




- Group II, Zone 1,
hazardous area bulkheads
- Product marking summary
 II 2 G D
 Ex d IIB T6 Gb
 Ex tb IIIC T80°C Db IP66
- CE, RoHS, ATEX, & IECEx
international product marks
- The most competitive, high-
end solution for projects
worldwide



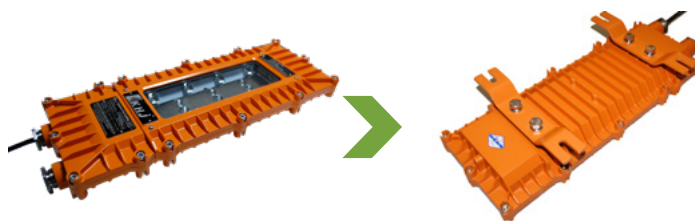
Trevithick Series

Explosion Proof Universal Bulkheads

CDN:SPEC35REV22



◀ Technical Specifications Summary



Performance Summary:

Code (Series-Wattage/Size)	TRE-18	TRE-30
Nominal Power	18W	30W
Luminaire Efficacy @ CRI>70, 5700K CCT	105lm/W	114lm/W
Lumen Output @ CRI>70, 5700K CCT	1,890lm	3,420lm
Chip Lumen Maintenance (TM21 Reported)	L80B10 ≥42,000 hours @ 25°C Ambient	
Chip Lumen Maintenance (TM21 Calculated)	L80B10 ≥70,000 hours @ 25°C Ambient	
Certification	CE, RoHS, ATEX, IECEx	
Product Warranty	5 Years	

Light Source and Photometric Parameters:

Chip Brand, Model, & Size	Osram Oslon SSL 3030
Chip Efficacy @ CRI>70, 5700K CCT	130lm/W @ 600mA
Light Emission	Direct
CCT	5700K, (3000K, 4000K optional)
CRI	≥70Ra, (≥80Ra optional)
Diffusers	Clear
Symmetric Light Distribution	120°

Electrical Parameters¹:

System Operating Power	18W	30W
Input Voltage	100-240VAC	
Input Frequency	50-60Hz	
Inrush Current @ 100-240VAC	24A	24A
Power Factor	>0.98	
THD	<10%	
Insulation Class	I	
Surge Protection/Fusing	5kV	

Environmental Parameters:

IP Rating	IP66
IK Rating ²	IK10/IK08 or IK10/IK10
Ambient Usage Tolerance	-40°C to 55°C
Ambient Storage Tolerance	-40°C to 55°C
Ambient Humidity Tolerance	0% to 90% RH

Physical/Mechanical Parameters:

Product Dimensions: LxWxH (mm)	480 x 180 x 62	480 x 180 x 62
Qty of LED Chips	14	28
Electrical Connection	Terminal Block 1mm ² to 4mm ² (Note: 1mm ² to 2mm ² if installed as Wire-In-Wire-Out configuration)	
Wire-In-Wire-Out Installation	Yes	
Inlet Thread	M20 (M20x1.5), M25 (M25x1.5), NPT3/4"	
Gland Type ^{3,4}	Brass with Nickel Plated Non-Armoured (Armoured optional)	
Suitable Cable Size (ø) ⁵	M20 = 6.1-13.2mm, M25 = 12.5-20.5mm, NPT3/4" = 12.5-20.5mm	
Fixture Weight ⁶	4.7kg	4.7kg
Fixture Primary Material(s)	ADC12 Aluminium Alloy (1.5-3.5% Copper) and 316 Stainless Steel Fixings	
Fixture Finish	Epoxy Powder Coating	
Lens(es) Materials	Tempered Glass	
Protection Method	Flame proof	





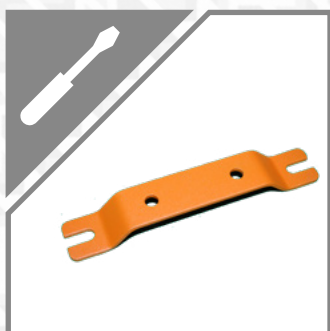
Code (Series-Wattage/Size)	TRE-18	TRE-30
Options/Accessories:		
Mounting Styles	Twin Pipe Clamp, Twin Surface Mount, Twin Eye bolts	
Miscellaneous Accessories	Wire Grill	
Available Product Colours	Orange (RAL2011), Grey (RAL7040)	

¹ Details are for standard non-dimming driver
² (Format: "IK Rating: Housing" / "IK Rating: Front Face") – IK10 if fitted with wire guard accessory
³ Wire-in-wire-out compatible products supplied with one non-armoured ATEX certified gland and one ATEX certified blanking plug.
⁴ Armoured Cable gland available as a optional accessory. Please contact Kellwood for more information.
⁵ Stated cable size is applicable to standard gland. Armoured cable may vary, contact Kellwood for more information.
⁶ Excludes bracketry. Refer to the Packaging Weights & Dimensions data sheet for bracketry and accessory weights

