



MAXILED MARKER EFFECT · IN-GRADE MARKER

# MaxiLED MARKER Effect / In-Grade Marker

Durable in-grade marker fixture for step, kerb and pathway illumination. **Matt glass** reduces glare and delivers smooth, even colour wash across the circular surface. Up to 100 fixtures on a single MaxiLINK strand, fully addressable via patented 2-wire DMX-over-power. IP68 factory-sealed.

● IP68

● IK10 OPTIONAL

● 48 VDC

● DMX 512 ·  
MAXILINK

● DRIVE-OVER



WATTAGE

2.4 W

LUMENS

25 lm

BEAM ANGLES

15° · 25° · 40° ·  
170° (no optic)

MAX STRAND

100 units (1.5  
mm<sup>2</sup>)

OPERATING TEMP

-25 to +50 °C

SPECIFICATIONS · OVERVIEW · KEY FEATURES

QUICK SPECIFICATIONS

|                               |                                                         |
|-------------------------------|---------------------------------------------------------|
| PRODUCT CODE                  | MRK-EFF                                                 |
| POWER INPUT                   | 48 VDC MaxiLINK · from 240/110 V transformer            |
| WATTAGE PER UNIT              | 2.4 W                                                   |
| LED CURRENT                   | 100 mA                                                  |
| LED SOURCE                    | Multi-chip ® XQE                                        |
| COLOR SYSTEM                  | DMX 512 RGBW / RGBWW / Intelligent White (2700K–6000K)  |
| BEAM ANGLES                   | 15° · 25° · 40° · 170° (no optic)                       |
| LUMENS (RGBW MATT GLASS)      | 25 lm                                                   |
| LUMEN MAINTENANCE (85%)       | 90,000 hrs                                              |
| MAX FIXTURES PER STRAND       | 100 units (1.5 mm <sup>2</sup> )                        |
| MAX STRAND LENGTH             | 100 m (328 ft)                                          |
| LEADER (1.5 MM <sup>2</sup> ) | 15 m (49.2 ft)                                          |
| LEADER (2.5 MM <sup>2</sup> ) | 75 m (246 ft)                                           |
| REFRESH RATE                  | DMX 44 Hz                                               |
| IP RATING                     | IP68 (1 m temporary)                                    |
| IMPACT PROTECTION             | Pedestrian traffic · IK10 drive-over (5000 kg) optional |
| OPERATING TEMP                | -25 to +50 °C                                           |
| THERMAL CUT-OUT               | 70 °C automatic                                         |
| RECESSED SLEEVE               | Ø 80 mm · 150 mm or 250 mm depth                        |
| FINISH OPTIONS                |                                                         |

OVERVIEW

The MaxiMARKER Effect is our pathway/kerb marker — Ø 88 mm outer flange, Ø 60 mm body, 85 mm recessed depth. The matt-glass diffusing lens reads as a smooth colour circle at grade rather than a point source, eliminating glare for pedestrian and low-vehicular contexts. Standard pedestrian-traffic rating with optional IK10 drive-over (5000 kg). Full DMX 512 control on 2-core MaxiLINK — same wire run as a static install. Up to 100 markers on a single 100 m strand at 2.4 W each.

KEY FEATURES

- 01

**Matt-glass diffusing lens**  
Frosted marker lens softens the light source to a smooth colour circle at grade — no glare, no hot-spot. Ideal for step edges, kerb markers, pathway rhythms and threshold detailing.
- 02

**Patented 2-wire DMX-over-power**  
MaxiLINK runs 48 VDC + DMX 512 on the same 2 conductors. Up to 100 markers on a single 100 m strand on 1.5 mm<sup>2</sup> cable — the highest density in the DEPTH family.
- 03

**Pedestrian · drive-over optional**  
Standard IK-rated for pedestrian traffic. Optional drive-over IK10 for 5000 kg vehicular load (specify on order). Aluminium flange with matt-glass diffuser lens.
- 04

**Compact recessed footprint**  
Ø 88 mm flange, 85 mm depth — same footprint as MaxiDEPTH 102 for coordinated pathway/kerb designs. Sleeve 150 mm or 250 mm high.

