Firefly Surface

Surface-mounted emergency luminaires with $LiFePO_4$ battery technology



Firefly Surface is a surface-mounted, IP65-rated emergency luminaire with five optical distribution options for illuminating points of emphasis, escape routes, and open areas (anti-panic).

The Thorlux Firefly Surface features Lithium Iron Phosphate ($LiFePO_4$) battery technology backed by a 10-year product warranty. SmartScan wireless communication versions are available with 3 W or 4 W power output options. It has been engineered for easy installation and maintenance.

Firefly Surface achieves a 29% reduction in total embodied carbon, reduced energy consumption, and a doubled life expectancy compared to the previous model.

Applications: industrial and commercial environments, education, healthcare and retail.

- Product warranty of up to 10 years
- Next-generation optics for optimised light distribution
- Reliable Lithium Iron Phosphate (LiFePO4) battery technology
- Robust and durable construction
- 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.

IP65 IK10 SMARTSCAN

Specification

Mounting	**Surface**	IP rating	**IP65**
Impact rating	**IK10**		

Lighting

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

Firefly Surface

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**

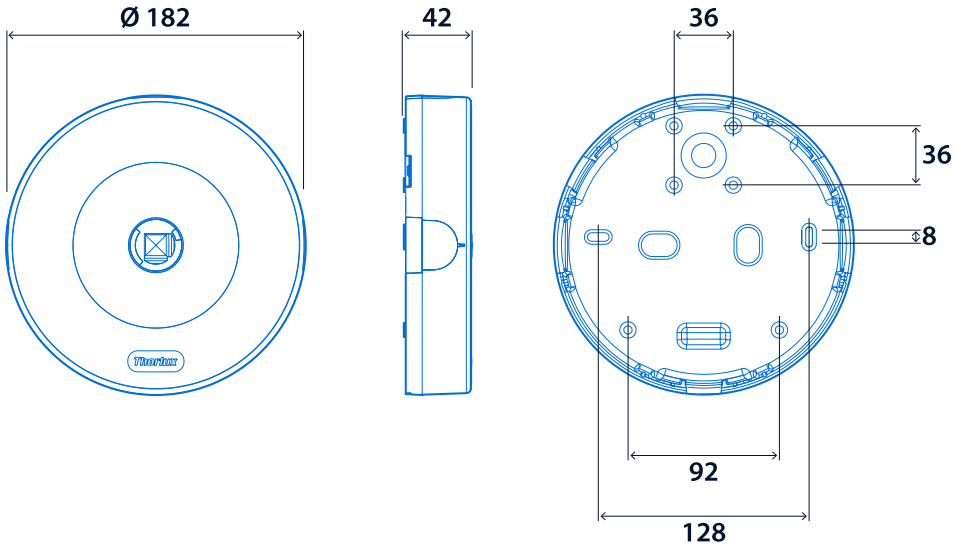
Construction

Housing	**100% recycled polycarbonate housing**	Body colour	**White (RAL 9003)**
Optical assembly	**High performance polycarbonate lens**		

Compliance

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

Dimensions



Firefly Surface

Range

Emergency system	Product	LED power	Product Version	Optics	IP rating
W SmartScan Emergency **D** DALI / Self-Test Emergency **T** Standard 3hr / Self-Test Emergency	**FZ** Firefly	**3** 3 W	**S** Surface	**AR** Area **SP** Spot **CD** Corridor	**65** IP65
		4 4 W	**S** Surface	**AR** Area **SP** Spot **CR** Corner **CP** Corridor+	

Emergency system - prefix catalogue number with **W** SmartScan Emergency / **D** DALI / Self-Test Emergency / **T** Standard 3hr / Self-Test Emergency

E.g. **WFZ3SAR65** = SmartScan Emergency / Firefly / 3 W / Surface / Area / IP65

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







Area optic



Spot optic



Corridor optic



Corridor+ optic



Corner optic



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View Firefly Surface variants using our online filtering tool



Information is correct as of 03 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.