

PROJECT

FIRM

ORDER #

TYPE

QTY



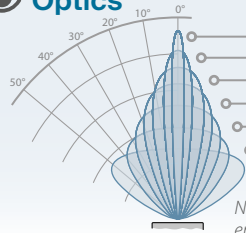
The **Dyna Drum™** family of floodlights has been the premier choice of serious designers for years; their high outputs, robust weather protection and unmatched reliability are legendary.

Dyna Drum S3 SCS models use RGB+ or Dynamic White (DW) emitters to produce strong outputs and superior color mixing. The native 3° or 7° beam can be easily modified with quick-fit spread lenses to suit wider applications.

Dyna Drum fixtures are equally happy to receive DMX control via cable or the airwaves, thanks to the Aria™ X2 wireless receiver built into every unit. A clear daylight-readable OLED touch-screen display provides access to a comprehensive configuration menu system. Alternatively, key configuration changes can be made remotely using either RDM (Remote Device Management), or via BLE (Bluetooth™ Low Energy) wirelessly from our free iOS app.

Every Dyna Drum S3 is supplied with a bare wire power/control feed cable, which attaches directly to its OLS connector. The OLS connector also makes the Dyna Drum S3 instantly compatible with Acclaim's celebrated Outdoor Link System™ (see page 11): the rapid-fit cabling solution your installers will never want to be without.

At a glance


Optics


3° x 3°
7° x 7°, 10° x 10°, 10° x 60°
20° x 20°
30° x 60°
40° x 40°
60° x 60°
100° x 100°

Note: The 3° x 3° beam features fewer emitters than the other options.


Emitters


RGBW
(W=3000K or W=4000K)

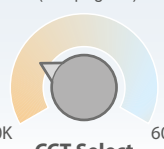

Dynamic White (DW)
(2200K to 5700K)

or

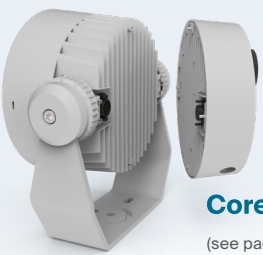

RGBA

or


RGBL plus


CCT Select
1800K 6000K

(see page 13)


CoreSwap
technology
(see page 15)

Power
100 to 277VAC
50/60Hz


Temperature
-40° F to 122° F
-40° C to 50° C


Output
Up to 5,650 lm


Core technologies
OutdoorLink system
ColorDrive technology
SpectrumFour technology
AcclaimModular systems
aria X2

Configure your product

DS3S -DS3E -DS30 -DS3P

Example final code: **DS3S1-DS3EY-DS30K-DS3PH**

Finish color:
1 = Black (RAL 9005)
2 = White (RAL 9003)
4 = Gray (RAL 7047)
7 = Custom* (RAL #)

Emitters:
T = RGBA
U = RGBW (W=3000K)
V = RGBW (W=4000K)
X = DW (2200K-5700K)
Y = RGBL with CCT Select

Optics:
A = 3° x 3° (native)
E = 7° x 7° (native)
C = 10° x 10°
D = 20° x 20°
H = 40° x 40°
K = 60° x 60°
M = 100° x 100°
Q = 30° x 60°
R = 10° x 60°

Output mode:
H = High Output
S = Standard Output

* indicates special order items, which may require longer lead times



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Specifications

Emitters	RGBW (W=3000K or 4000K), RGBA, Dynamic White (2200K to 5700K) or RGBL (+ CCT Select)
Optics	3° x 3°, 7° x 7°, 10° x 10°, 20° x 20°, 40° x 40°, 60° x 60°, 100° x 100°, 10° x 60° or 30° x 60°
Output	Up to 5,650 lumens
Lumen maintenance	L ₇₀ 130,000 hours (@ 25° C)
Control	0-100% dimming via wired DMX (with RDM configuration) plus built-in Aria™ X2 Wireless System
Maximum fixtures in series	32 via wired DMX. Power local to each fixture or use Acclaim's Outdoor Link System - see page 11
Operating voltage	100-277VAC, 50/60 Hz
Power consumption	110W (High Output model), 60W (Standard Output model)
Connection	Removable power and control cord (9 feet, 2.7m with bare wire tails) or use Outdoor Link System
Mounting	Surface mount yoke included. Tenon mount, pipe clamp and extender bar options available
Effective projected area	1.16 ft ²
Material	Die cast aluminum with glass lens, marine and natatorium environment ready
Finish colors	Gray (RAL 7047), black (RAL 9005), white (RAL 9003) or custom colors (provide RAL #)
Ambient temperature range	-40° F to 122° F (-40° C to 50° C)
Ingress protection	IP67, wet location (temporary submersion up to 1m for 30 minutes)
Impact protection	IK10, protection against 20 joule impact (40cm distance).
Vibration protection	ANSI C136.31, 3G-rated for high vibration and bridge applications
Surge protection	Built-in 10kV, 5kA I _n , 10kA I _{max} protection
Warranty	5 years, limited
Weight	19 lbs (8.61 kg)
Dimensions	See page 8
Certifications	    



Welcome to the Dyna Drum family...

... where consistent emitter and optic options across the E3, S3 and H3 sizes allow you to precisely mix and match fixtures within any installation.

White

High CRI, high output white emitters in a range of color temperatures.



 Output	Up to 3,900 lumens	Up to 9,455 lumens	Up to 27,344 lumens
 Emitters	2700K to 5700K, high CRI - consistent across the range		
 Optics	5° to 100° beam angles - consistent across the range		

Color

Quad RGBW emitters with a choice of white color temperatures to provide superior color mixing.



 Output	Up to 2,219 lumens	Up to 5,765 lumens	Up to 17,696 lumens
 Emitters	SpectrumFour QS, QW4 or QW6 - consistent across the range		
 Optics	8° to 100° beam angles - consistent across the range		

SCS

Individual emitters producing the narrowest beam angles for maximum punch in long-throw applications.



