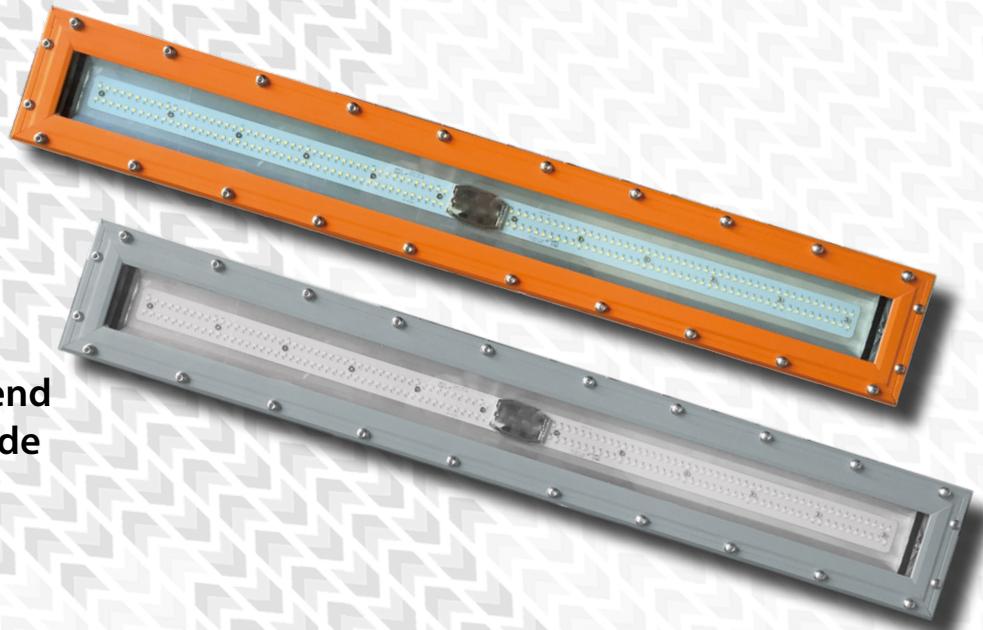




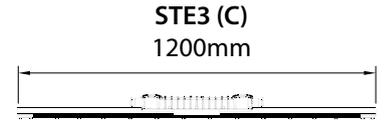
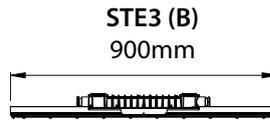
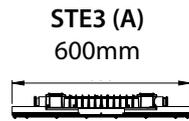
- Group II, Zone 1, hazardous area linear luminaires with optional 3 hour emergency function
- Product marking summary
⊕ II 2 GD
Ex d eb op is IIB T6 Gb
Ex tb op is IIIC T80°C Db
- CE, RoHS, ATEX & IECEx international product marks
- The most competitive, high-end solution for projects worldwide



Stephenson 3 Series Explosion Proof Linear Fittings

CDN:SPEC137REV18

Technical Specifications Summary



Performance Summary:

Code (Series-Wattage/Size)	STE3-18A	STE3-36A	STE3-48A	STE3-36B	STE3-48B	STE3-56B	STE3-72B	STE3-36C	STE3-48C	STE3-56C	STE3-72C
Nominal Power	18W	36W	48W	36W	48W	56W	72W	36W	48W	56W	72W
Luminaire Efficacy @ 5700K CCT, CRI>70	130lm/W										
Lumen Output @ 5700K CCT, CRI>70	2,340lm	4,680lm	6,240lm	4,680lm	6,240lm	7,280lm	9,360lm	4,680lm	6,240lm	7,280lm	9,360lm
Chip Lumen Maintenance (TM21 Reported)	L80B10 ≥50,000 hours @ 25°C Ambient										
Chip Lumen Maintenance (TM21 Calculated)	L80B10 ≥98,924 hours @ 25°C Ambient										
Certification	CE, RoHS, ATEX, IECEx										
Product Warranty	5 Years, 3 Years (Emergency)										

Light Source and Photometric Parameters:

Chip Brand, Model, & Size	Osram Duris S5
Chip Efficacy @ 6000K CCT, CRI>70	190lm/W @ 60mA
Light Emission	Direct
CCT	5700K, (3000K, 4000K, 5000K optional)
CRI	≥70, (≥80 optional)
SDCM	<5
Diffusers	Clear, Frosted
Symmetric Light Distribution	120°
Asymmetric Light Distribution	N/A

