

PROJECT

FIRM

ORDER #

TYPE

QTY



Clear flat



Diffused flat

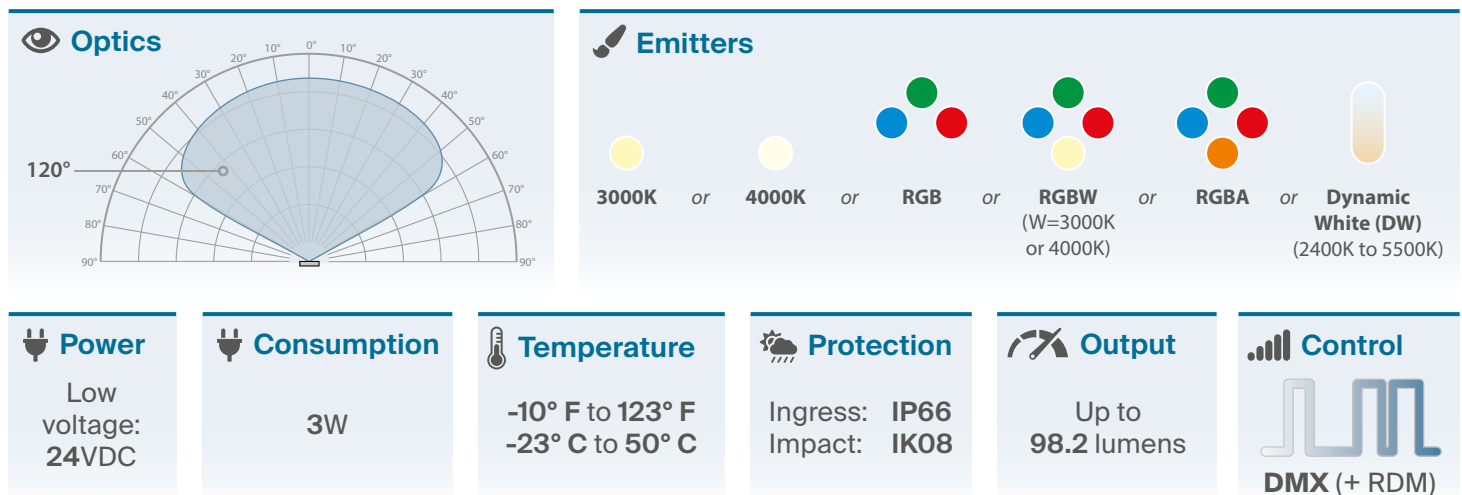


Diffused dome

AL Dots™ are great building blocks for creating low-resolution graphic displays or wherever individual dots of light are required. Each AL Dot can be quickly linked directly to its neighbor thanks to integral hybrid (low voltage plus control) cabling. The all-aluminum construction is rated to IP66 for wet location use and the integral locking rings make mounting into panels straightforward. With a power-take of only 3W per unit, up to fifty AL Dots can be incorporated into a single run.

A wide choice of emitter types, together with three lens options allow you to achieve the precise clear or diffused appearance for your project. DMX control (together with RDM) makes it simple to remotely configure every AL Dot in situ and to combine them with any industry-standard control solution.

At a glance



Configure your product

ADO - 21 - AA N

Example final code: **ADO-212-AARN**

Lens cover:

- 1 = Clear flat
- 2 = Diffused dome
- 3 = Diffused flat

Emitters:

- C = 3000K
- E = 4000K
- H = RGB
- L = QS (RGBW, W=3000K)
- R = QW4 (RGBW, W=4000K)
- T = RGBA
- X = Dynamic White (2400K-5500K)