 Output	Up to 2,750 lumens	Up to 5,650 lumens	Up to 17,325 lumens
 Emitters	RGBW, RGBA, RGBL or DW - consistent across the range		
 Optics	3° to 100° beam angles - consistent across the range		

PROJECT

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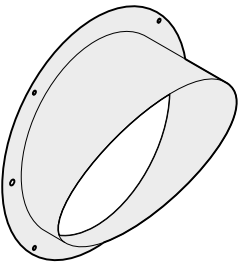
TYPE

QTY

Related components

Beam accessories

Half snoots



- Gray

Black

White

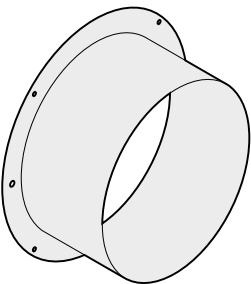
Custom*
- DS3HSG

DS3HSB

DS3HSW

DS3HSC

Full snoots



- Gray

Black

White

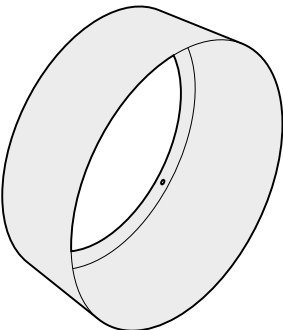
Custom*
- DS3FSG

DS3FSB

DS3FSW

DS3FSC

Wide snoots



- Gray

Black

White

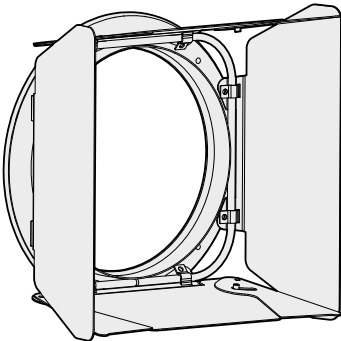
Custom*
- DS3WSG

DS3WSB

DS3WSW

DH3WSC

Barn doors



- Gray

Black

White

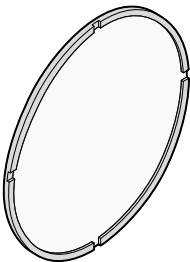
Custom*
- DS3BDAG

DS3BDAB

DS3BDAW

DS3BDAC

Spread lenses



- 10° beam

20° beam

40° beam

60° beam

100° beam

30° x 60° beam

10° x 60° beam
- DS3OC

DS3OD

DS3OH

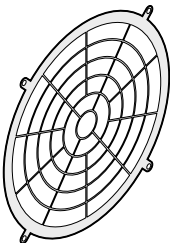
DS3OK

DS3OM

DS3OQ

DS3OR

Wire guards



- Gray

Black

White

Custom*
- DS3WGG

DS3WGB

DS3WGW

DS3WGC

* RAL # also required

PROJECT

FIRM

ORDER #

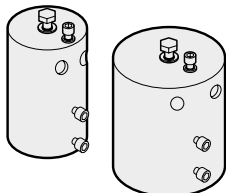
TYPE

QTY

Related components

Mounting accessories

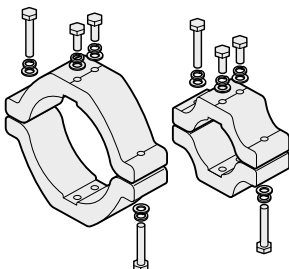
Tenon mounts



2" schedule 40 (2.51", 56mm inner dia.)
2" nominal (2", 51mm inner dia.)
3.5" schedule 40 (4.13", 105mm inner dia.)
4" nominal (4", 102mm inner dia.)

TM2 S40
TM2 NOM
TM4 S40
TM4 NOM

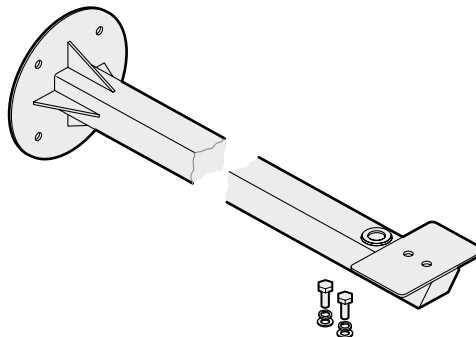
Pipe clamps



2" schedule 40
2" nominal
4" schedule 40
4" nominal

PC2 S40
PC2 NOM
PC4 S40
PC4 NOM

Extender arms



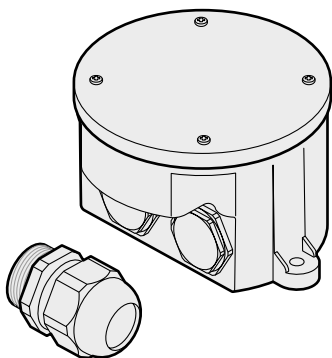
Fixture bolts and washers plus cable access seal included

	1'	2'	3'
Gray	OFLEB1G	OFLEB2G	OFLEB3G
Black	OFLEB1B	OFLEB2B	OFLEB3B
White	OFLEB1W	OFLEB2W	OFLEB3W
Custom*	OFLEB1C	OFLEB2C	OFLEB3C

*RAL # also required

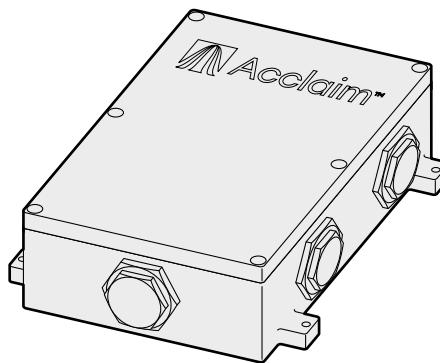
Junction boxes

AJBOX1 (IP66) junction box (plus outlet cable gland)



Part # **AJBOX1**
IP66 NEC compliant high and low voltage junction box with two sealed ½" input ports for AC & DMX plus NPT ¾" output port for OLSF# feed cable. Built-in AC surge protection up to 10kV and 10kA

AJBOX1 Extended (IP66) junction box



Part # **AJBOX1E#** (# = color)
IP66 NEC-compliant high and low voltage junction box with six sealed NPT ¾" access ports for conduit fixtures or cable glands (by others) for power and control plus OLSF# feed cable. Built-in AC surge protection up to 10kV and 10kA

PROJECT

FIRM

ORDER #

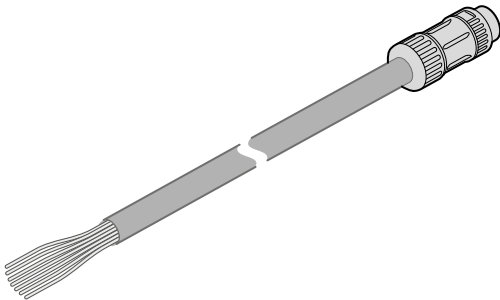
TYPE

QTY

Related components

Outdoor Linking System - See also pages 10, 11 and 12

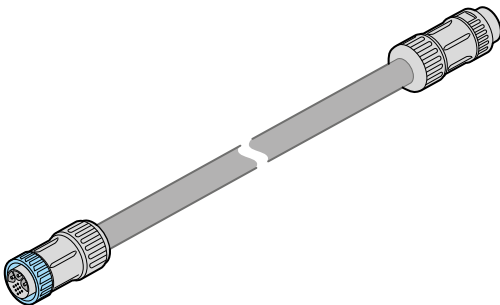
Feed cables



- | | |
|-------------|-------------------|
| 1' (30cm) | OLSF1#-V2 |
| 5' (1.5m) | OLSF5#-V2 |
| 10' (3m) | OLSF10#-V2 |
| 25' (7.6m) | OLSF25#-V2 |
| 50' (15.2m) | OLSF50#-V2 |

= color: G-Gray, B-Black, W-White, C-Custom (RAL# required)

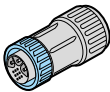
Link cables



- | | |
|-------------|-------------------|
| 1' (30cm) | OLSL1#-V2 |
| 5' (1.5m) | OLSL5#-V2 |
| 10' (3m) | OLSL10#-V2 |
| 25' (7.6m) | OLSL25#-V2 |
| 50' (15.2m) | OLSL50#-V2 |

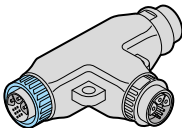
= color: G-Gray, B-Black, W-White, C-Custom (RAL# required)

End cap with DMX termination



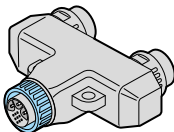
- | | | |
|-------|----------------|-------|
| Part# | OLSEC-B | Black |
| | OLSEC-W | White |

T-junction



- | | | |
|-------|----------------|-------|
| Part# | OLST2-B | Black |
| | OLST2-W | White |

Y-junction



- | | | |
|-------|----------------|-------|
| Part# | OLSY2-B | Black |
| | OLSY2-W | White |



PROJECT

 FIRM

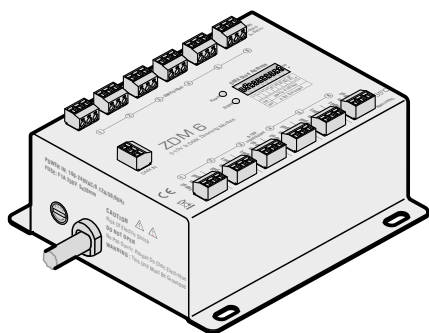
 ORDER #

 TYPE

 QTY

Related components

Signal converters (see page 14)



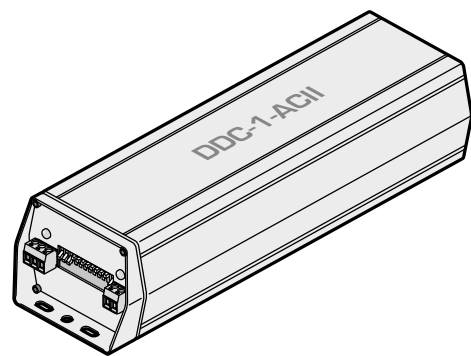
Multi-channel (0-10V) converter

ZDM6



DMXcat-E

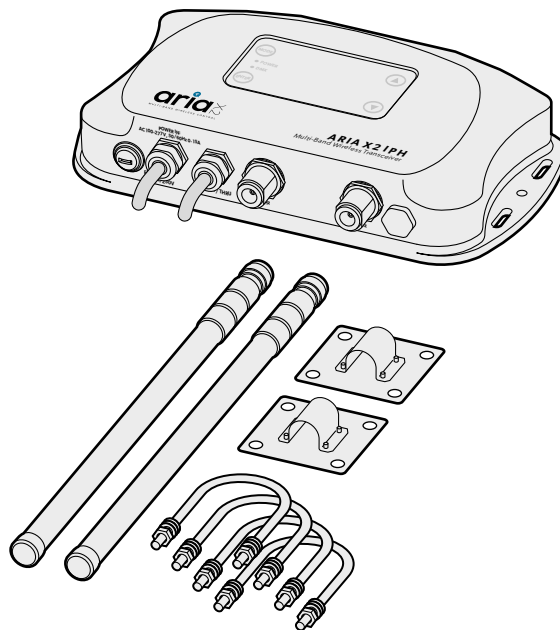
DMX/RDM, ArtNet, sACN, SMPTE LTC and Midi test/configuration tool



DALI multiple channel converter

DDC1AC

Wireless DMX transceiver



Aria X2 IPH multi-band wireless transceiver with two antennas, two antenna wall brackets and four U-bolts

AX2IPHT



PROJECT

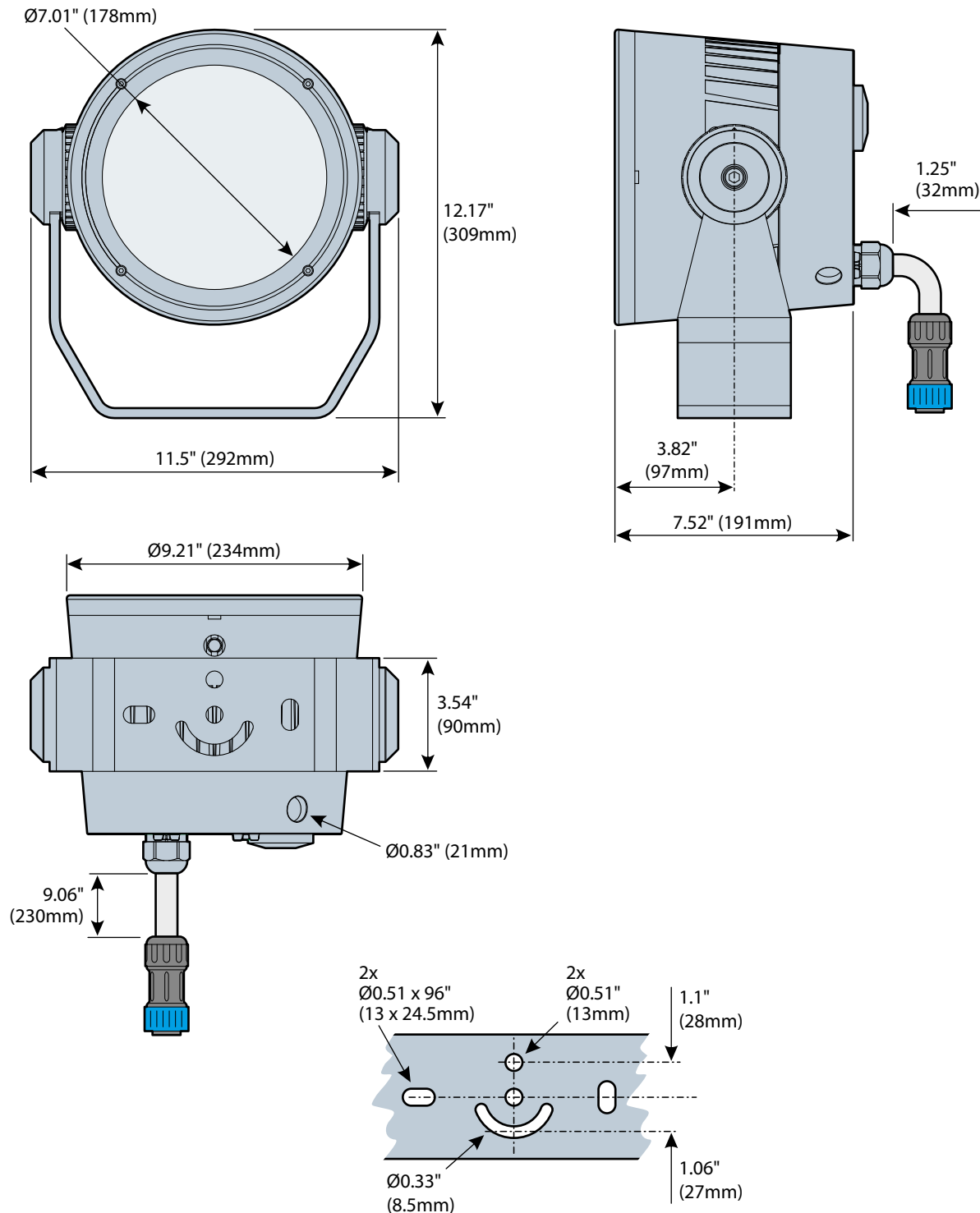
FIRM

ORDER #

TYPE

QTY

Dimensions



PROJECT

FIRM

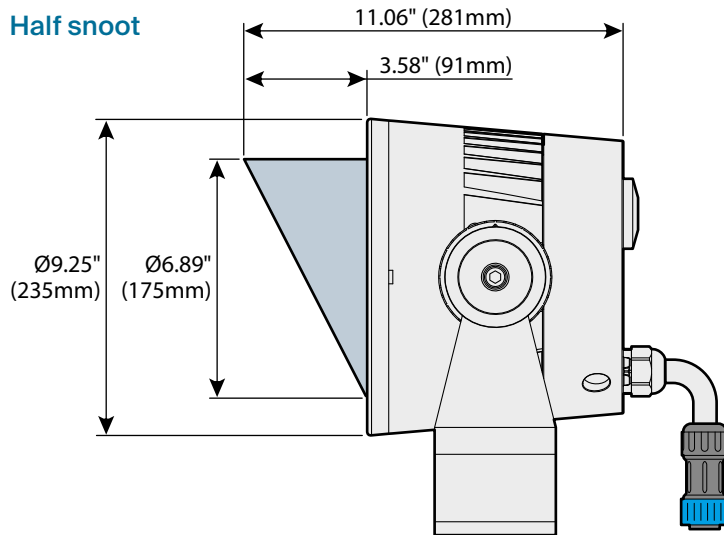
ORDER #

TYPE

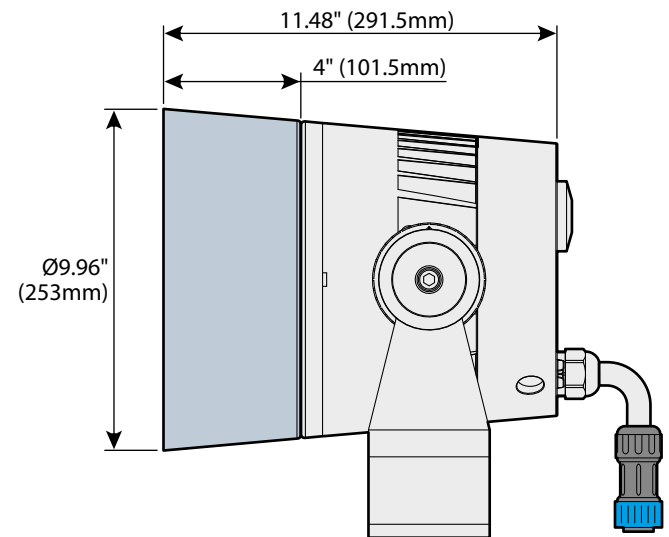
QTY

Dimensions

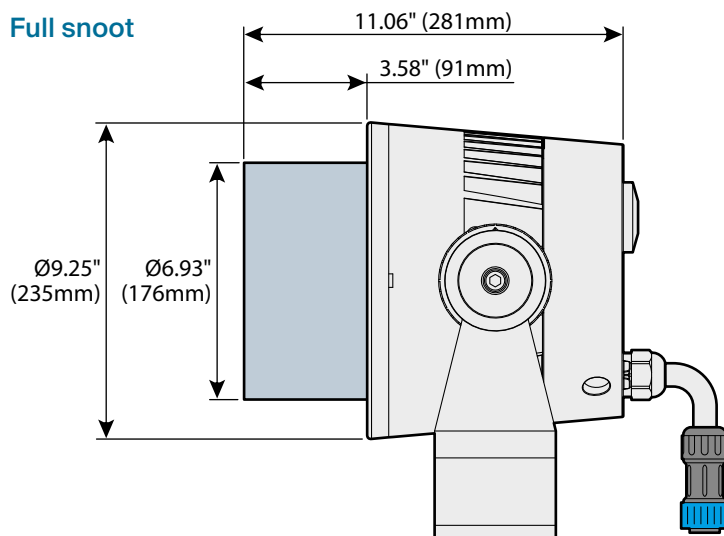