Electrical Parameters:

System Operating Power	18W	36W	48W	36W	48W	56W	72W	36W	48W	56W	72W
Dimmable	N/A										
System Power Factor	>0.9										
Input Voltage	100-277VAC, 220-240VAC										
Input Frequency	50-60Hz										
Inrush Current	21A/280µs	22A/280µs				50A/220µs		22A/280µs		50A/220µs	
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	-20°C to 55°C
Ambient Storage Tolerance	-40°C to 55°C
Ambient Humidity Tolerance	10% to 90% RH

Physical/Mechanical Parameters:

Product Dimensions: LxWxH (mm)	600 x 136 x 85			900 x 136 x 85				1200 x 136 x 85			
Qty of LED Chips	64	96	128	96	128	128	192	80	120	120	160
Electrical Terminal Block Capacity	15Amps, 1.5mm ² to 6mm ² (see below for recommended cable size)										
Wire-In-Only Electrical Connection	Recommended 1mm ² to 4mm ² (subject to compatible ferrule size with terminal block)										
Wire-In-Wire-Out Electrical Connection	Shared terminals. Recommended 1mm ² to 2.5mm ² (subject to compatible ferrule size with terminal block)										
Wire-In-Wire-Out Installation	Yes										
Inlet Thread	M20 (M20x1.5), M25 (M25x1.5), NPT3/4"										
Gland Type ^{3,4}	Stainless Steel Non-armoured (Armoured optional)										
Suitable Cable Size (ø) ⁵	M20 = 9.5-15.9mm, M25 = 12.5-20.5mm, NPT3/4" = 12.5-20.5mm										

Technical Specifications Summary

Code (Series-Wattage/Size)	STE3-18A	STE3-36A	STE3-48A	STE3-36B	STE3-48B	STE3-56B	STE3-72B	STE3-36C	STE3-48C	STE3-56C	STE3-72C
Physical/Mechanical Parameters:											
Fixture Weight ⁶	6.4kg			8.7kg			11.0kg				
Fixture Primary Material(s)	6063 Copper-Free Aluminium Alloy (≤0.1% Copper) and 316 Stainless Steel Fixings										
Fixture Finish	Epoxy Powder Coated										
Lens(es) Materials	Tempered Glass										
Protection Method	Flame Proof										
Options/Accessories:											
Mounting Styles	Twin Surface, Twin Eye Bolts, Twin Pipe Clamp, Stanchion, Clamp Mount										
Miscellaneous Accessories	Wire Grill, Integrated Emergency (Remote Test)										
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

Emergency Options Summary:											
Emergency Variant Code	E3R1										
Test Method	Remote-Test										
Style	Integrated										
Output Power in Emergency Mode	5W										
Emergency Lumen Output @ 6000K CCT	650lm										
Emergency Correction Factor	0.277	0.138	0.104	0.138	0.104	0.089	0.069	0.138	0.104	0.089	0.069
Battery Brand	JJJ										
Battery Model	J-C2800										
Battery Chemical Composition	Ni-CAD										
Battery Configuration	1 x 3 Cell Stick										
Battery Capacity	8400mAh										
Battery Output Voltage	3.6V										
Battery Output max Current	2800mA										
Output Power Duration	3 hours										
Time to Charge	16 hours										

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

Certifications			
Division	ATEX Zone 1 & 21 and 2 & 22		
Product Marking ATEX Certificate Issue 01	⚠ II 2 G D Ex d eb op is IIB T* Gb Ex tb op is IIIC T* Db *for further information please see temperate table		
Product Marking ATEX Certificate Issue 02	⚠ II 2 G D Ex d eb op is IIC T* Gb Ex tb op is IIIC T* Db *for further information please see temperate table		
Temperature Table			
Product	Rated Power (Watts)	Temperature Class	
		-20° to 55°C (Ta)	
		Gas	Dust
Stephenson Series	18W	T6	T80°C
	36W		
	48W		
	56W		
	72W		
Certificate Number			
ATEX	TUV 15 ATEX 7673 X		
IECEX	IECEX TUR 16.0028X		

