

THORN

ForceLED Pro

Vandal resistant dust and waterproof luminaire



ForceLED Pro

A robust IP66 luminaire designed to withstand the harshest environments

Robust

Die-cast aluminium construction to stand up to tough environments

Easy to install and maintain

ForceLED Pro's unique single tool Safe-T Locking System (SLS) allows quick and easy access, with specific tools. Installation options include: direct, quickfix bracket and concealed secure bracket.

Energy saving

Alternative to fluorescent lamps with highly efficient LED light engines.



Impact resistant

A heavy duty polycarbonate diffuser (withstands up to 80 Joules), fits precisely in the channel of the body to ensure limited movement when faced with side impact.

Vandal resistant

The unique Safe-T Locking System (SLS) makes it almost impossible to open the fitting without the correct tools.

Dust and water resistant

Scientifically developed rear gaskets plus side and rear (inverted) glands allow ingress protection to be maintained at IP66 after installation.

Die-cast body

ForceLED Pro is manufactured from die-cast aluminium giving it stability. For further protection the body is finished with a powder coat grey.

Polycarbonate diffuser

The clear polycarbonate diffuser has been designed with a unique curvature and thickness to withstand high impacts of up to 4 x IK10 (80 Joules). The diffuser fits precisely in the channel of the body to ensure limited movement when faced with side impact.

Safe-T Locking System (SLS)

The SLS is manufactured from a thermoplastic alloy of polycarbonate and acrylonitrile butadiene styrene (ABS). The combination of these materials ensures the SLS remains intact after impacts.

SLS Security Pin (SP)

ForceLED Pro has a security pin in the SLS locking shaft, which can only be opened with a unique key (ordered separately).

Gasket

IP66 is maintained as ForceLED Pro uses a liquid poured gasket which provides outstanding adhesion to the luminaire.

The gasket compound has a scientifically calculated density allowing a tight seal between the diffuser and body as well as body and mounting surface.

Easy to clean

The body has a 35° angle and curved diffuser to shed dust and water.

Safe-T Locking System

Safe-T Locking System (SLS)

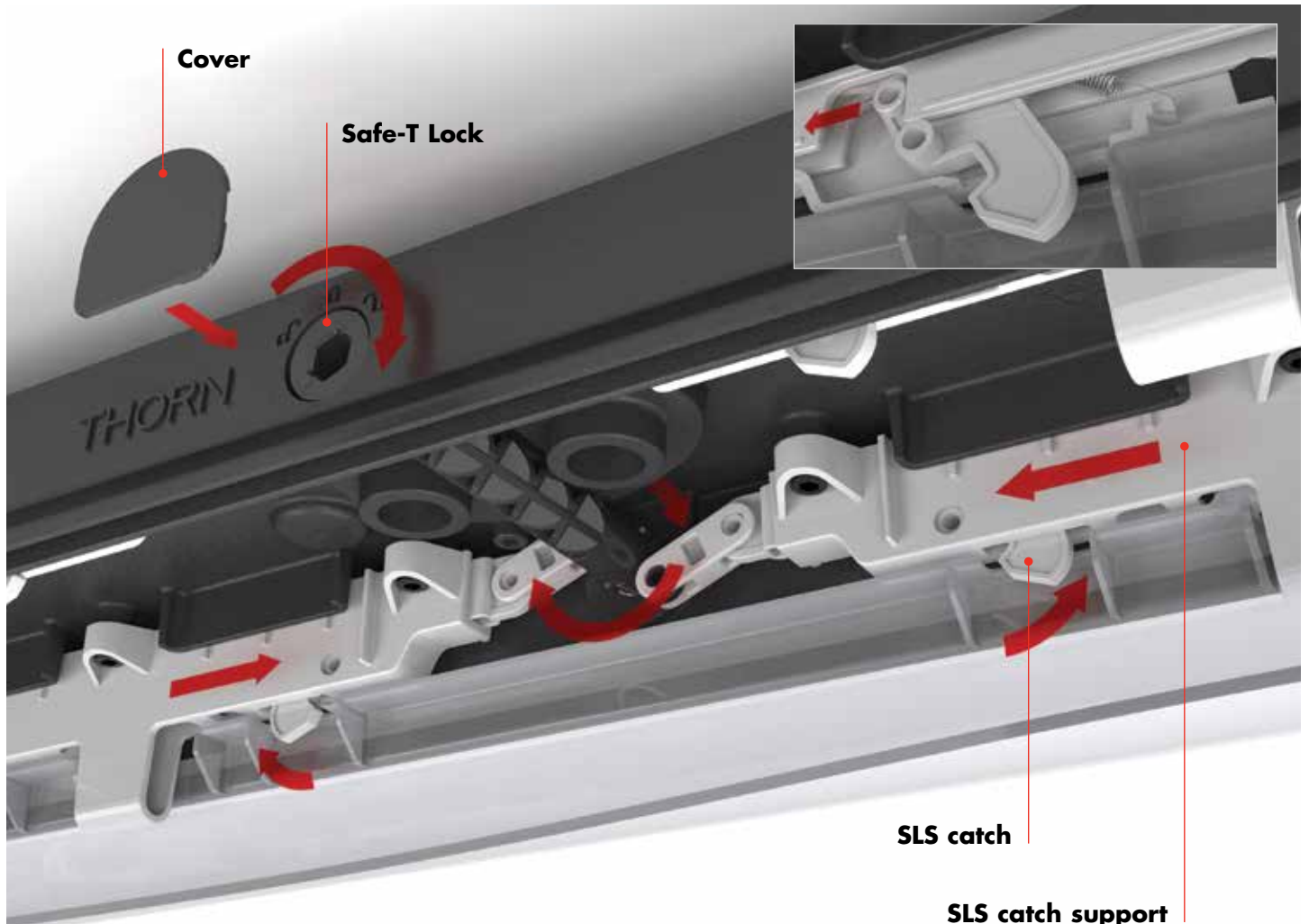
ForceLED Pro is supplied with a cover as standard to provide additional security to the Safe-T Locking System (SLS).

