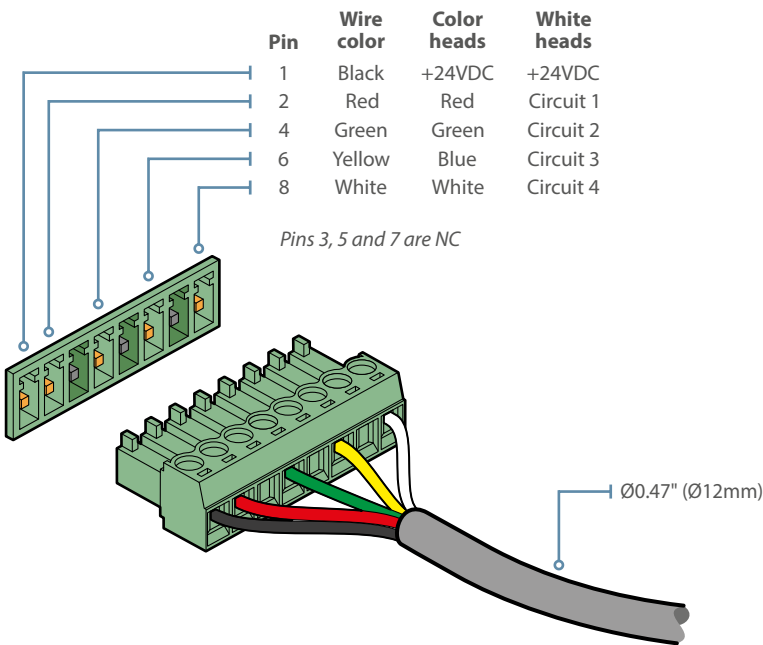


In situations where the Aqua Drum cable is connected to a supply cable before arriving at the driver, ensure the conductors of the supply cable are of sufficient size and that the total cable length (including the Aqua Drum cable) is not exceeded:

Conductor size	Maximum length (including Aqua Drum cable)
• 18 AWG (0.823mm ²)	Up to 100' (30m)
• 14 AWG (2.081mm ²)	Up to 125' (38m)
• 12 AWG (3.309mm ²)	Up to 150' (45m)

Cable pinout

Each Aqua Drum cable has five wires connected to an 8-way terminal block:



Mixing white and color Aqua Drum heads

Each Aqua Driver module uses switch settings to determine whether the attached heads have fixed white or color mixing emitters. The chosen setting is applied to all ports of the driver. However, the electrical characteristics of the ports do not change, only their logical addressing configuration. Therefore, if necessary, it is possible to integrate fixed white heads into a driver configured for color mixing.

When a fixed white model is attached to a driver running in color mixing mode, the various white emitter circuits of the head will respond individually to the equivalent RGBW/A DMX channel addresses. This behavior can be accommodated by grouping those channels together at the DMX controller.

Note: The restriction on not mixing HO heads (whether fixed white or color mixing) with EO/SO heads still remains.

For full installation details, please refer to the **user guide**, available for free download here: