



MAXILED DOT 102 · DIRECT VIEW

MaxiLED DOT 102 / Direct View

Pixel-scale surface-mount marker spot with a flat lens — direct, narrow viewing angle for marker arrays, low-resolution screens and matrix systems where the viewer faces the fixture head-on. Patented 2-wire DMX-over-power (MaxiLINK) makes installation as simple as a static wire run.

- IP67
- IK07
- 48 VDC SELV
- DMX 512
- PATENTED 2-WIRE
- 5-YEAR WARRANTY



WATTAGE	LUMENS (IW)	BEAM ANGLES	MAX STRAND	OPERATING TEMP
4.8 W	250 lm	Direct (narrow, flat lens)	50 units (1.5 mm ²)	-25 to +50 °C

SPECIFICATIONS · OVERVIEW · KEY FEATURES

QUICK SPECIFICATIONS

PRODUCT CODE	DOT-102-DV
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	Direct (narrow, flat lens)
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 Direct View is a pixel-scale marker spot for building facades — flat lens design gives crisp, focused viewing when the observer looks directly at the fixture. Ideal for marker arrays, low-resolution matrix graphics and directional-view screens. Full DMX 512 control over MaxiLINK 2-core cable.

KEY FEATURES

- 01

Pixel-scale marker

Compact Ø 60 mm body with direct-view flat lens delivers a sharp, focused pixel of light — ideal for high-density marker arrays and low-resolution matrix graphics.
- 02

Patented 2-wire DMX-over-power

MaxiLINK runs 48 VDC + DMX 512 on the same two conductors. No signal cable, no repeaters — the simplest and most cost-effective install of its class.
- 03

Available in Intelligent White

Order as DMX RGBW or DMX Intelligent White depending on the project. Same fixture, same install, same MaxiLINK backbone.
- 04

Sealed for outdoor architectural exposure

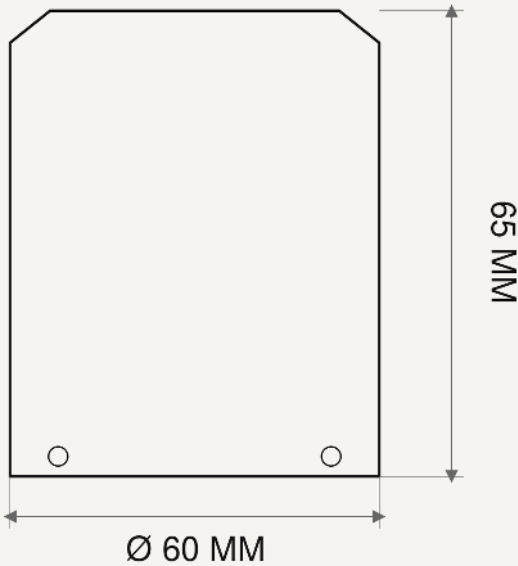
IP67 rated (temporary immersion tolerance, not submerged use), IK07 impact rating and UV-stable polycarbonate lens survive permanent outdoor install.

DIMENSIONS · PHYSICAL ENVELOPE

Dimensions and physical envelope.

DOT-102-DV · SCALED DRAWING

MM (INCHES) · NTS



BODY Ø	HEIGHT	WEIGHT	FLYLEAD
60 mm (2.36")	65 mm (2.56")	400 g (14.1 oz)	500 mm (19.7")

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-DV • INSTALLATION FIGURES

4 STEPS • NTS

Note. Installation procedure is identical to the MaxiDOT 102 180° and 302 180° variants — same back plate, hex key and 500 mm flylead method. The illustrations below show the 180° dome for reference; the Direct View has a **flat lens** (no protruding dome) but the fixing method is unchanged.

