



MAXILED DOT 102 · 180° VIEWING

MaxiLED DOT 102 / 180° Viewing

Same pixel-scale platform as the Direct View, with a **180° dome** for wide viewing angles — the pick for marker arrays and matrix screens seen from multiple approaches. Patented 2-wire DMX-over-power over MaxiLINK, IP67 rated for permanent outdoor install.

- IP67
- IK07
- 48 VDC SELV
- DMX 512
- 180° VIEW
- 5-YEAR WARRANTY



WATTAGE	LUMENS (IW)	BEAM ANGLES	MAX STRAND	OPERATING TEMP
4.8 W	250 lm	180° dome (wide)	50 units (1.5 mm ²)	-25 to +50 °C

SPECIFICATIONS · OVERVIEW · KEY FEATURES

QUICK SPECIFICATIONS

PRODUCT CODE	DOT-102-180
POWER INPUT	48 VDC SELV
WATTAGE PER UNIT	4.8 W
LED CURRENT	200 mA
COLOR SYSTEM	DMX 512 RGBW · Intelligent White
LUMENS (RGBW CLEAR)	150 lm
LUMENS (INTELLIGENT WHITE)	250 lm
VIEWING ANGLE	180° dome (wide)
MAX FIXTURES PER STRAND	50 units (1.5 mm²)
MAX STRAND LENGTH	100 m (330 ft)
IP RATING	IP67
IMPACT PROTECTION	IK07
OPERATING TEMP	-25 to +50 °C
FLYLEAD	500 mm supplied
WARRANTY	5 years

OVERVIEW

The MaxiDOT 102 180° extends the pixel-scale platform to wide-angle viewing — a domed lens for marker arrays and matrix graphics seen from multiple approach angles. Same install kit, same MaxiLINK backbone, same 4.8 W footprint — just a different optical form.

KEY FEATURES

- 01

Wide-angle pixel
180° polycarbonate dome makes each fixture legible from a wide range of viewing angles — ideal for building facades seen from pedestrian, vehicular and elevated approaches.
- 02

Patented 2-wire DMX-over-power
MaxiLINK runs 48 VDC + DMX 512 on the same two conductors. Install as fast as a static run — no data cable, no repeaters.
- 03

Interchangeable install
Same back plate and grub-screw fixing method as the Direct View variant. Retrofit or mix DV and 180° on the same MaxiLINK strand as the design requires.
- 04

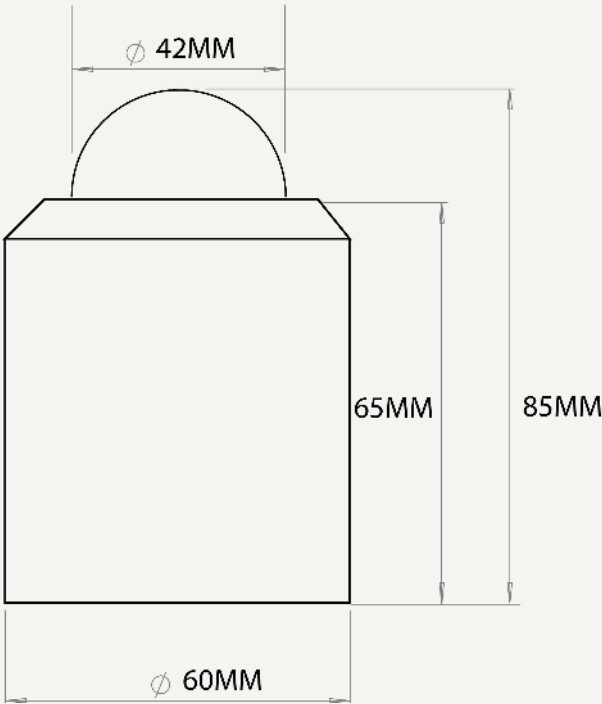
Sealed for outdoor architectural exposure
IP67 rated (dust-tight, temporary water immersion tolerance), IK07 impact rating and UV-stable polycarbonate dome survive permanent outdoor install.

DIMENSIONS · PHYSICAL ENVELOPE

Dimensions and physical envelope.

