XY-Fi

The world's smallest emergency LED solution

XY-Fi

80 Lumens | 3 Hours | SELV | 1 Non maintained

Ultra discreet emergency lighting

The world's smallest emergency LED solution

XY-Fi is the world's smallest emergency LED conversion system that has been designed to be easy to install whilst maintaining the original OEM luminaire design.

XY-Fi enables unobtrusive, seamless integration into a wide range of luminaires and despite only being Ø12mm, it still delivers a powerful light output during an emergency of greater than 6m spacings.

XY-Fi has been hailed a leading innovation for OEMs and has been recognised at the DALI Product Awards and Lighting Design Awards.

Key features:

- **Ultra compact**
- **Bezel diameter only 12mm**
- **Integral status indicator LED**
- **SELV compliant (except N-light® EC version)**
- **Compatible with standard and DALI AutoTest® control gear**
- **Integral and remote mounting options**
- **Integral strain relief**
- **Secondary optics available**
- **Typically delivers greater than 6m spacings**

* When printing out, your printer might adjust size, actual size: Ø12mm.

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Vigo Place, Aldridge, West Midlands WS9 8UG England
+44 (0) 1922 458 255
sales@mackwell.com www.mackwell.com

In partnership with: redwoodsystems® A CommScope Company

MANUFACTURED IN UK

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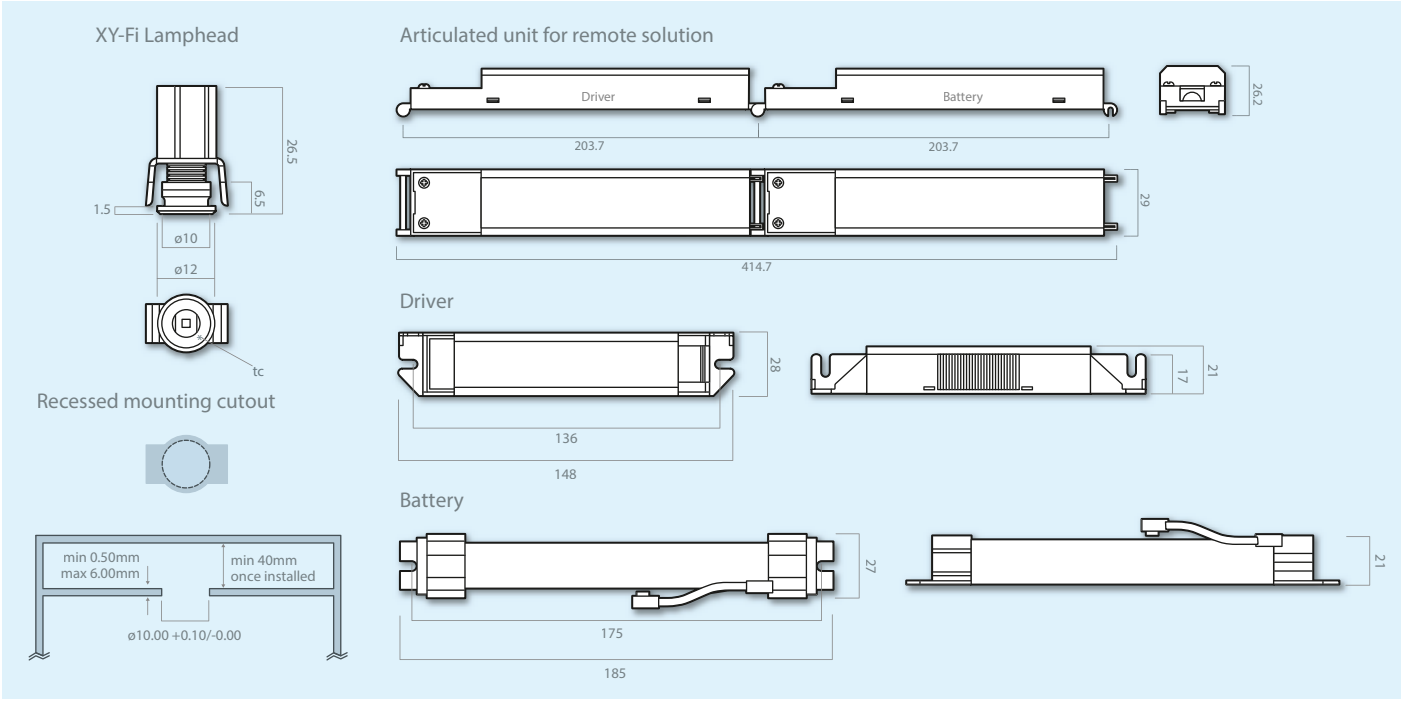
Dimensions