A quarter turn of the Safe-T Lock will initiate a mechanical movement in the SLS. The diffuser will be released when the mechanical links rotate and pull inwards onto the miniature spring system located inside the catch support.

The diffuser remains hinged at a calculated angle allowing it to become a storage compartment during maintenance.

Benefits of SLS

- Vandal resistant
- Corrosion resistant (no externally locking clips)
- Easy to maintain
- Ease of luminaire installation
- Ensures IP66
- Improves IK rating



Product information

- Robust die-cast aluminium construction and impact resistant up to 80 Joules to withstand the harshest environments
- Unique Safe-T Locking System for easy installation, maintenance and to aid vandal resilience
- Dust and water resistant with rear gaskets and side/rear (inverted) glands allowing ingress protection to be maintained at IP66 after installation
- Highly efficient LED light engine offers an energy saving alternative to fluorescent lamps

Applications

- Prisons
- Railway stations
- Bus stations
- Subways/Underground
- Pedestrian subways
- Exposed areas
- Parks
- Tunnels

Luminaire information

- Life time 50 000 hours @L90 Ta 25°C
- ForceLED Pro 4500 HFI L840: 4500lm (120Llm/W)
- ForceLED Pro 7000 HFI L840: 7000lm (130Llm/W)
- Colour Temperature: 3000K/4000K
- CRI: >80
- McAdams: 3

Standards



*4 times IK10, 80 Joule (IEC 62262)

Materials/Finish

Body: die-cast aluminium, powder coated
Diffuser: polycarbonate
Safe-T Locking System (SLS): thermoplastic alloy of polycarbonate and acrylonitrile butadiene styrene (ABS).
Gasket: liquid poured polyurethan

Installation/Mounting

Suitable for: direct surface mounting with, quick-fix brackets, or concealed secure bracket.

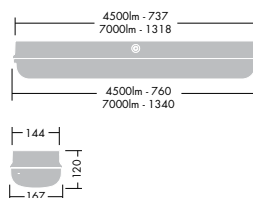
Specification

To specify state:
Vandal resistant dust and waterproof LED luminaire. 4500lm to 7000lm, IP66, 4 X IK10, 3000K/4000K, with unique Safe-T Locking System.
As Thorn ForceLED Pro.

Ordering Guide

Description	Wt (kg)	SAP Code	Cat No.
FORCELED PRO 4500-840 HFI	4.0	96628062	FLP4500D
FORCELED PRO 7000-840 HFI	8.5	96628063	FLP7000D
Accessories			
FORCELED PRO SECURE BRACKET KIT	-	96628090	FLPSBK
FORCELED PRO QUICK-FIX BRACKETS KIT	-	96628089	FLPQBK
FORCELED PRO SP SECURITY KEY	-	96628088	FLPSPSK

Overview





Mancock Rd
Len 542

541

SB 7982

Zone
F

Zone
E

THORN

LIGHTING PEOPLE

Thorn Lighting Limited

Durhamgate, Spennymoor,
County Durham, DL16 6HL
Tel: +44 (0) 1388 420 042

Sales support

Tel: +44 (0) 844 855 4810
Fax: +44 (0) 844 855 4811

Quotations

Tel: +44 (0) 191 301 3036
uk.quotations@zumtobelgroup.com

TCS (After Sales)

Tel: +44 (0) 191 301 3939
tcs.uk@zumtobelgroup.com

Technical support

Tel: +44 (0) 844 855 4812
Fax: +44 (0) 191 301 3107
technical@zumtobelgroup.com

Spare parts

Tel: +44 (0) 191 301 3131
Fax: +44 (0) 191 301 3038
spares@zumtobelgroup.com

Literature requests

Brochures on specific
products/ranges
literature@zumtobelgroup.com

www.thornlighting.co.uk



5 Year Warranty

As a globally leading luminaire manufacturer, Thorn Lighting provides a five-year warranty for its complete product range within all European Countries.

www.thornlighting.co.uk/warranty

Thorn Lighting is constantly developing and improving its products. All descriptions, illustrations, drawings and specifications in this publication present only general particulars and shall not form part of any contract. The right is reserved to change specifications without prior notification or public announcement. All goods supplied by the company are supplied subject to the company's General Conditions of Sale, a copy of which is available on request. All measurements are in millimetres and weights in kilograms unless otherwise stated.

Publication No: FORCE_LED PRO (GB) Publication Date: 01/16

www.pefc.org



ISO 9001:2008
Reg: AT-00005/5
ISO 14001:2004
Reg: AT-00247/2
Manufacturing