Half snoot



Wide snoot



Full snoot



PROJECT

FIRM

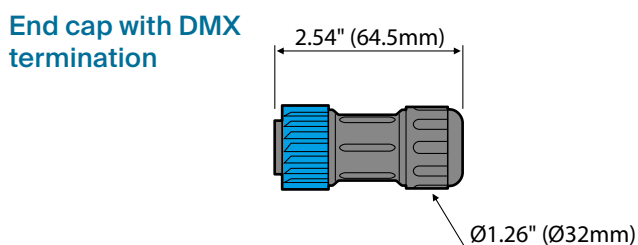
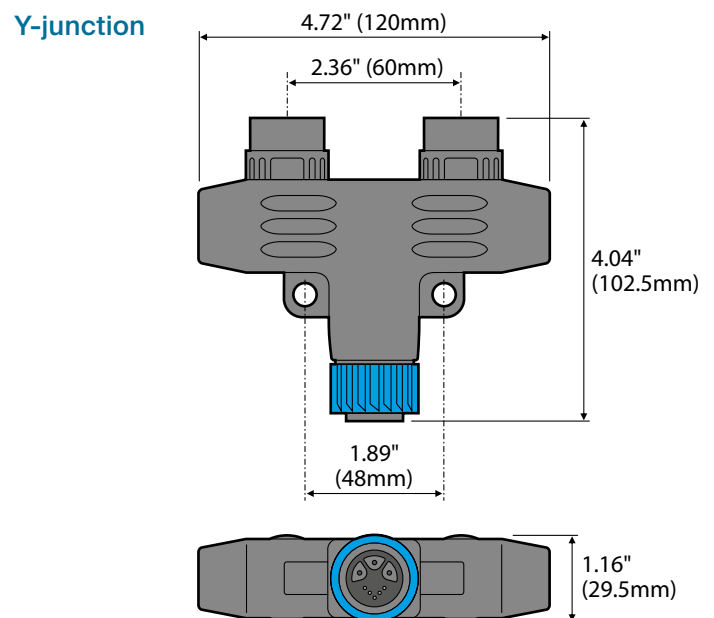
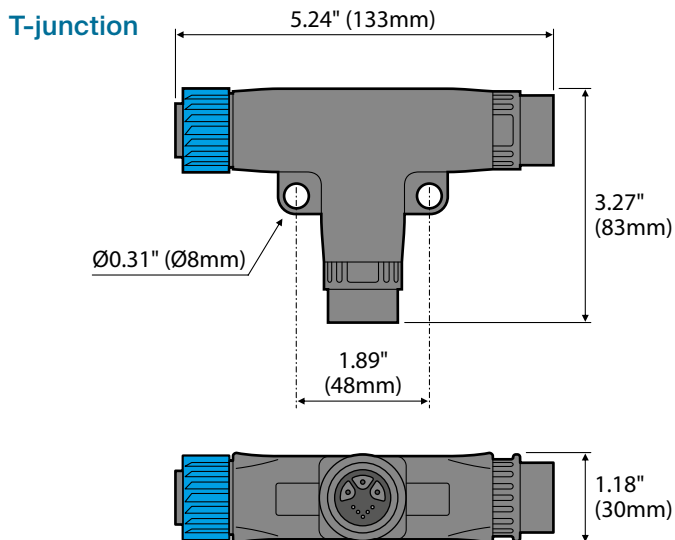
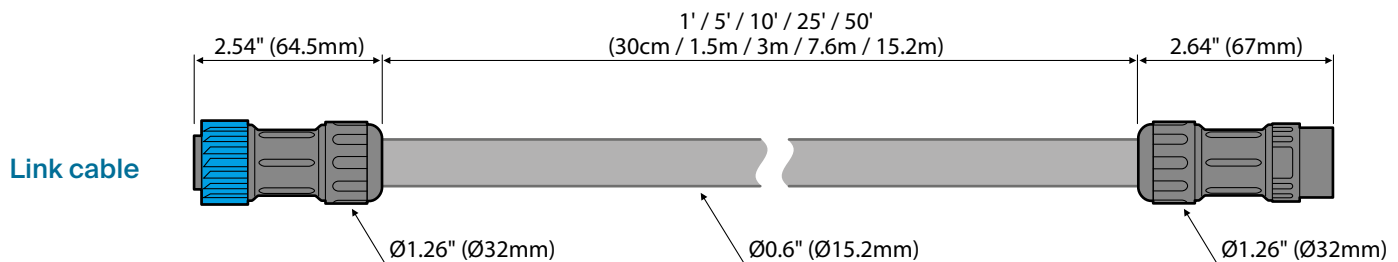
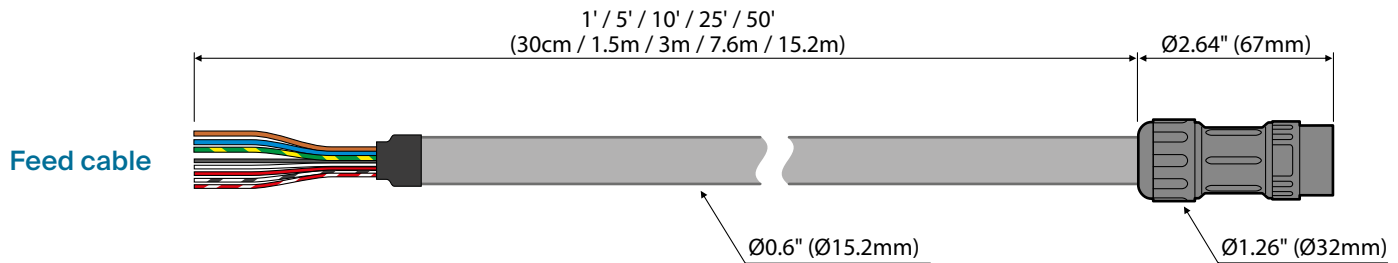
ORDER #