Certifications			
Division	ATEX Zone 1 & 21 and 2 & 22		
Product Marking	<div>⚡ II 2 G D</div> <div>Ex d IIB T* Gb</div> <div>Ex tb IIIC T80°C Db IP66</div> <div>*for further information please see temperate table</div>		
	Temperature Table		
	Product	Rated Power (Watts)	Temperature Class
-40° to 55°C (Ta)			
Gas			Dust
Trevithick Series	18W	T6	T80°C
	30W		
Certificate Number			
ATEX	LCIE 12 ATEX 3069 X / 01		
IECEX	IECEX CQM 12.0034X		

All stated values should be considered indicative only. Technical data is provided from sample luminaires and construction components as assessed by OEM(s) under industry-standard, laboratory conditions. In practice, stated values can vary. Kellwood Lighting operates a policy of continual product improvement. Our luminaires' capabilities are regularly enhanced to outperform in-class market alternatives. Please contact our technical team directly for clarifications prior to purchase. All images depicted should be considered indicative only. Stated product warranty periods do not include associated labour costs. Stated product warranty periods are for UK projects only. For international projects, please contact our offices directly. Optional upgrades can often affect or supersede unit technical parameters, capabilities, and warranties. It is the responsibility of the purchasing authority to ensure selected hardware is suitable for application. For further documentation, including Returns Policy and Conditions of Unit Failure, please contact our offices. Hazardous area documentation (eg. ATEX) are issued to OEM codes. WEEE compliance reference code: WEE/MP3838PR/SCH. Please do not look directly at LED lighting products during operation.
This datasheet & corresponding certification should be reviewed by a competent person to ensure project suitability.
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Technical Specifications Summary



Mounting Options

Twin surface mount brackets, twin pipe clamp mounts, twin eye bolts, & custom



Distribution

Wide dispersion pattern suitable for most applications



User-Friendly

Terminal block enclosure covers are secured to the luminaire for easier installation & faster maintenance



Environmental Protection

IP66, aluminium body c/w corrosion resistant paint finish - Salt spray testing reports available



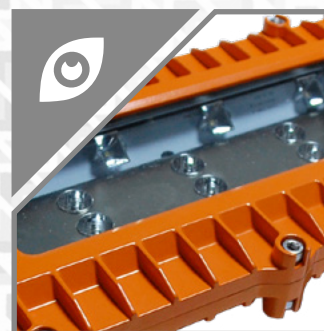
Impact Protection

IK09 body, IK08 tempered glass front-face - Wire guard accessory increases front-face impact protection from IK08 to IK10



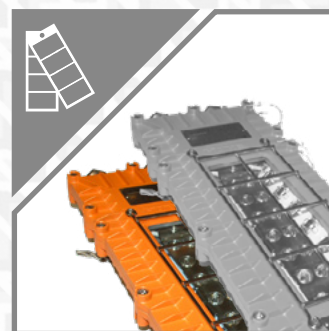
Electrical Protection

Custom-built PSU incorporates 5kV surge protection - Output voltage overload protection 48-51VDC



Reduced Glare

Recessed & spaced light engines also allow for excellent heat dissipation & low junction temperature



Optional Fittings Colours

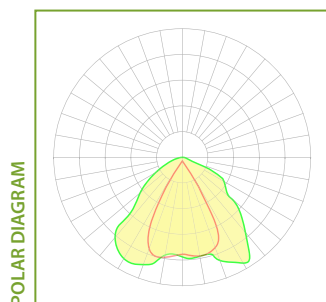
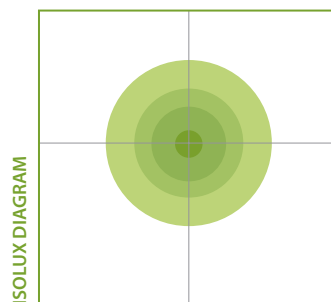
Orange, grey, custom - Available subject to MOQ



Please note - images shown are intended to be illustrative only. For exact data, please refer to specific product photometry, available for download from our website.