DOT-102-180 · SCALED DRAWING

MM (INCHES) · NTS



BODY Ø	DOME Ø	TOTAL HEIGHT	WEIGHT
60 mm (2.36")	42 mm (1.65")	85 mm (3.35")	400 g (14.1 oz)

Note. Drawings are not to scale. Confirm mounting cutout and clearance against the physical fixture before finalising fabrication drawings.

CERTIFICATIONS



INSTALLATION • STEP-BY-STEP

Installation procedure.

DOT-102-180 • INSTALLATION FIGURES

4 STEPS • NTS

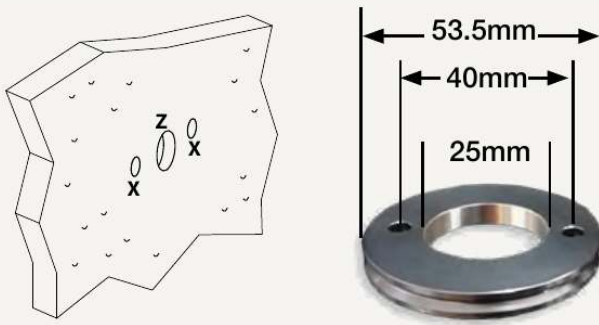


Figure 1

Mark out the surface

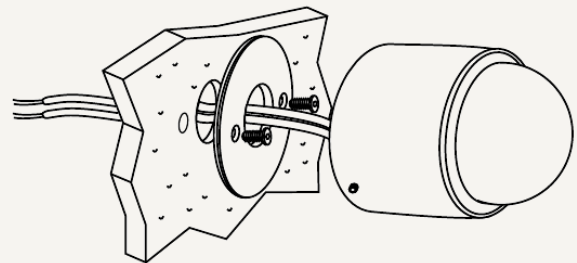


Figure 2

Fix back plate to surface



Figure 3

Secure to back plate

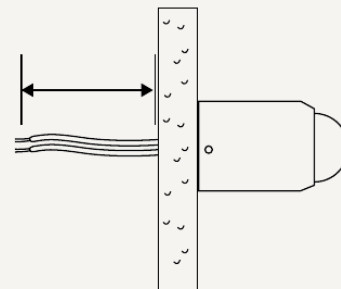


Figure 4

Connect flylead • ELR

01

Mark out the surface. Using the DOT back fixing plate as a template, mark two **fixing holes (X)** at **40 mm centres** and a single **flylead hole (Z)** in the middle for the 500 mm cable to feed through. Fixing plate diameter is **53.5 mm**. Drill the two X holes for the wall fixings and drill the Z hole large enough to accept the flylead.

02

Fix back plate to surface. Feed the 500 mm flylead through the back fixing plate, then through the Z hole in the wall. Secure the back plate to the surface using suitable wall fixings — orient the countersunk screw entry **facing the fixture** (outward) so the DOT can slide onto it later.

— INSTALLATION · CONTINUED

Installation procedure.

DOT-102-180 · STEPS CONTINUED

STEPS 03 – 04

03

Secure DOT to back plate. Slide the MaxiDOT body onto the mounted back plate. Using the supplied **hex key**, tighten the grub screw on the side of the housing to lock the fixture onto the back plate. The housing must sit flush against the surface with no gap.

04

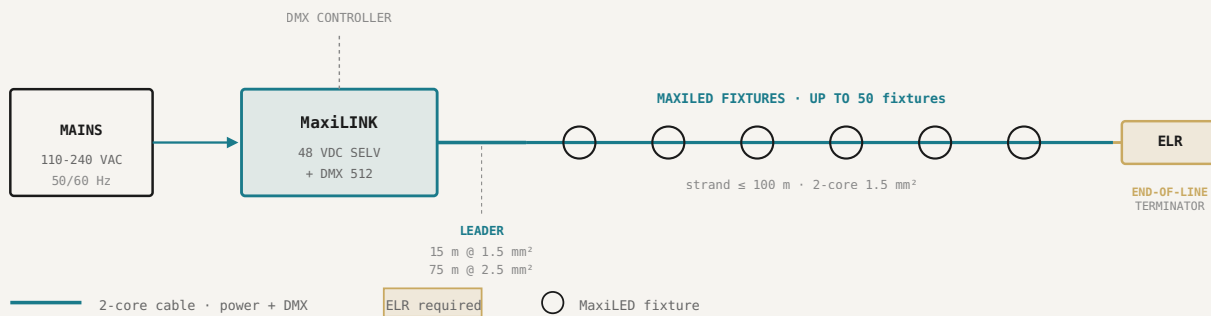
Repeat · connect · terminate. Repeat Steps 1–3 for each fixture along the strand. Cut off any excess flylead and connect to the MaxiLINK 48 VDC + DMX supply using appropriate connectors — **qualified electrician required**. Install the **ELR (End-of-Line Resistor)** on the last fixture to terminate the DMX bus.