LED Module Specifications

Lumen output	:	80lm
Drive current	:	275mA
Typical CCT	:	5700K
Typical CRI	:	75
Distribution	:	Lambertian
Beam angle	:	120°
Conductors	:	AWG28
Wire loom	:	3mm outer diameter
Dimensions	:	26.5mm x 12mmØ 10mmØ mounting hole
Weight	:	20g
Power rating	:	0.9W
Eye protection rating	:	Risk group 1

Temperature Range

Maximum case temperature (tc)	:	+65°C

Driver Specification

Supply voltage	:	230Vac
Supply frequency	:	50/60Hz
Supply current	:	30mA maximum
Battery charge current	:	200 to 250 mA
Battery charge voltage	:	3.0 to 4.6V
Battery discharge current	:	0.25 to 0.45A
Battery discharge voltage	:	2.4 to 4.4V
Rated duration	:	3 hours
Ambient temperature (ta)	:	0°C to +45°C
Maximum case temperature (tc)	:	+70°C
Conductor size (remote)	:	0.5 to 1.5mm²
Conductor size (conversion)	:	0.2 to 0.5mm²
Weight of control gear	:	240g (inc battery)

N-light EC Specifications

Battery charge current	:	160mA nominal
Ambient Temperature (ta)	:	0 to +45°C
Maximum case temperature (tc)	:	+70°C
Conductor size	:	0.2 to 0.5mm²

Relevant Standards

EN 61347-2-7
EN 61347-2-13
EN 60598-2-22
BS 5266-1
EN 62034
EN 62386
EN 62031
EN 62471
ICEL 1004

Batteries

XY-Fi includes a rechargeable battery pack for 3 hours operation. When XY-Fi no longer meets 3 hour duration replace the batteries, observing the battery polarity, as permanent damage to the control gear will occur if they are reversed.

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Spacing information

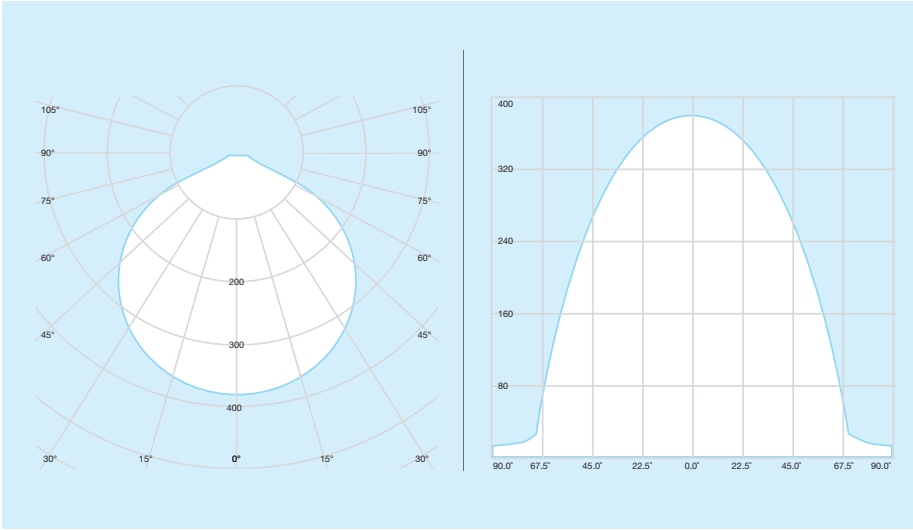
Ceiling Height	Escape Route Spacings based on EN1838:2013 for 1 lux	Open-Area Spacings based on EN1838:2013 for 0.5 lux
2.0	6.30m	5.50m
2.5	6.80m	6.30m
3.0	7.20m	6.90m
3.5	7.30m	7.20m
4.0	7.40m	7.50m

The spacing tables above are suitable for use as guidelines and for easy comparison of similar products.