SCAN
FOR
PRODUCT
PAGE



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Specifications

Emitters	3000K, 4000K, RGB, QS (RGBW, W=3000K), QW4 (RGBW, W=4000K), RGBA, Dynamic White (2400-5500K)
Optics	120° native beam angle
Output	Up to 98.2 lumens (4000K, full on, clear flat)
Lumen maintenance	L ₇₀ 150,000 hours (@ 25° C)
Control	0-100% dimming via wired DMX (with RDM configuration)
Maximum fixtures in series	50 units, 100' (30m) maximum fixture/cable length
Operating voltage	24VDC
Power consumption	3W
Connection	Attached IP67 multipin connectors, 5-conductors carrying DC power plus DMX
Mounting	Aluminum attachment ring, 1.96" (50mm) hole cut
Material	Aluminum body, acrylic lens
Finish	Silver
Ambient temperature range	-10° F to 123° F (-23° C to 50° C)
Ingress protection	IP66, wet location
Impact protection	IK08, protection against 5 joule impact (30cm distance)
Warranty	5 years, limited
Dimensions	See page 5
Weight	0.77 lbs (350g)
Certifications	 

Photometrics

For all available IES files, please visit acclaimlighting.com/al-dot

Color / color temperature	Lumens	Center Candela	Efficacy (lm/W)	CRI (Ra)	CRI (r9)
RGB (clear flat)	31.8	11.8	23.26	-	-
3000K (clear flat)	75.1	27.7	55.22	83.1	10
4000K (clear flat)	98.2	34.5	71.47	77.4	-15.3



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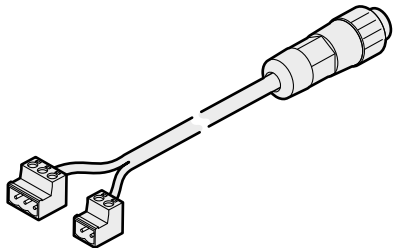
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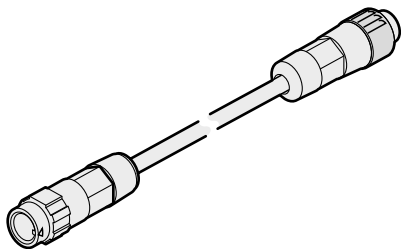
Related components

Feed cable



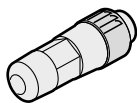
10' (3m) ADOFC10

Link cables



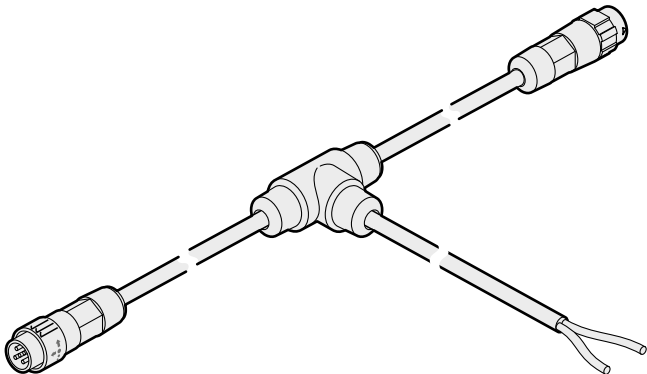
1' (30cm) ADOLC1
5' (1.5m) ADOLC5
10' (3m) ADOLC10

End cap



End cap ADOEC

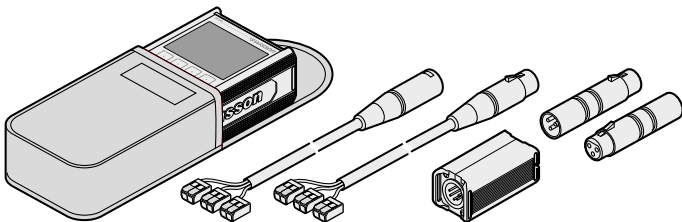
T cable



(extends DMX control while injecting a new 24VDC line)

T cable ADOT1

Test and configuration tool kit



XMT-500
DMX/RDM, ArtNet and sACN test/configuration tool with cable dangle, 3/5-pin converters, bare cable connectors and pouch



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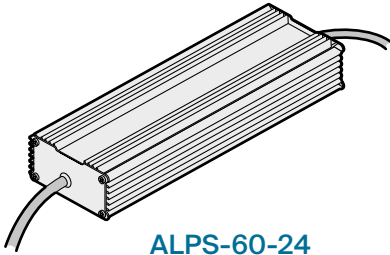
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Related components