Indicative Product Photometry

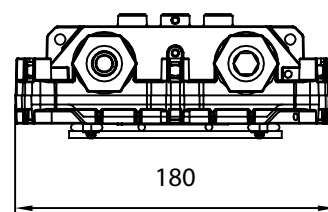
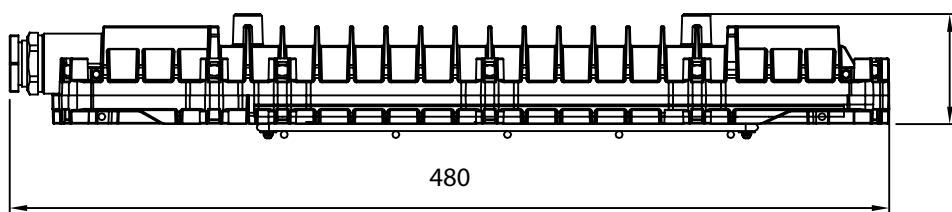
120° Optic >>



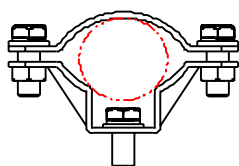
Colourations on isolux diagrams are qualitative, i.e. the same colour on any two isolux diagrams will not necessarily have the same lux value.

Dimensional Drawings

Nominal Power / Product Class 18W, 30W >>



Bracketry



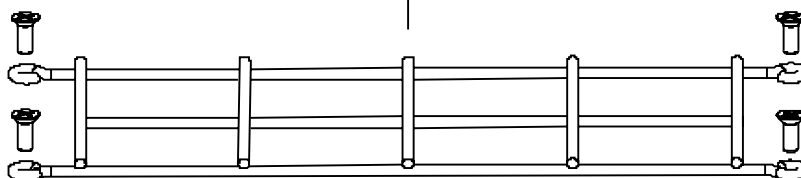
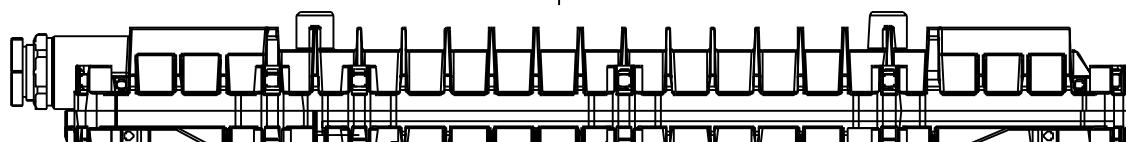
Pipe Clamp Mount