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Dimensions - OLS items

OutdoorLink^{system}



PROJECT

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ORDER #

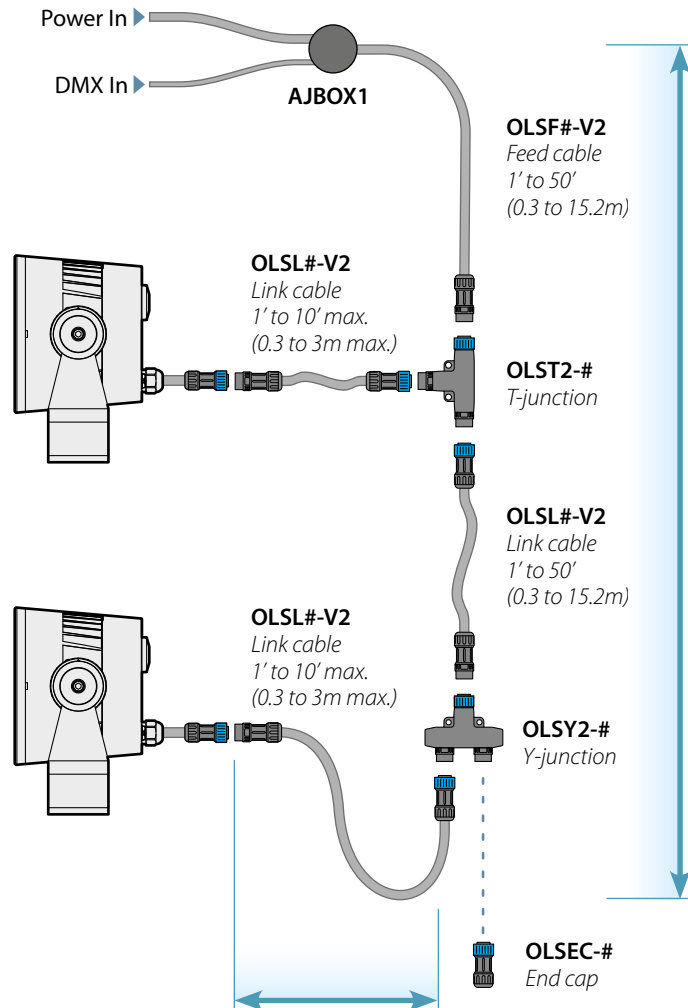
TYPE

QTY

Typical OLS configuration

The Dyna Drum S3 connector is directly compatible with the Outdoor Link System, which greatly simplifies the task of distributing power and control to multiple fixtures:

OutdoorLink system



The total length from a T-junction to a fixture must not exceed 10' (3m) in length.

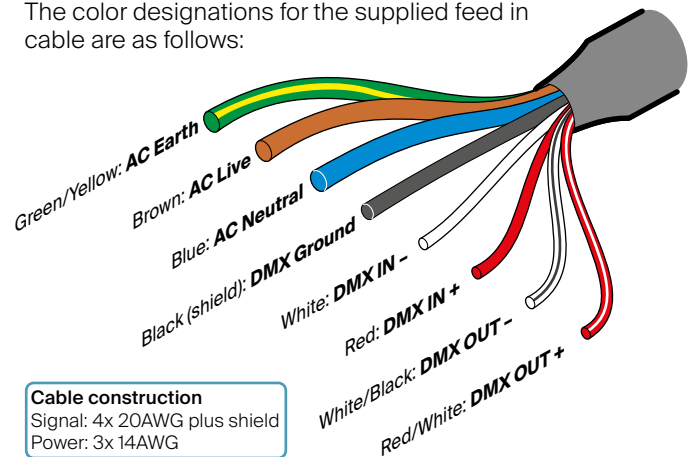
A terminator must be fitted to the final T-junction to simultaneously protect the live connections and correctly terminate the DMX control feed.

Maximum fixtures and cable lengths in a single OLS run:
 120VAC: 30x **SO** or 16x **HO** / 150'
 230VAC: 32x **SO** or 30x **HO** / 300'
 277VAC: 32x **SO** or 32x **HO** / 350'

Power and control wiring

Dyna Drum S3 models are supplied with a combined power and control cord (roughly 9 feet, 2.7m in length and with bare wire tails).

The color designations for the supplied feed in cable are as follows:



Cable construction

Signal: 4x 20AWG plus shield
 Power: 3x 14AWG

Power

The fixture power requirements are as follows:

- Voltage: 100-277VAC 50/60Hz
- Power: **110W** (High Output model),
60W (Standard Output model)

Note: Acclaim recommends taking proper precautions for external surge protection, as control and power electronics can be damaged by major events. Ensure that the mains power is supplied from a suitably protected source and initial connections are made within IP rated enclosures. Acclaim recommends Belden 9842 or approved equivalent for all DMX wiring applications.

Note: The Acclaim AJBOX1 includes internal surge protection circuitry.

Control wiring

DMX cable recommendations:

- Indoor exposed or in conduit above grade: Belden 9842
- Indoor plenum: Belden 82842
- Outdoor exposed, direct burial, or inside conduit below grade: Belden 3107DB

Alternatives must meet **all** of the following requirements:

- Construction**: Shielded, twisted pair (or multi-pair).
- Impedance**: Between 90 and 120Ω.
- Capacitance**: 15pF or less.



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OLS connectors

The Outdoor Link System uses matching IP67-rated connectors throughout, each of which combines AC power and DMX control. A simple color code is used:

- Connectors with blue collars are inputs,
- Connectors with black collars (white option available) are outputs.

The blue collars form the locking and release mechanism ➡

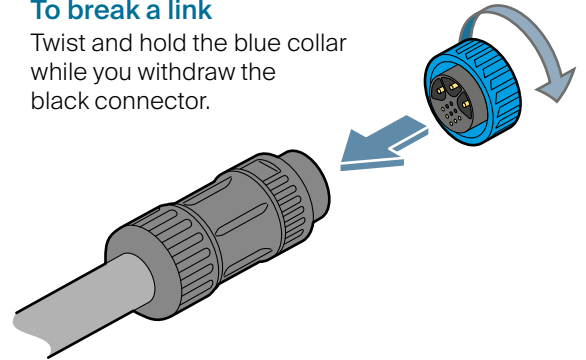
OutdoorLink system

To make a link

Simply align a black and a blue connector and push them together with a click.

To break a link

Twist and hold the blue collar while you withdraw the black connector.