MaxiSEAL Black / Silver · Anodised · Stainless  
steel · RAL Powder Coat

CERTIFICATIONS                      UL Listed · CE · UKCA

INSTALLATION                      Qualified electrician required

WARRANTY                                      5 years

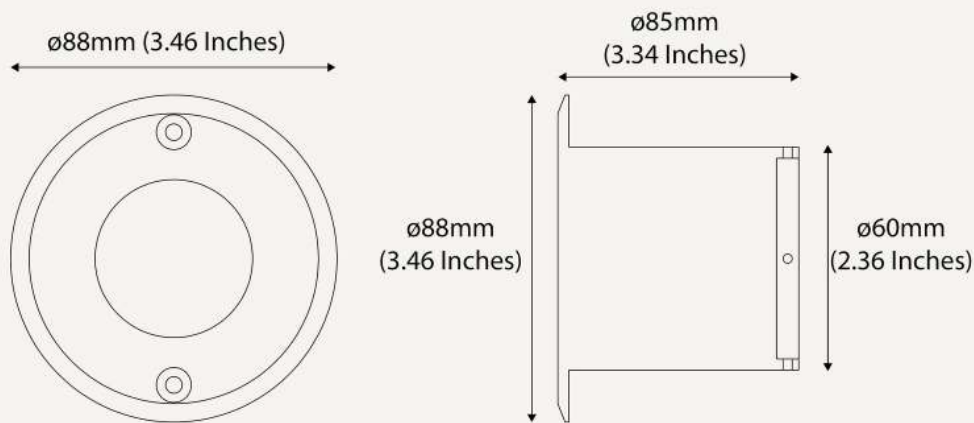
DIMENSIONS · PHYSICAL ENVELOPE

Dimensions and physical envelope.

MRK-EFF · SCALED DRAWING

MM (INCHES) · NTS

FIXTURE IN INSTALLATION SLEEVEMM (INCHES)

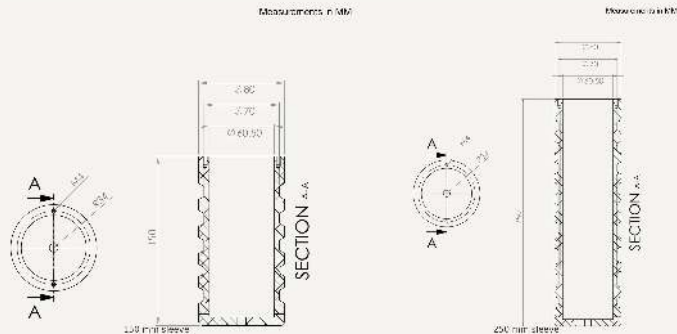


| OUTER FLANGE Ø | BODY Ø        | DEPTH         | SLEEVE Ø      |
|----------------|---------------|---------------|---------------|
| 88 mm (3.46")  | 60 mm (2.36") | 85 mm (3.34") | 80 mm (3.15") |

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

ACCESSORIES · RECESSED SLEEVE

CERTIFICATIONS



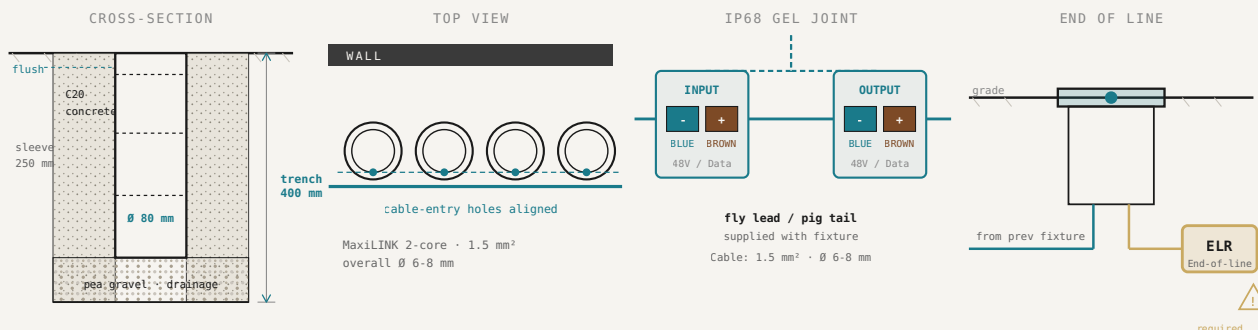
Injection-moulded polymer ·  $\varnothing 80$  outer ·  $\varnothing 60.50$  inner · M4 fixing bosses

## INSTALLATION • STEP-BY-STEP

## Installation procedure.

## MRK-EFF • INSTALLATION FIGURES

4 STEPS • NTS



01

**Prepare ground work.** Excavate a trench **minimum 400 mm deep**. Fill the lower half with **pea gravel** for drainage. Always prepare **300 mm of drainage gravel** before setting the sleeve. Position the recessed sleeve (Ø 80 mm × 150 or 250 mm) so its top edge is flush with the finished grade, then pour C20 concrete around it. Before proceeding, perform a **30-minute drainage test** — fill the sleeve with water equivalent to its volume; if it does not fully drain within 30 minutes, add a further drainage solution before continuing.

