



MAXILED DOT 302 · 180° LARGE

MaxiLED DOT 302 / 180° Large

The large-format 180° marker — Ø 138 mm body, 14.4 W of power, up to 750 lm in Intelligent White. Built for high-impact facade installations where each pixel needs to read at long distance: stadium facades, landmark buildings, large-scale matrix graphics.

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



WATTAGE	LUMENS (IW)	BEAM ANGLES	MAX STRAND	OPERATING TEMP
14.4 W	750 lm	180° dome (wide)	16 units (1.5 mm ²)	-25 to +50 °C

SPECIFICATIONS · OVERVIEW · KEY FEATURES

QUICK SPECIFICATIONS

PRODUCT CODE	DOT-302-180
POWER INPUT	48 VDC SELV
WATTAGE PER UNIT	14.4 W
LED CURRENT	200 mA
COLOR SYSTEM	DMX 512 RGBW · Intelligent White
LUMENS (RGBW CLEAR)	450 lm
LUMENS (INTELLIGENT WHITE)	750 lm
VIEWING ANGLE	180° dome (wide)
MAX FIXTURES PER STRAND	16 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 302 180° is the large-format sibling of the 102 series — Ø 138 mm body, 14.4 W and up to 750 lm in Intelligent White. When each pixel must be visible at long distance — stadium facades, tower buildings, landmark installations — the 302 delivers the punch while sharing the same MaxiLINK backbone as the 102 platform.

KEY FEATURES

- 01

Long-distance pixel
Ø 138 mm body with 180° dome and 750 lm Intelligent White output makes each marker legible at long viewing distances — stadiums, towers, landmark facades.
- 02

Three-times the power
14.4 W per fixture — 3× the output of the 102 series. When the site demands high-brightness pixels, the 302 delivers without changing platform.
- 03

Same MaxiLINK backbone
48 VDC + DMX 512 over the same 2-core cable as the 102 series. Mix 102 and 302 pixels on the same strand if the design calls for it.
- 04

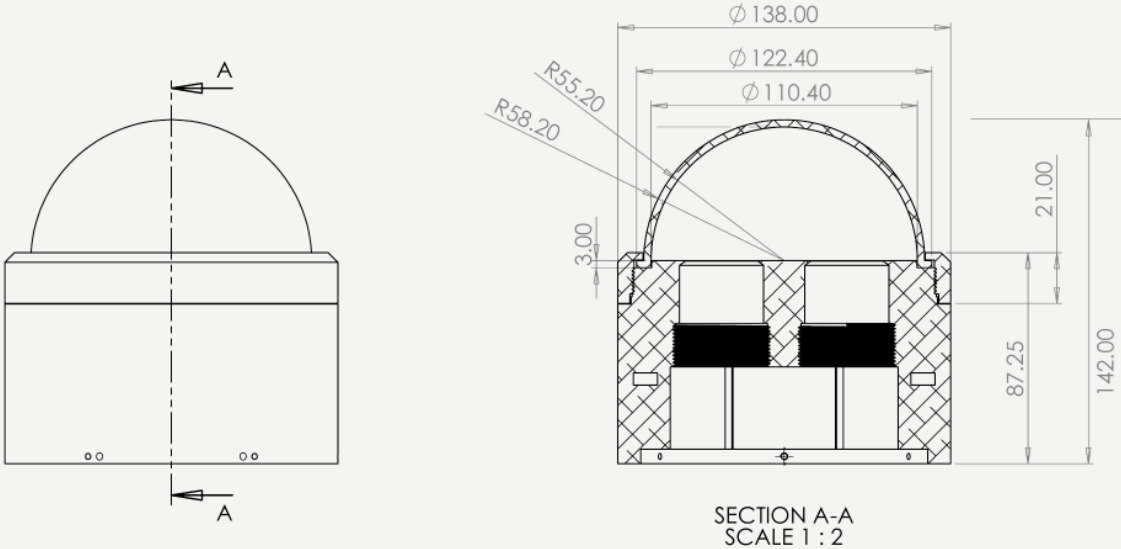
Sealed for outdoor architectural exposure
IP67 rated (dust-tight, temporary water immersion tolerance), IK07 impact rating and UV-stable polycarbonate dome survive permanent outdoor install.

DIMENSIONS · PHYSICAL ENVELOPE

Dimensions and physical envelope.

DOT-302-180 · SCALED DRAWING

MM (INCHES) · NTS



BODY Ø	DOMES Ø	TOTAL HEIGHT	WEIGHT
138 mm (5.43")	122.4 mm (4.82")	142 mm (5.59")	1000 g (35.3 oz)

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

CERTIFICATIONS

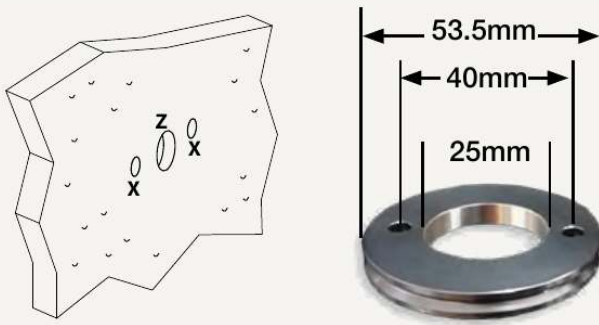


— INSTALLATION • STEP-BY-STEP

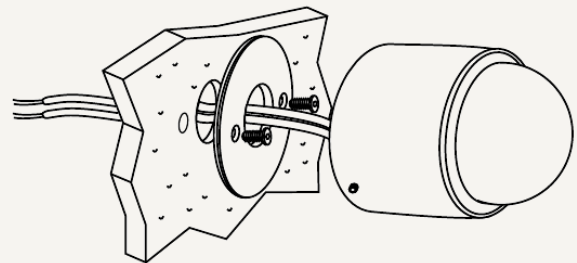
Installation procedure.

