



PROTECTA IV

Retrofit Geartray

The Protecta IV LED Geartray is a unique solution to utilise the very latest LED technology in existing Zone 1 Protecta III installations.

Complete with LED strips, electronic control gear and all interconnecting wires the geartray can be easily retro-fitted into an existing Protecta III GRP installation in a matter of minutes.

This solution provides a significant OPEX saving against the cost of complete removal and re-installation of a new lighting fixture. The robust Protecta enclosure is not compromised during the retro-fit process and all existing cabling and glanding can remain in place.



Standard Specification

Protecta IV Ex db eb LED Linear Retrofit Geartray

Type of Protection	Ex db eb (Flameproof, Increased Safety) Ex tb (Dust Protected Enclosure)
ATEX Classification	Group II Category 2 GD
Area Classification	Zone 1 and Zone 2 areas to EN/IEC 60079-10-1 Zone 21 and Zone 22 areas to EN/IEC 60079-10-2
Certificate	EU Type Examination Certificate - CML 23ATEX1426X IECEX Certificate of Conformity - IECEX CML 23.0140X UK Type Examination Certificate - CML 23UKEX1427X
Coding	Ex db eb IIC T5 Gb Ex tb IIIC T85°C Db IP6X
Geartray	Galvanised Steel
Installation	Fit into existing GRP body - refer to IOM
Control Gear	Electronic Driver
Optical Distribution	Wide beam
Colour Temperature (CCT)	5000K (Cool White)
Colour Rendering Index (Ra)	>80
Maintenance	Quick release diffuser clamp and hinged cover
LED Lifetime @ 60°C Ambient	L70 > 200,000hrs
System Life @ Ambient	120,000hrs @ 25°C; 90,000hrs @ 60°C [excluding battery]
Battery	Internal Ni-Mh (6V) [Emergency version only]
Emergency Duration	90 mins (02L = 50% output; 05L = 25% output, 07L = 20% output) [ASL/ASW Asymmetric versions - 3hours only]
Surge Protection	4kV
Electrical Supply	110-277V AC, 50/60Hz 127-250V DC

Features

- ◆ Highly Energy Efficient up to 149 lm/W
- ◆ >90,000 maintenance free hours at 60°C
- ◆ Battery management and automatic self test
- ◆ Multiple beam distributions available
- ◆ Front access cover with screwless mains terminals for easy termination

Product design and specifications are subject to change without notice. Please check the Chalmit website for latest specifications.

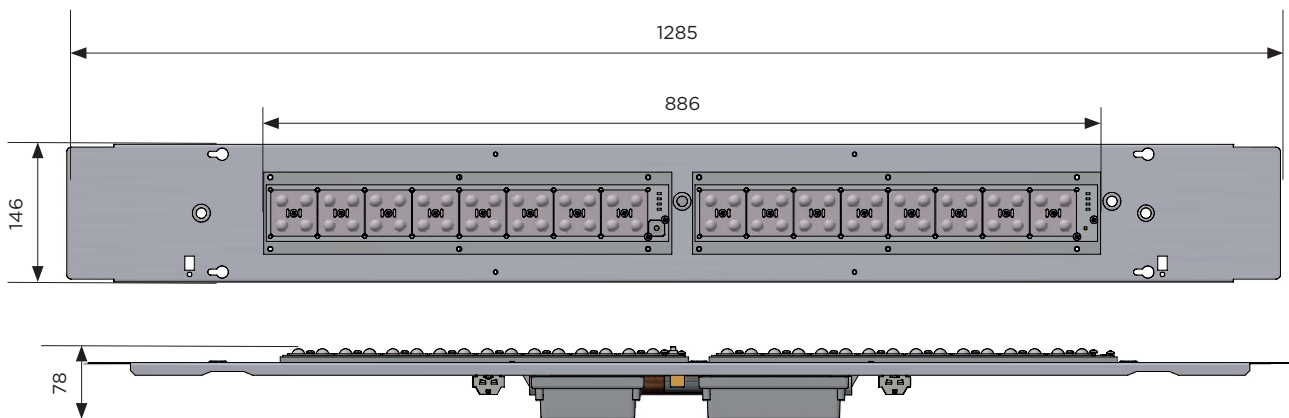
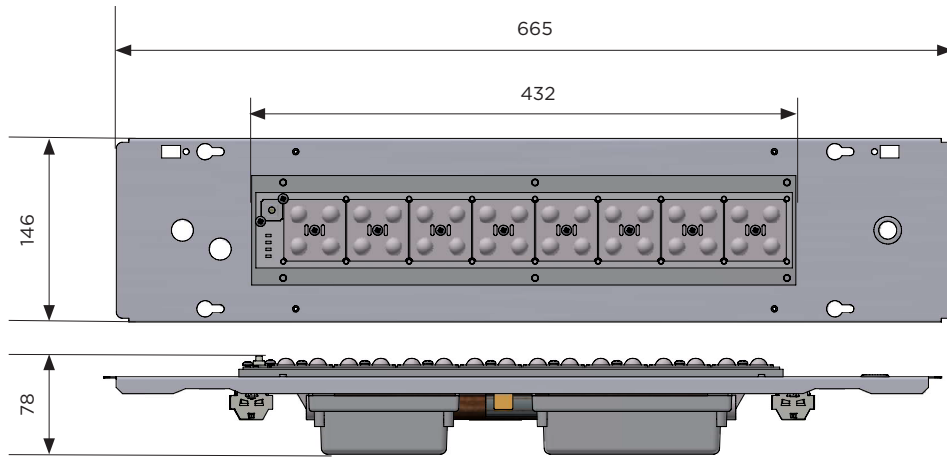
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Std. Cat No.	Delivered Output	Power Consumption	Tclass*	T°C (Dust)*	Ambient °C	Weight*
PRRB/02L/LE	2616 lm	18W	T5	100	-40 to +60	7.1kg
PRRB/05L/LE/2FT	5110 lm	35W	T5	100	-40 to +60	7.1kg
PRRB/05L/LE	5245 lm	35W	T5	100	-40 to +60	8.2kg
PRRB/07L/LE	7102 lm	53W	T5	100	-40 to +60	8.2kg
PRRB/02L/LE/EM	2616 lm	20W	T5	100	-25 to +60	7.6kg
PRRB/05L/LE/EM/2FT	5110 lm	37W	T5	100	-25 to +60	7.6kg
PRRB/05L/LE/EM	5245 lm	37W	T5	100	-25 to +60	8.7kg
PRRB/07L/LE/EM	7102 lm	55W	T5	100	-25 to +55	8.7kg

*Applicable only when fitted into Protecta enclosure

Options - Suffix to Catalogue No.

/3H	3 hour battery duration (O2L=25%, O5L=12.5%, O7L=10%) [standard on /ASW, /ASL & /220-240 versions]	/ASL	Asymmetric along length optic
/4K	4000K (Neutral White) LED Strips	/ASW	Asymmetric along width optic
/NST	Non Self Test [Emergency version only]	/220-240	Suitable for 220-240V AC electrical supply [Emergency version only]



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