02

**Sleeve orientation.** Ensure the sleeve cable-entry holes are all **aligned to the wall** or building line so the finished fixtures read uniformly after installation. Route the 2-core MaxiLINK cable up through the sleeve grommet — cable specification: **1.5 mm<sup>2</sup> conductors, overall Ø 6-8 mm**. Do not seal the sleeve to the fixture — the fixture must remain removable for service.

## — INSTALLATION • CONTINUED

## Installation procedure.

MRK-EFF • STEPS CONTINUED

STEPS 03 – 04

03

**Make connections using IP68 gel connectors.** The MaxiMARKER Effect is supplied from the factory with a **fly lead / pig tail** pre-terminated. Splice input and output cables to the fixture pig-tail using **IP68 submersible gel connectors** (supplied by others, inline with local authority regulations). Observe polarity: **BLUE – / BROWN +**. Follow the gel-connector instruction sheet for terminal-block wiring and gel-cover locking.

04

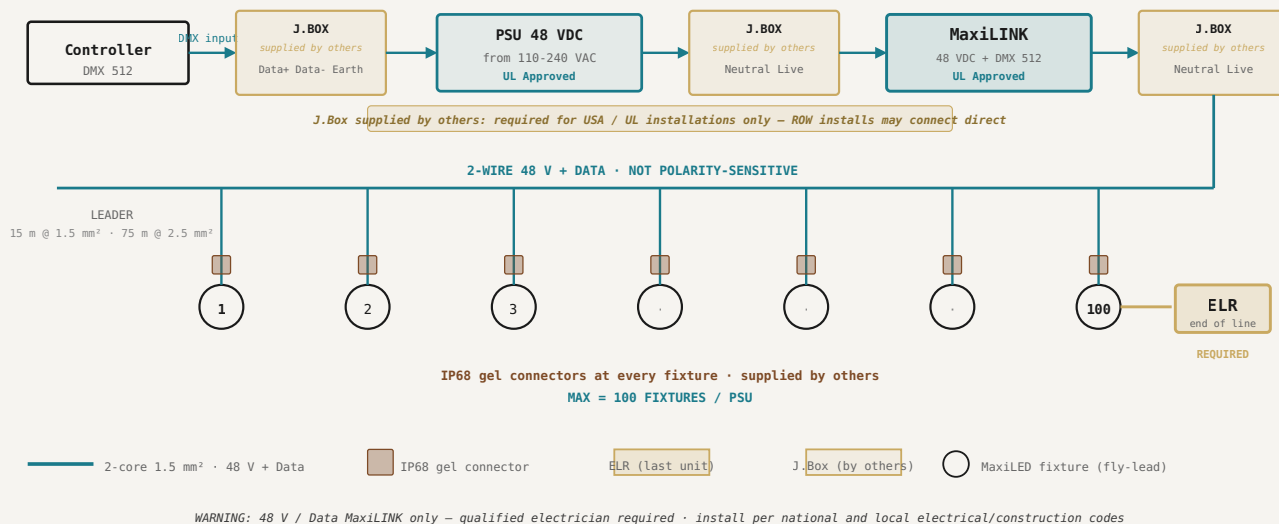
**Final fitting • terminate with ELR.** Drop the fixture into the sleeve so the flange seats flush on grade. On the **last** fixture of each MaxiLINK strand (max 100 per PSU), wire the End-of-Line Resistor (**ELR**, supplied separately) to the 48 V / Data output — without the ELR the lamps show data disruption. **Qualified electrician required** — install per national and local electrical / construction codes.