Power supplies

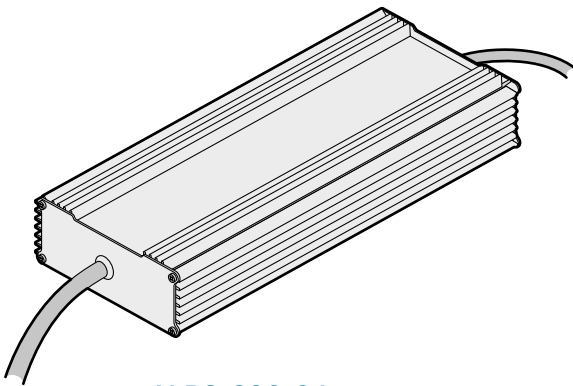


ALPS-60-24

60W 24VDC
20x AL Dots maximum
IP66 ingress protection
100-277VAC 50/60Hz
Part # **ALPS-60-24**

ALPS-96-24

96W 24VDC
32x AL Dots maximum
IP66 ingress protection
100-277VAC 50/60Hz
Part # **ALPS-96-24**



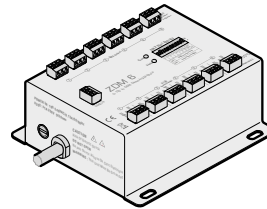
ALPS-200-24

200W 24VDC
66x AL Dots maximum
IP66 ingress protection
100-277VAC 50/60Hz
Part # **ALPS-200-24**

ALPS-400-24

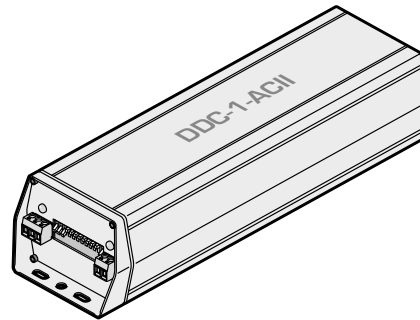
400W 24VDC
133x AL Dots maximum
IP66 ingress protection
100-277VAC 50/60Hz
Part # **ALPS-400-24**

Signal protocol converters (see page 7)