Due to the nature of creating generic lighting schemes, all schemes should be simulated or calculated in full, representing as accurately as possible the final application, and ensuring compliance with local regulations.

NB: Spacing data is given for bare light engine assembly. Addition of secondary diffusion/ optics will alter results.

Photometric details



XY-Fi is available with the following technology options:

✔ DALI AutoTest®

Provides further benefits by enabling testing and monitoring of an emergency lighting system either on-site or via an internet connection. DALI AutoTest® is ideal for monitoring larger buildings and multiple sites.*

✔ Non-AutoTest®

For applications where self-testing is not required or suitable, the non-AutoTest® option provides the same quality and performance expected of Mackwell products, without the AutoTest® feature.

✔ N-light® EC

Designed to work alongside Redwood's low-voltage, direct current lighting, power and intelligence building platform. Must only be used in-conjunction with the N-light® EC.

*Please note that for AutoTest® products, the start times for the tests are set automatically to ensure random testing of the units at times of minimum risk. As a consequence tests may occur at any time, and caution should be exercised in situations where this might be inconvenient.

DALI AutoTest® product, the product will default to Mackwell AutoTest® functionality as standard, when not connected to a relevant system.

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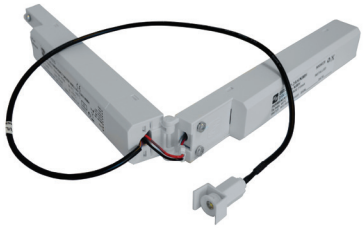
Compatible with our N-light® CONNECT DALI monitoring system

XY-Fi is compatible with Mackwell's N-light® CONNECT emergency lighting monitoring system to enable configuration, testing, and supervision of emergency luminaires via a 2-way communication interface.

Compatible with the N-light® EC

N-light® EC allows you to power, monitor and test over category cable. The N-light® EC panel is a central component for powering and commissioning emergency lighting systems that works in harmony with general lighting operating on a smart building platform.

Product options



Articulated system for remote conversion*

Order code	Description
9005009	XY-Fi Remote Kit Dali White
9005010	XY-Fi Remote Kit Non-AutoTest White
9005192	XY-Fi Remote Kit N-light EC White

Separate components for integral conversion

Order code	Description
9005027	XY-Fi Conversion Kit Dali White
9005028	XY-Fi Conversion Kit Non-AutoTest White
9005132	XY-Fi Conversion Kit N-light EC White

*Articulated driver supplied with separate lamp head for installation

N-light EC versions are not supplied with BSI Kitemark Certification

WARRANTY

This product is guaranteed for three years and covers faulty workmanship and materials. This "Return to Base" warranty requires that the product is used within the terms and conditions stated above, in our literature and on our website. Products returned to us under warranty must be carriage paid. Mackwell Electronics Ltd. accept no liability for cost incurred.

Mackwell maintains a policy of continuous development and reserves the right to change the details shown on this data sheet without prior notice.

The contents are intended for guidance only.

Company Reg No: 1414873. VAT Reg No GB330230618

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Vigo Place, Aldridge, West Midlands WS9 8UG England
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sales@mackwell.com www.mackwell.com

Mackwell UK
Vigo Place, Aldridge, West Midlands WS9 8UG. England - Tel. +44 (0) 1922 458 255

Mackwell Hong Kong
Unit 1102-1103, 11F, Wing Tuck Commercial Centre,177-183 Wing Lok Street, Sheung Wan, Hong Kong - Tel. +852 9389 4747

Mackwell Middle East
PO Box : 122195 SAIF Zone, UAE - Tel. +971 6 552 8328