DOT-302-180 • INSTALLATION FIGURES

4 STEPS • NTS

**Figure 1**

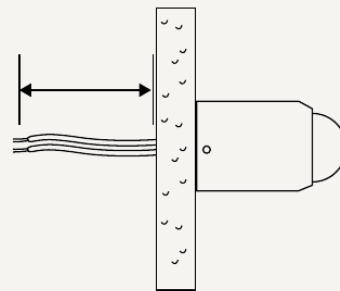
Mark out the surface

**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-302-180 • 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

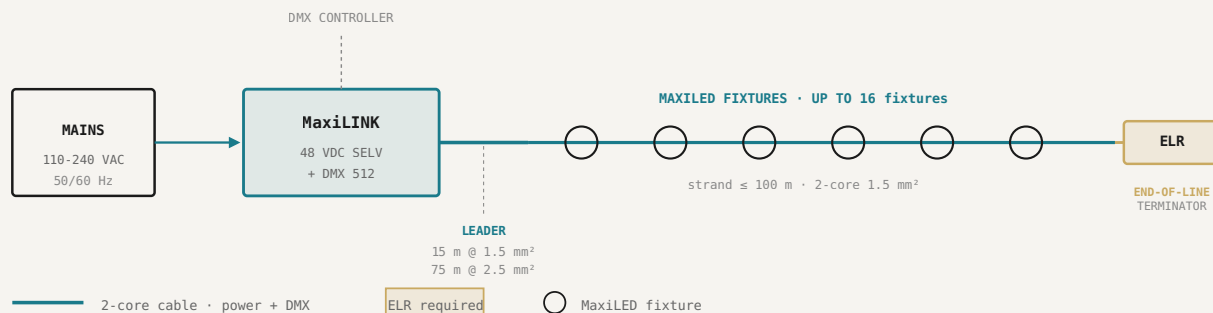
Repeat • connect • terminate. Repeat Steps 1–3 for each fixture along the strand. Cut off any excess flylead and connect to the MaxiLINK 48 VDC + DMX supply using appropriate connectors — **qualified electrician required**. Install the **ELR (End-of-Line Resistor)** on the last fixture to terminate the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

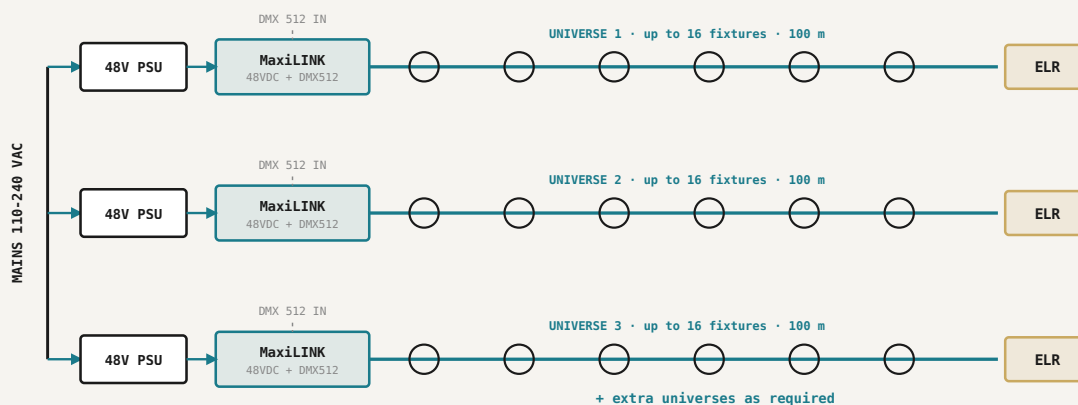
DOT-302-180 · MAXILINK 2-CORE DISTRIBUTION



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:** at 14.4 W per fixture the 302 caps at **16 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-302-180 · MULTIPLE DMX UNIVERSES · ONE MAXILINK + PSU EACH



For layouts beyond a single universe (one universe = up to 16 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-302-180 CONFIGURATOR

LEFT → RIGHT · CONCATENATE WITH HYPHENS

01 PRODUCT MaxiLED DOT 302 180° DOT-302-180	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-302-180-RGBW-B-MSB-ELR

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

EX 2 DOT-302-180-IW-S-MSS-ELR

Large 180°, Intelligent White (750 lm), Silver, MaxiSEAL Silver cable, ELR

Note. Cable harness spacings are made-to-order (factory-fitted). At 14.4 W per fixture the 302 caps at 16 fixtures per PSU — verify total load before ordering. ELR mandatory on the last fixture of every DMX strand.