Note. Installation must be carried out by a qualified electrician per local electrical and construction codes.

WIRING · MAXILINK · STRAND PLANNING

Wiring and strand planning.

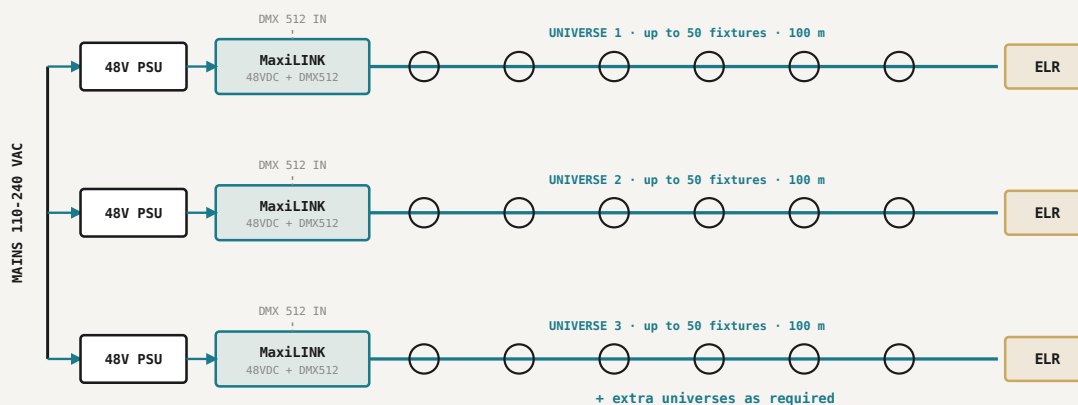
DOT-102-180 · MAXILINK 2-CORE DISTRIBUTION



USA / UL installations: insert Junction Boxes (supplied by others) between MAINS/PSU and MaxiLINK per code – ROW installs may connect direct

MaxiLINK carries 48 VDC + DMX 512 on the same 2-core cable. **Leader:** max 15 m on 1.5 mm² · 75 m on 2.5 mm² from MaxiLINK source to first fixture. **Strand:** max **50 fixtures** per PSU on 1.5 mm² cable (max run 100 m first-to-last). **Junction boxes** shown between Controller, PSU 48 V UL Approved and MaxiLINK UL Approved are **required for USA / UL installations only** – ROW installs may connect direct. **ELR (End-of-Line Resistor)** mandatory on the last fixture of every DMX strand.

DOT-102-180 · MULTIPLE DMX UNIVERSES · ONE MAXILINK + PSU EACH



For layouts beyond a single universe (one universe = up to 50 fixtures), add **one MaxiLINK + 48 V PSU per additional universe**, each fed from a common mains supply and terminated with its own **ELR** on the last fixture.

— ORDER CODES · BUILD THE SKU

Order codes — specify by segment.

DOT-102-180 CONFIGURATOR

LEFT → RIGHT · CONCATENATE WITH HYPHENS

01 PRODUCT MaxiLED DOT 102 180° DOT-102-180	02 LED DMX RGBW RGBW Intelligent White IW	03 FINISH Black B Silver S RAL RAL	04 CABLE MaxiSEAL Black MSB Silver MSS	05 END-OF-LINE ELR (mandatory on last fixture) ELR
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ORDER-CODE EXAMPLES

EX 1 DOT-102-180-RGBW-B-MSB-ELR

180° view, DMX RGBW, Black anodized, MaxiSEAL Black cable, ELR

EX 2 DOT-102-180-IW-S-MSS-ELR

180° view, Intelligent White, Silver anodized, MaxiSEAL Silver cable, ELR

Note. Cable harness spacings are made-to-order (factory-fitted). Provide desired center-to-center spacing on order confirmation. ELR mandatory on the last fixture of every DMX strand.