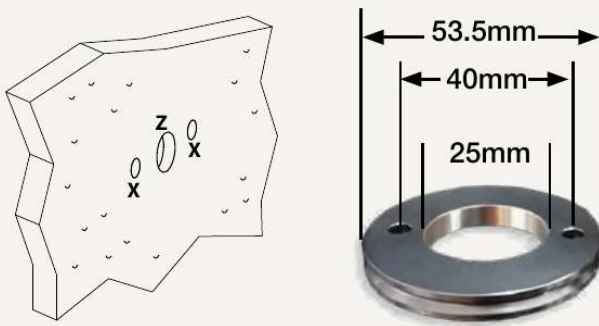


Figure 1

Mark out the surface

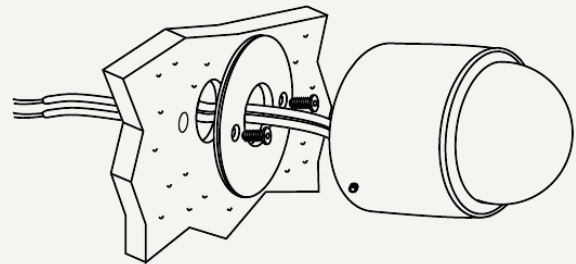


Figure 2

Fix back plate to surface



Figure 3

Secure to back plate

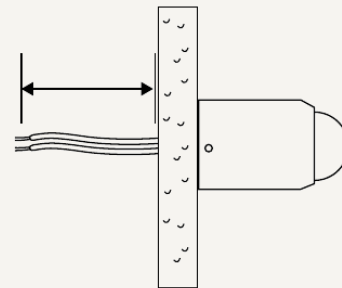


Figure 4

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

MAXILED 1000 **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-DV • 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

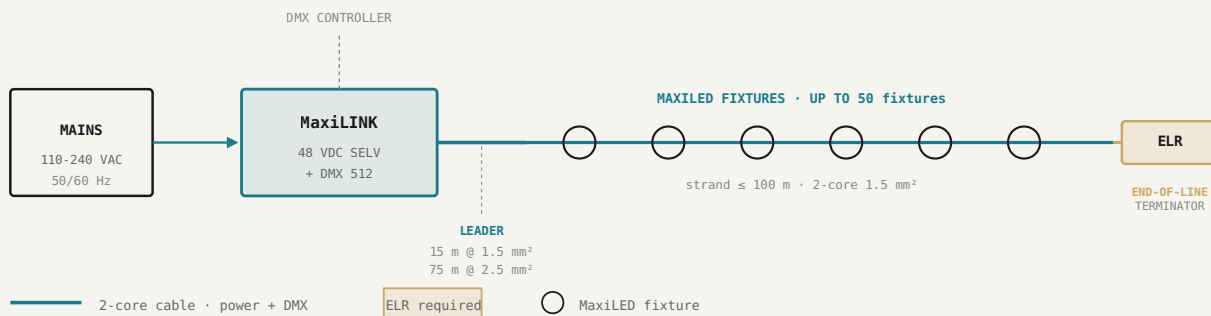
Repeat • connect • terminate. Repeat Steps 1–3 for each fixture along the strand. Cut off any excess flylead and connect to the MaxiLINK 48 VDC + DMX supply using appropriate connectors — **qualified electrician required**. Install the **ELR (End-of-Line Resistor)** on the last fixture to terminate the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

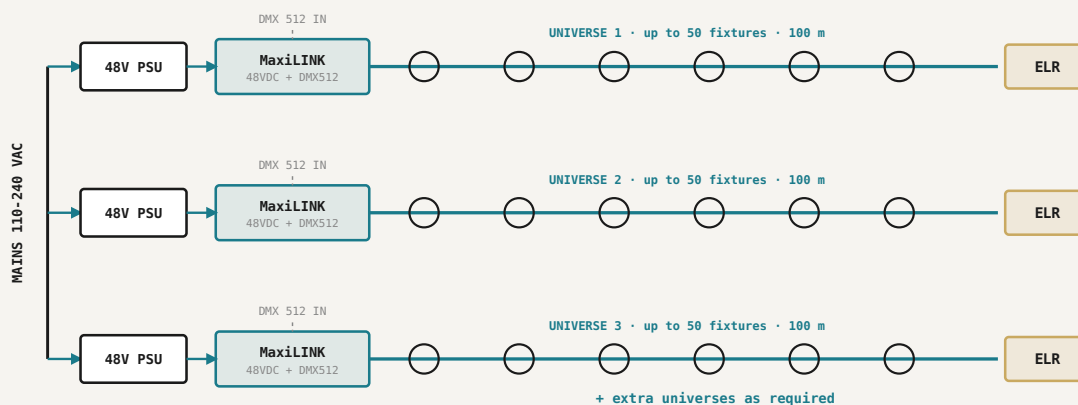
DOT-102-DV · MAXILINK 2-CORE DISTRIBUTION



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-DV · 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-DV CONFIGURATOR

LEFT → RIGHT • CONCATENATE WITH HYPHENS

01

PRODUCT

MaxiLED DOT
102 Direct View

DOT-102-DV

.

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

ORDER-CODE EXAMPLES

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

Direct View, DMX RGBW, Black anodized, MaxiSEAL Black cable, ELR

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

Direct 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.