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

## WIRING · MAXILINK · STRAND PLANNING

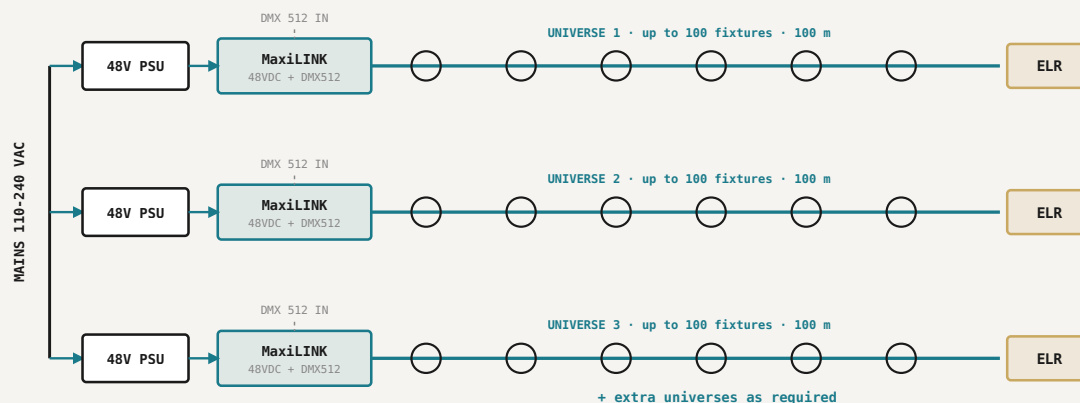
## Wiring and strand planning.

## MRK-EFF · MAXILINK 2-CORE DISTRIBUTION



**System architecture per manual.** DMX Controller feeds the first junction box (supplied by others) with Data+ / Data- / Earth. A **48 VDC PSU (UL Approved)** feeds the second junction box (Neutral / Live) into the **MaxiLINK UL Approved** distribution unit, which delivers 2-wire 48 V + DMX 512 (data not polarity-sensitive) out through a third junction box to the fixture strand. **Junction boxes are required for USA / UL installations only** – ROW installs may connect direct. **Leader:** max 15 m on 1.5 mm² · 75 m on 2.5 mm² from MaxiLINK to the first fixture. **Strand:** up to **100 markers** per PSU on 1.5 mm² cable at 2.4 W per unit (max run 100 m first-to-last). Each MaxiMARKER Effect ships with a factory **fly lead / pig tail**; connect input and output cables using **IP68 gel connection boxes** (supplied by others) with polarity **BLUE – / BROWN +**. **ELR (End-of-Line Resistor)** mandatory on the last fixture – without it the strand shows data disruption. **Qualified electrician required** – 48 V / Data MaxiLINK only, install per national and local electrical/construction codes.

## MRK-EFF · MULTIPLE DMX UNIVERSES · ONE MAXILINK + PSU EACH



For layouts beyond a single universe (one universe = up to 100 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.

MRK-EFF CONFIGURATOR

LEFT → RIGHT · CONCATENATE WITH HYPHENS

|                                                                                   |                                                                                                        |                                                                                                                                             |                                                                      |                                                                                          |
|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| <div>01</div> <div>PRODUCT</div> <div>MaxiLED<br/>MARKER Effect<br/>MRK-EFF</div> | <div>02</div> <div>LED</div> <div>DMX RGBW<br/>RGBW<br/>RGBWW RGBWW<br/>Intelligent White<br/>IW</div> | <div>03</div> <div>FINISH</div> <div>MaxiSEAL Black<br/>MSB<br/>MaxiSEAL Silver<br/>MSS<br/>Anodised ANO<br/>Stainless SS<br/>RAL RAL</div> | <div>04</div> <div>SLEEVE</div> <div>150 mm 150<br/>250 mm 250</div> | <div>05</div> <div>IMPACT</div> <div>Pedestrian PED<br/>Drive-over 5000<br/>kg DRV</div> |
|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|------------------------------------------------------------------------------------------|

ORDER-CODE EXAMPLES

- EX 1

MRK-EFF-RGBW-MSB-150-PED

MaxiMARKER, RGBW, MaxiSEAL Black, 150 mm sleeve, pedestrian traffic
- EX 2

MRK-EFF-IW-SS-250-DRV

MaxiMARKER, Intelligent White, stainless steel, 250 mm sleeve, drive-over 5000 kg

**Note.** Sleeve depth and drive-over rating are specified at time of order. RAL cable colours available on minimum-order quantities. ELR required on the last fixture of each DMX strand.