0-10V multiple channel converter

ZDM 6



DALI multiple channel converter

DDC 1AC



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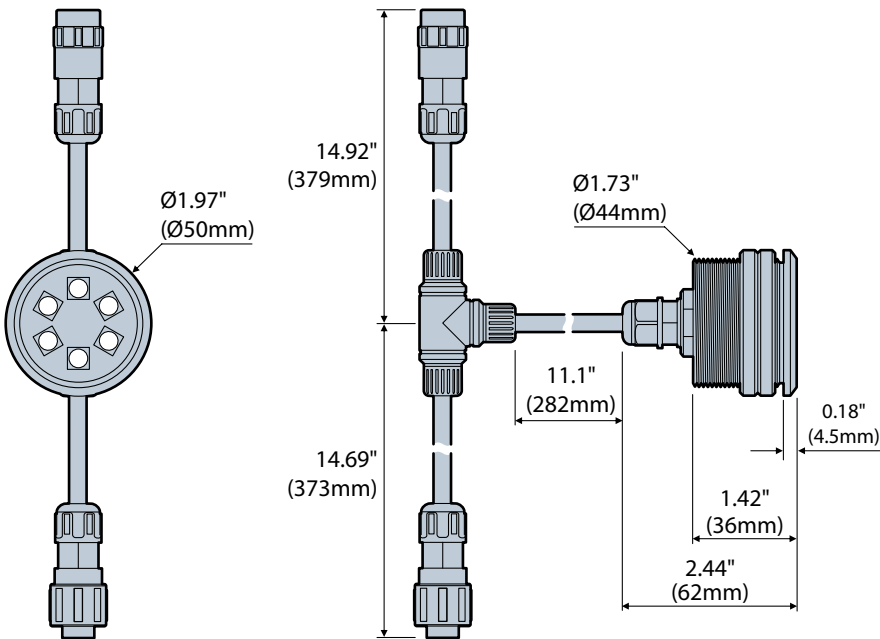
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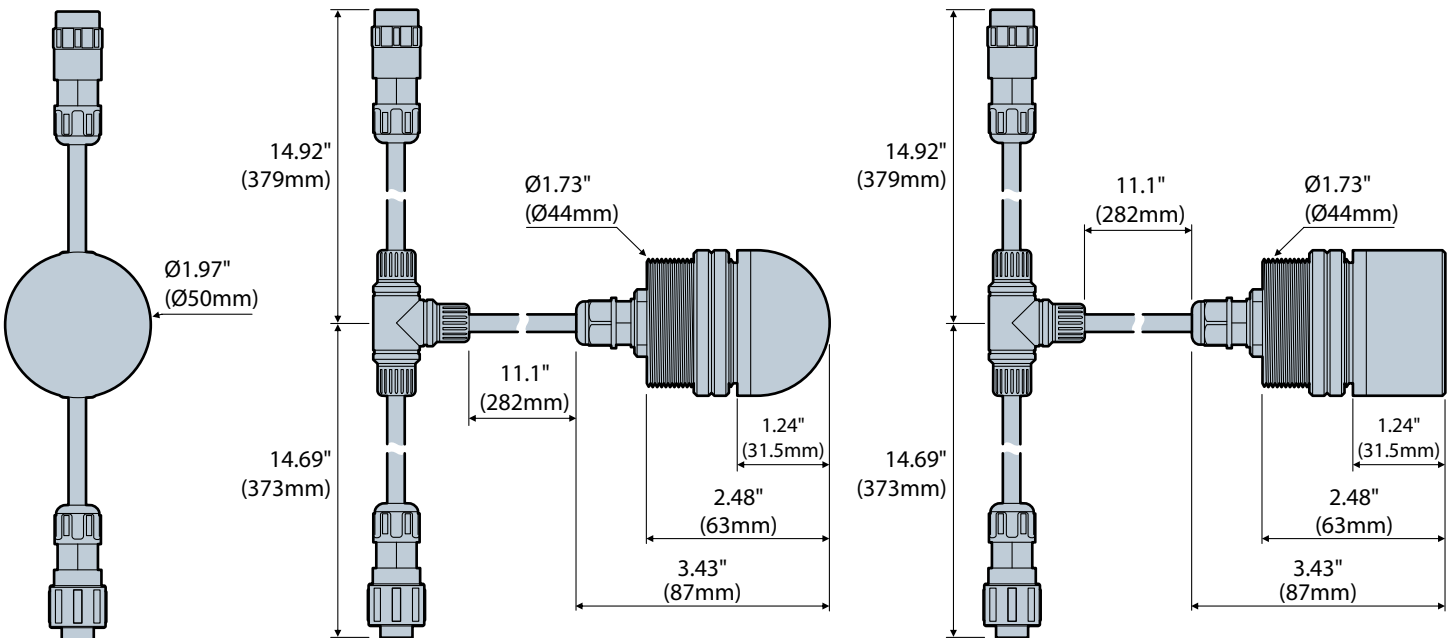
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Dimensions

Clear flat lens model



Diffused domed and flat lens models



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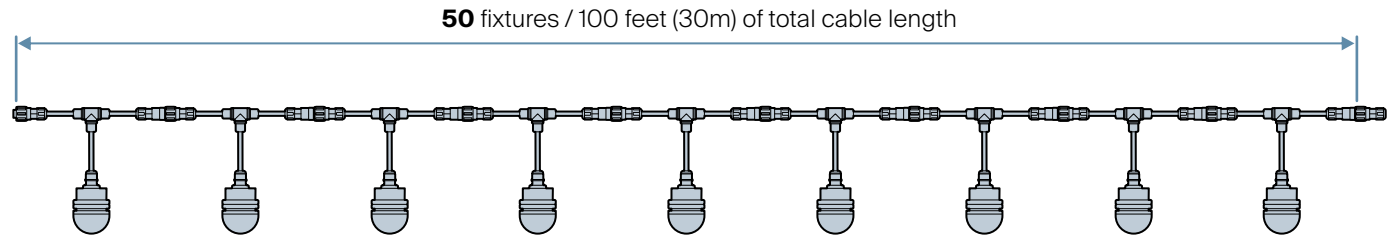
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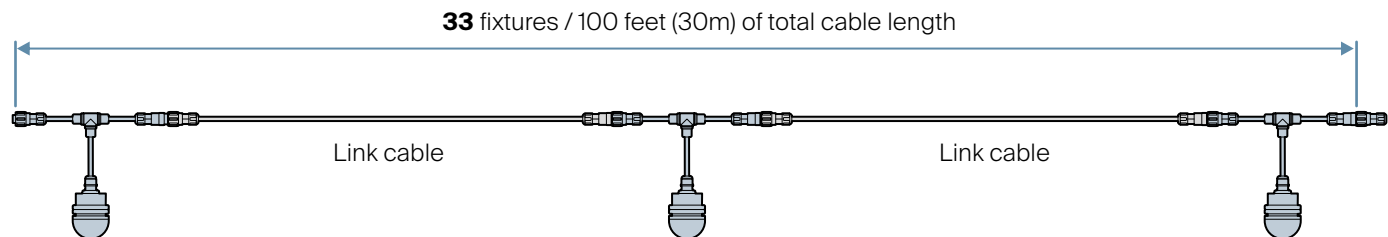
AL Dot wiring