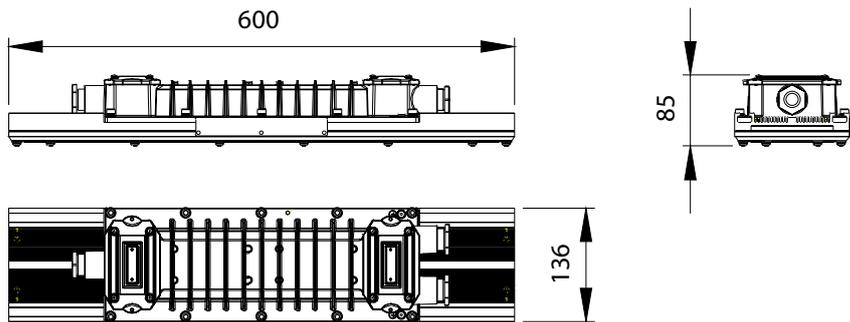
Brackets

Surface Mount Brackets	Eye Bolt	Pipe Clamps	Stachion Brackets	Clamp Mounts
SM	TE	TP	ST	CM
			<p>for 600mm</p> <p>900mm & 1200mm</p>	<p>for 600mm</p> <p>900mm & 1200mm</p>

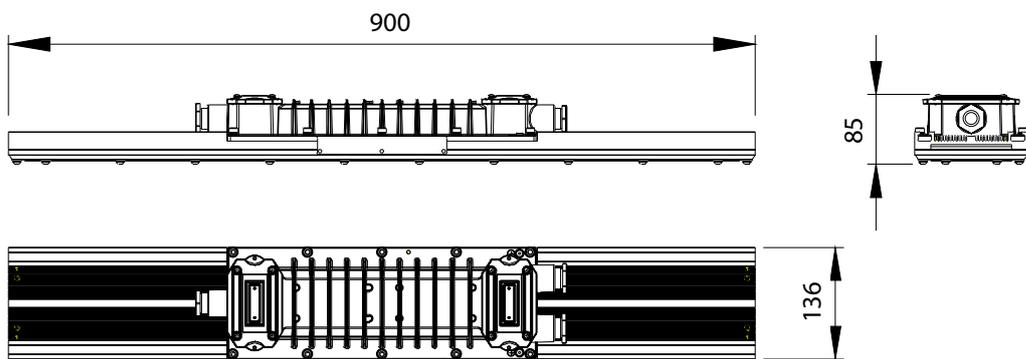


◀ Dimensional Drawings

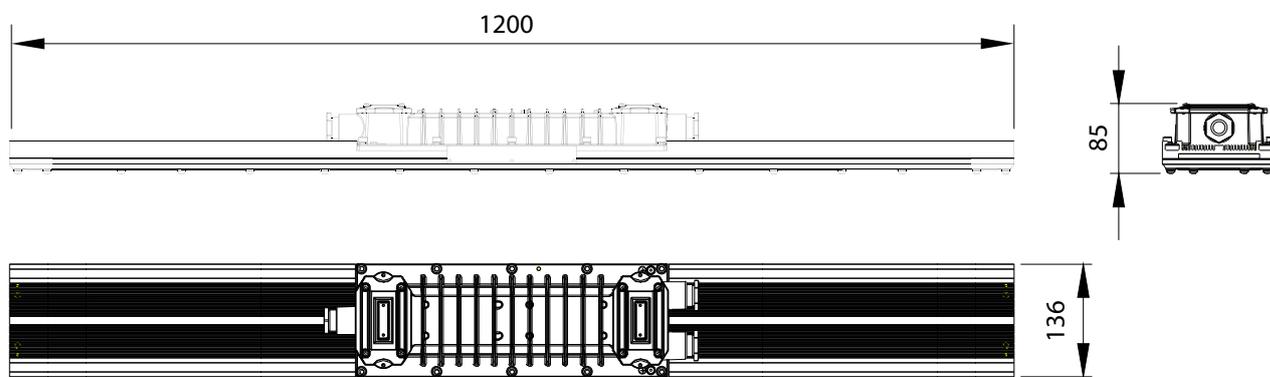
Nominal Power / Product Class "A" 18W, 36W, 48W