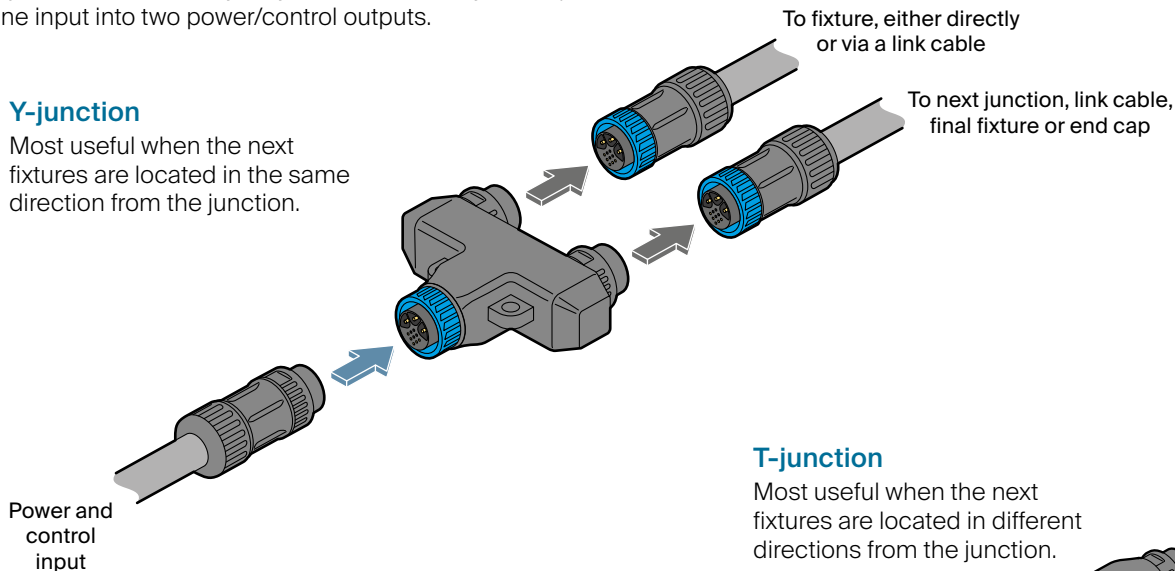


OLS Junctions

Two types of OLS junctions are available: T-junctions and Y-junctions. Electrically they are identical, they both split one input into two power/control outputs.

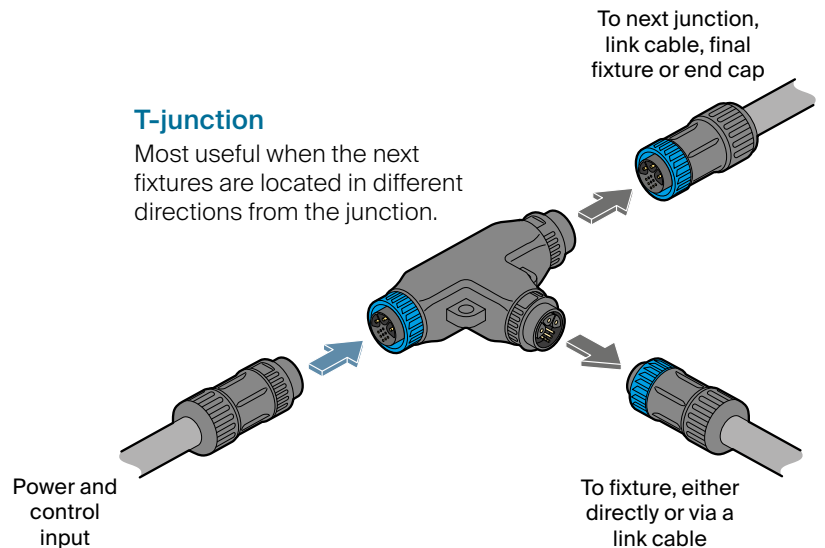
Y-junction

Most useful when the next fixtures are located in the same direction from the junction.



T-junction

Most useful when the next fixtures are located in different directions from the junction.



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CCT Select color mixing

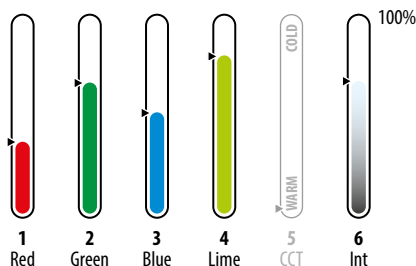
Dyna Drum S3 fixtures with the RGBL emitter option allow you to mix saturated and pastel colors in addition to calling up any color temperature of white (using a dedicated CCT control channel). The special mode uses six channels to provide full control.

Mixing saturated and pastel colors individually

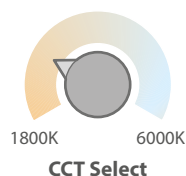
Use DMX channels 1 to 4 to mix the required shade.

Use channel 6 to determine the overall output intensity.

Note: Channel 5 must be at zero.



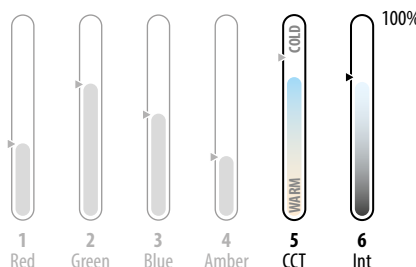
Choosing a temperature of white



Use DMX channel 5 to select the required correlated color temperature (CCT) ranging from 1800K (at 1%) to 6000K+ (at 100%).

Use channel 6 to control the overall output intensity.

Note: When channel 5 receives any value other than zero, the input values of channels 1 to 4 will be ignored.



DMX value	Color temp
0	Off
001-004	1800K
005-008	1900K
009-012	2000K
013-016	2100K
017-020	2200K
021-024	2300K
025-028	2400K
029-032	2500K
033-036	2600K
037-040	2700K
041-044	2800K
...	...

16-bit control

To provide even finer dimming responses, Dyna Drum S3 fixtures also feature a 16-bit version of the above control mode. Using 11 channels in total, each color (plus the intensity) uses high and low bytes (2 channels each) to enact 65,536 dimming steps rather than the usual 256. The CCT Select channel remains as a single 8-bit word.

Note: A full list of DMX values for each color temperature are provided in the Dyna Drum S3 user guide.



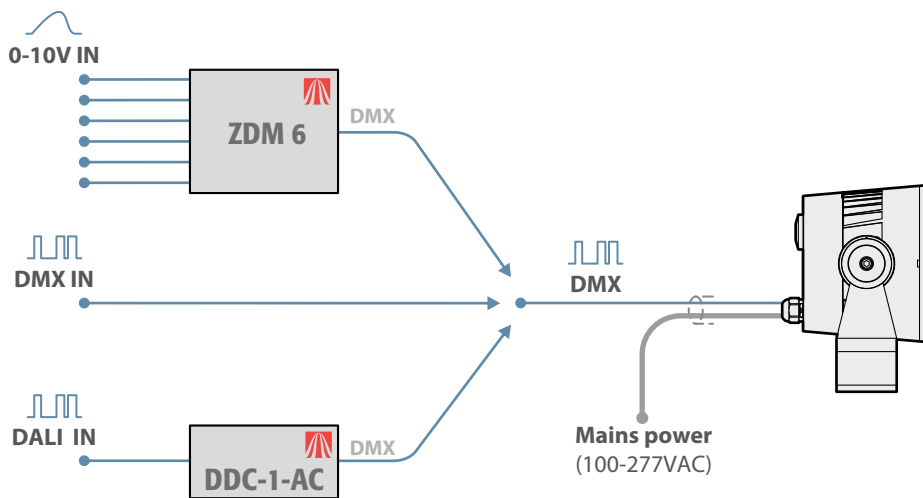
PROJECT	FIRM	ORDER #	TYPE	QTY
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Alternative control inputs

