XY-Fi

The world's smallest emergency LED solution

actual size*

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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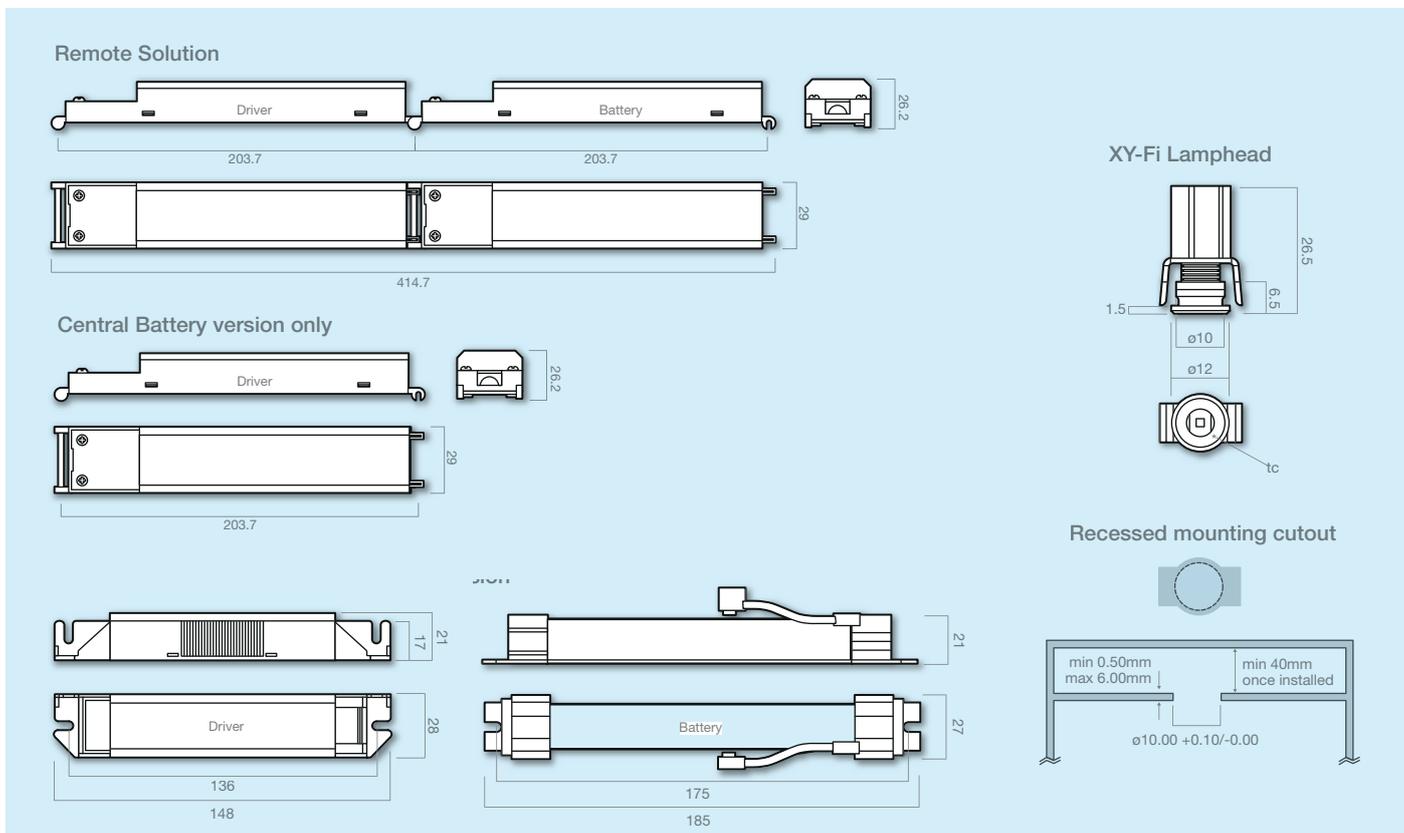
C E | ICEL | DALI

In partnership with:
redwoodsystems®
A CommScope Company

MANUFACTURED IN
UK

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Dimensions

Remote Solution

Driver | Battery

26.2

203.7 | 203.7

29

414.7

XY-Fi Lamphead

26.5

1.5 | 6.5

ø10

ø12

tc

Central Battery version only

Driver

26.2

29

203.7

Recessed mounting cutout

min 0.50mm
max 6.00mm | min 40mm once installed

ø10.00 +0.10/-0.00

Driver

17 | 21

28

136

148

Battery

21

27

175

185

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
Maximum case temperature (tc)	:	+65°C
Power rating	:	0.9W
Eye protection rating	:	Risk group 1

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)
Power factor	:	0.45

: Maximum case

Central Battery Versions

Supply voltage	:	96 to 265Vac 50/60Hz
Supply current	:	30mA maximum
Hold-off supply	:	230Vac 50/60Hz (9mA max)
Hold-off change over voltage	:	138 to 195Vac
Ambient temperature (ta)	:	0°C to +40°C
Maximum case temperature (tc)	:	+70°C
Conductor size	:	0.5 to 1.5mm²
Power factor	:	0.40

Relevant Standards

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

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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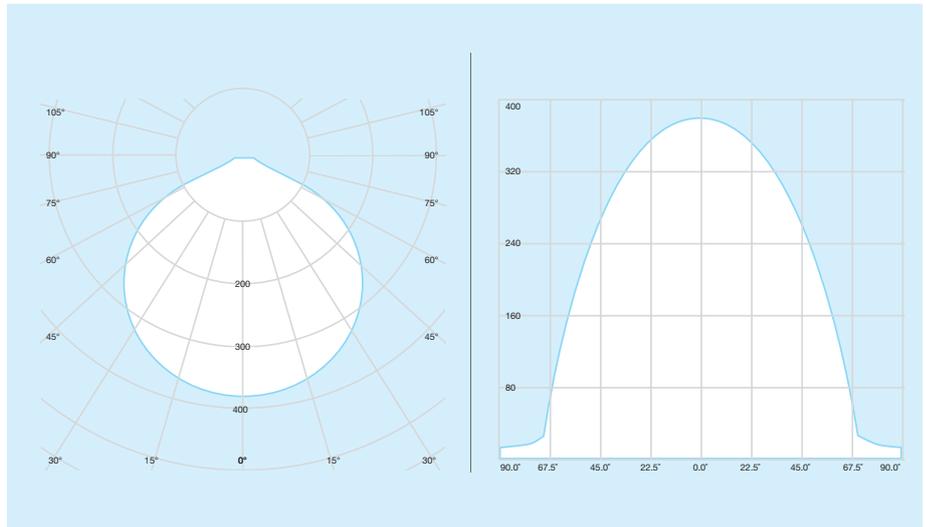
Spacing information

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:

✔ **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.

✔ **Central Battery** — Suitable for central battery applications that use a nominal AC or DC supply of 110V to 240V that includes a hold-off input to inhibit the LED driver output when a mains supply is connected.

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