The maximum number of fixtures that can be connected in a single series run is 50 when they are directly connected to each other (which will result in their total cable length being 100 feet (30m):



Where greater distances are required between AL Dots, you can use extra link cables. However, the total number of AL Dot fixtures must be reduced accordingly so that the total cable run does not exceed 100 feet (30m).

For instance, if 1' (30cm) link cables were used between each of the AL Dot fixtures, the total number of fixtures would need to be reduced to 33:



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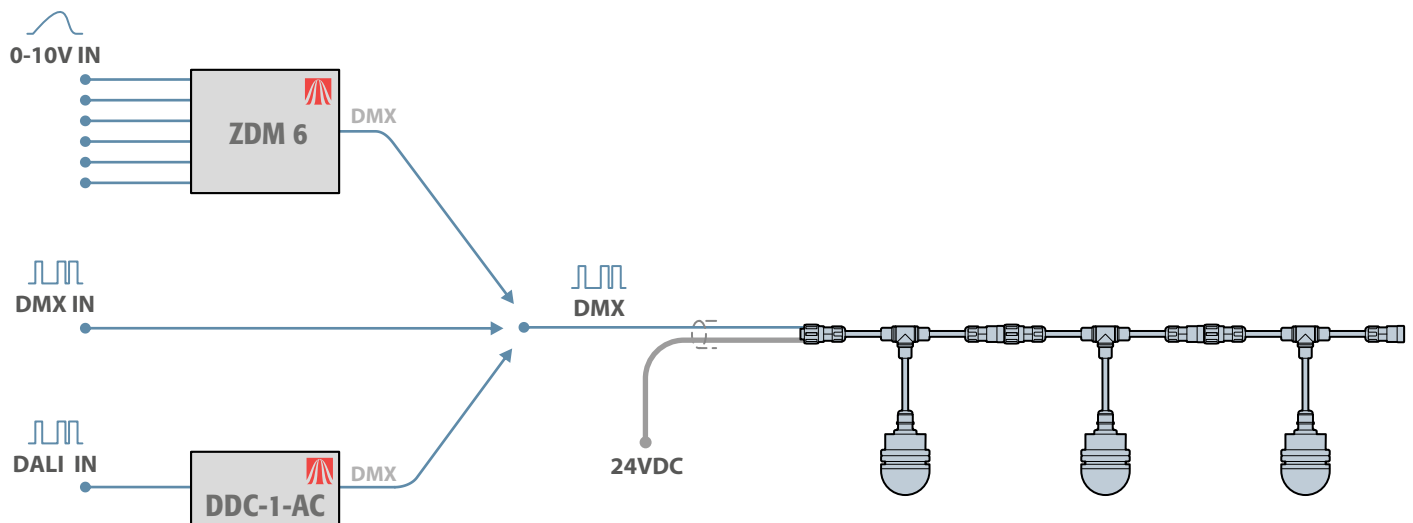
QTY

Alternative control inputs

AL Dots 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 AL Dots 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).

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