Dyna Drum S3 fixtures 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

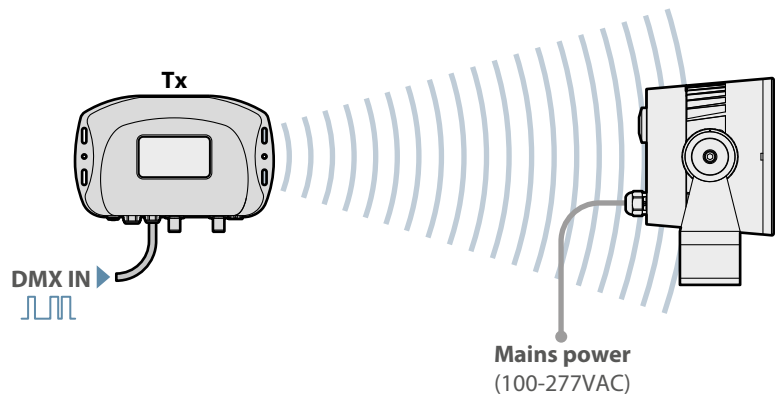
- DMX - connect a DMX input directly to the feed cable.
- 0-10V - use an Acclaim Lighting ZDM 6 to convert one or more analog control feeds into a combined DMX feed.
- DALI - use an Acclaim Lighting DDC-1-AC to convert one or more DALI channels into a combined DMX feed.



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. 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).

Wireless DMX control

Each Dyna Drum S3 fixture contains an Aria X2 wireless DMX receiver as standard, which can greatly simplify the deployment of multiple fixtures in spaces that contain no control wiring infrastructure. A single Aria transmitter can control unlimited Dyna Drum S3 fixtures, at distances up to 2,000 feet (609m).



PROJECT

 FIRM

 ORDER #

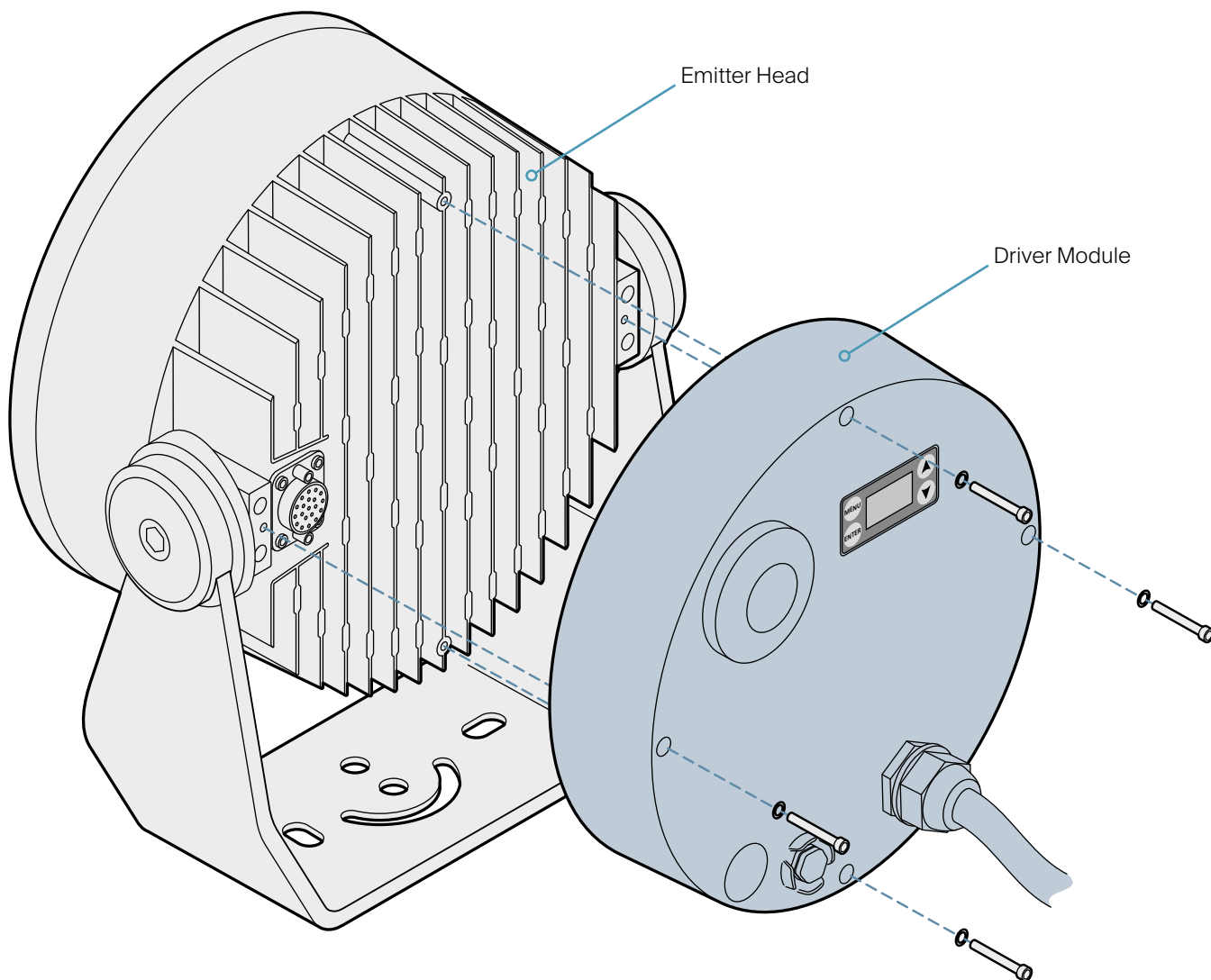
 TYPE

 QTY

Modular flexibility

Like all Acclaim Lighting products, Dyna Drum S3 fixtures are designed and built for the long haul in professional environments. In the unlikely event of failure during the lifetime of a fixture, it is reassuring to know that a solution is ready to return to 100% operation in the shortest possible downtime. Our **CoreSwap Technology** ensures that only the affected module need ever be swapped out, whether that be in our service center or at your on-site installation.

CoreSwap 
technology



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