Surface Mount Bracket



Eye Bolt



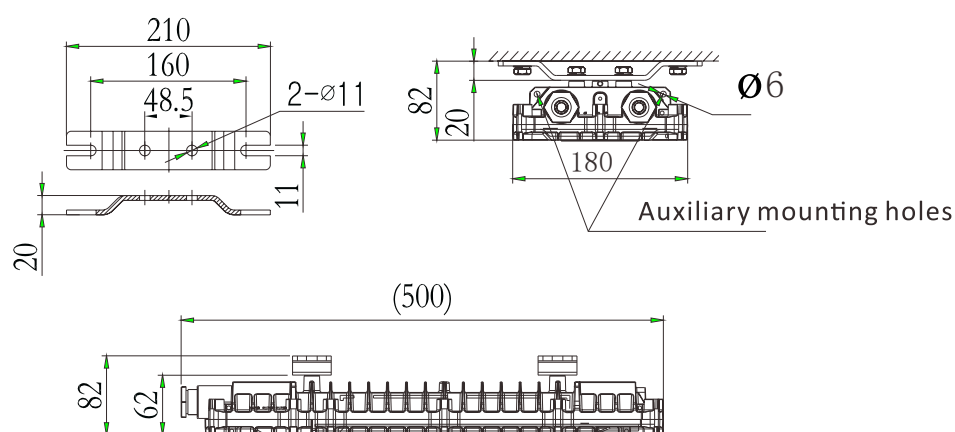
Wire Guard

All units are in mm

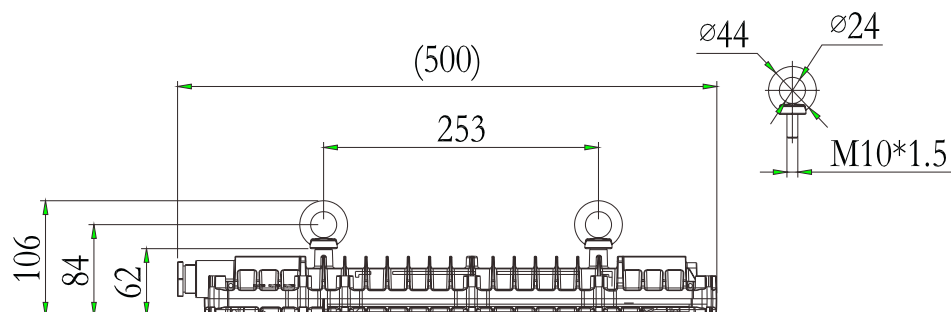


Dimensional Drawings

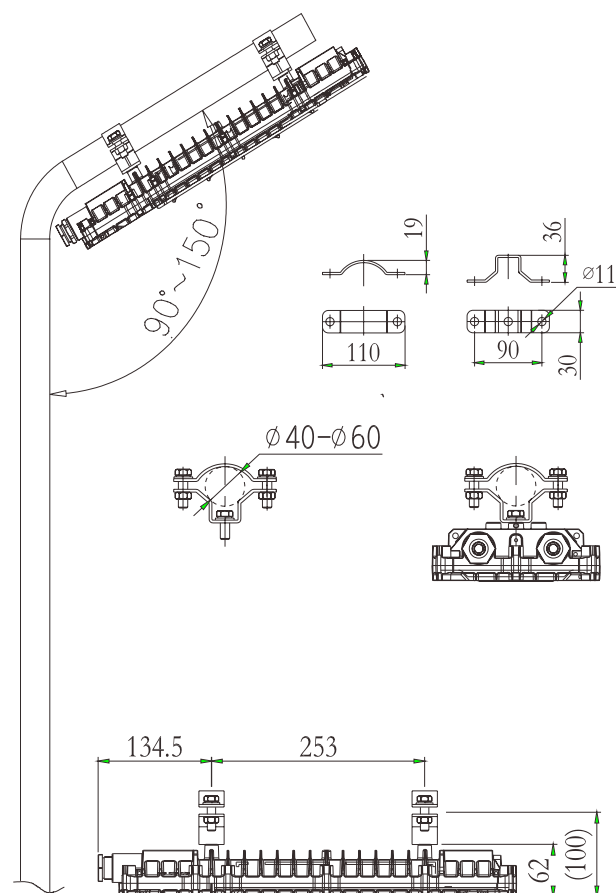
Twin Surface Mount Brackets



Twin Eye Bolts



Twin Pipe Clamp Mounts



All units are in mm



Standard product code fields are presented as:
Further customisation may be available - please contact us if required



Product Ordering Codes

PRODUCT	POWER	CRI & CCT	OPTIC	DRIVER	MOUNTING	COLOUR	THREAD	CONFIGURABLE OPTIONS			
TRE	18 18W	740 CRI >70, 4000K	120° CIRCULAR (H6V6)	V1 INPUT VOLTAGE 100-240 VAC	TP TWIN PIPE CLAMP MOUNT	OR ORANGE	I1 M25 INLET THREAD	WG WIRE GRILL			
	30 30W	750 CRI >70, 5000K			TM TWIN SURFACE MOUNT BRACKETS	GR GREY	I2 NPT3/4" INLET THREAD				
		757 CRI >70, 5700K					TE TWIN EYE BOLTS		I4 M20 INLET THREAD (REDUCER M25 TO M20)		
		830 CRI >80, 3000K									

Product Ordering Code Examples:

TRE-18-757-120-V1-TM-OR-I1

TRE-30-740-120-V1-TE-GR-I2-WG

BRACKETS & ACCESSORIES

CODE	DESCRIPTION
TRE-TP	TWIN PIPE CLAMP MOUNT FOR TREVITHICK SERIES
TRE-TM	TWIN SURFACE MOUNT FOR TREVITHICK SERIES
TRE-TE	TWIN EYE BOLTS FOR TREVITHICK SERIES
TRE-WG	WIRE GRILL FOR TREVITHICK SERIES

CONTACT OUR OFFICE FOR FURTHER INFORMATION ON DRIVER PARAMETERS

GENERAL NOTES:

1. IF MORE THAN ONE MODIFICATION IS REQUIRED, SEPARATE EACH MODIFICATION WITH A HYPHEN AT THE END OF THE PRODUCT CODE
2. PLEASE ENSURE SELECTION OF COMPATIBLE DRIVER FOR OCCUPANCY SENSORS WITH DIMMING FUNCTIONALITY
3. PLEASE NOTE THAT MODIFICATIONS WHICH AFFECT LIGHT OUTPUT HAVE SEPARATE PHOTOMETRIC FILES IDENTIFIED WITH "...+(MODIFICATION)"
4. ALTERNATIVE DRIVERS MAY BE AVAILABLE - PLEASE CONTACT OUR OFFICE FOR FURTHER DETAILS
5. IF PRODUCT IS CUSTOMISED, CODES WILL BE ALTERED AS NECESSARY - HAZARDOUS AREA CERTIFIED PRODUCT MODIFICATIONS ARE TYPICALLY LIMITED TO BRACKETRY (TO ENSURE COMPLIANCE WITH CERTIFICATION)
6. HAZARDOUS AREA CERTIFIED PRODUCTS ARE LISTED USING KELLWOOD'S STANDARD ORDERING CODE TEMPLATE FOR MARKETING PURPOSES. PRODUCTS WILL BE SUPPLIED WITH OEM NAMEPLATES, CODES & DOCUMENTATION CORRESPONDING TO PRODUCT CERTIFICATION

NOTE: 2017 Product Code Updates

This product series previously used ordering codes starting with LED/HAZ-TRE/... Please contact us if you require further information on corresponding codes.

