Firefly AL

Discreet anti-ligature emergency luminaires with LiFePO$_4$ battery technology



Firefly AL is an anti-ligature, recessed emergency luminaire with five optical distribution options for illuminating points of emphasis, escape routes, and open areas (anti-panic). Equipped with an aluminium bezel secured by tamper-resistant T20 pin Torx screw fixings.

Featuring Lithium Iron Phosphate (LiFePO$_4$) battery technology with SmartScan wireless communication versions backed by a 10-year product warranty. Available in 3 W or 4 W power outputs and engineered for easy installation and maintenance.

Firefly AL achieves a reduction in total embodied carbon, reduced energy consumption and a doubled life expectancy compared to the previous model.

Applications: mental health and custodial facilities.

- Anti-ligature and tamper-resistant
- Product warranty of up to 10 years
- Next-generation optics for optimised light distribution
- Reliable Lithium Iron Phosphate (LiFePO4) battery technology
- SmartScan Emergency - Wireless communication, simple to install, automatic testing and full status reporting versions
- Low standby power consumption (< 1 W total)

Notes: It is a legal obligation to provide emergency lighting in all premises used as a workplace, entertainment venue, leisure facility, or communal residential property.

IP40 (IP20 above ceiling) SMARTSCAN

Specification

Mounting	**Recessed**	IP rating	**IP40 (IP20 above ceiling)**
Anti-ligature compliance	**Anti-ligature**		

Lighting

Distribution	**Area** **Corner** **Corridor** **Corridor+** **Spot**

Firefly AL

Emergency data

Emergency lumen output	**270 lm - 425 lm**	Emergency type	**Non-maintained**
Emergency duration	**3 hours**	Battery specification	**Lithium Iron Phosphate (LiFePO4)**

Power

LED power	**3 W - 4 W**	Circuit power	**5 W - 5.5 W**

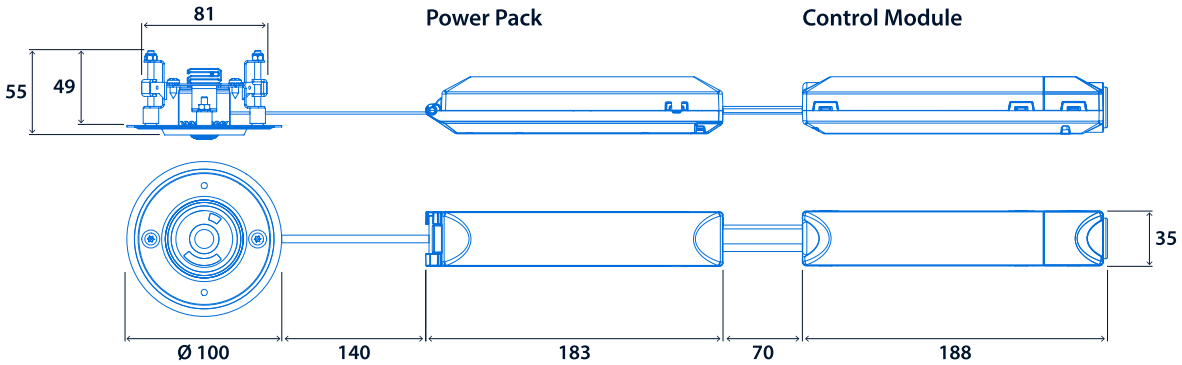
Construction

Housing	**Zinc coated steel bezel**	Finish	**Full polyester powder coat**
Bezel colour	**White**	Optical assembly	**High performance polycarbonate lens**
Cover fixings	**Stainless steel T20 pin Torx**		

Compliance

UKCA	**Yes**	CE	**Yes**

Dimensions



Cut-out - Ø 83
Minimum void depth - 160 mm

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Range

Emergency system	Product	LED power	Mounting	Optics	Product version
W SmartScan Emergency **D** DALI / Self-Test Emergency **T** Standard / Self-Test Emergency	**FZ** Firefly	**3** 3 W	**R** Recessed	**AR** Area **SP** Spot **CD** Corridor	**AL** Anti-ligature
		4 4 W	**R** Recessed	**AR** Area **SP** Spot **CR** Corner **CP** Corridor+	

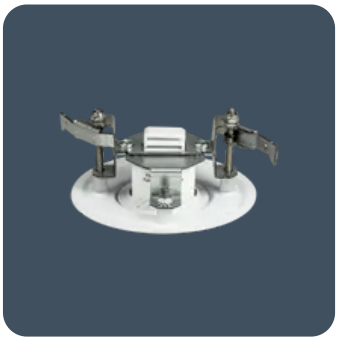
E.g. **WFZ3RARAL** = SmartScan Emergency / Firefly / 3 W / Recessed / Area / Anti-ligature

Spares

Product code	Description	Weight
EMB1001	Lithium Iron Phosphate (LiFePO4) battery - 3 Ah - Blue - End of life batteries can be returned to Thorlux for recycling	0.18 kg
EMB1010	Lithium Iron Phosphate (LiFePO4) battery - 4 Ah - Green - End of life batteries can be returned to Thorlux for recycling	0.18 kg


Firefly AL with area optic


Firefly AL with gear and battery


Firefly AL rear view

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View Firefly AL variants using our online filtering tool



Information is correct as of 10-Nov-2026, however must not be interpreted as a guarantee of individual product performance and/or characteristics. We reserve the right to alter specifications and designs without prior notice.