Nominal Power / Product Class "B" 36W, 48W, 56W, 72W



Nominal Power / Product Class "C" 36W, 48W, 56W, 72W



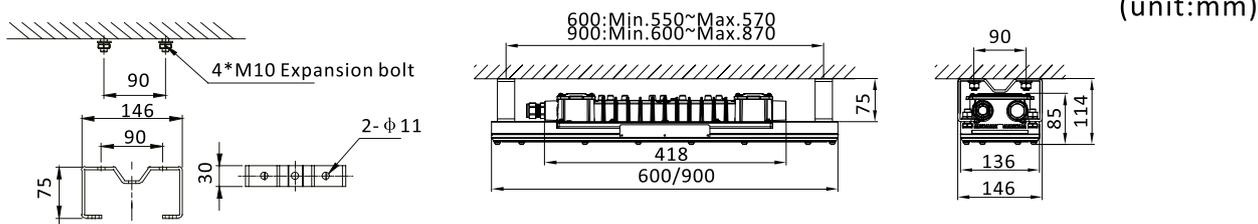
All units are in mm



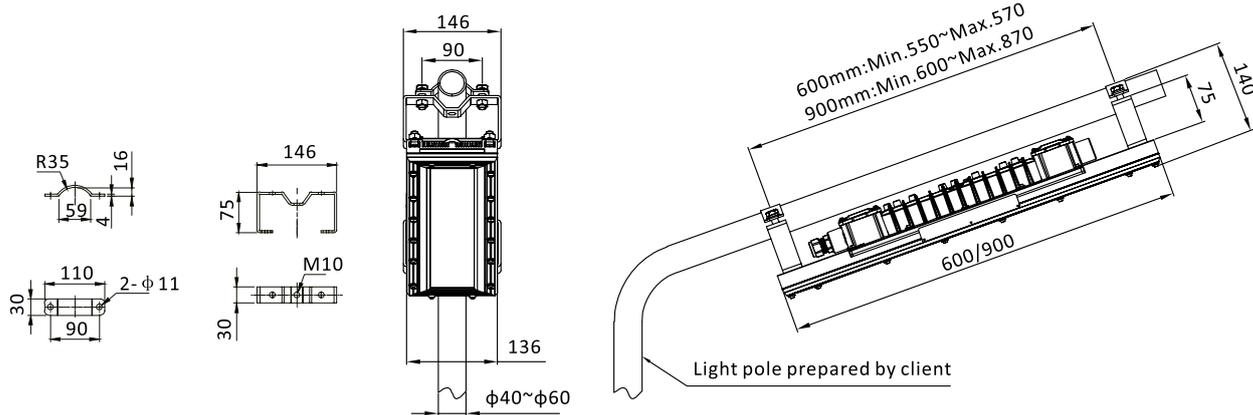


Dimensional Drawings

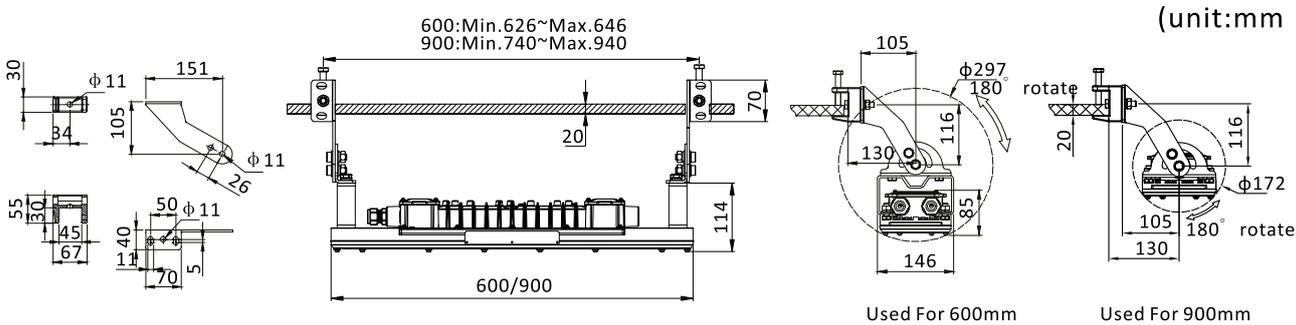
Twin Surface Mount Brackets



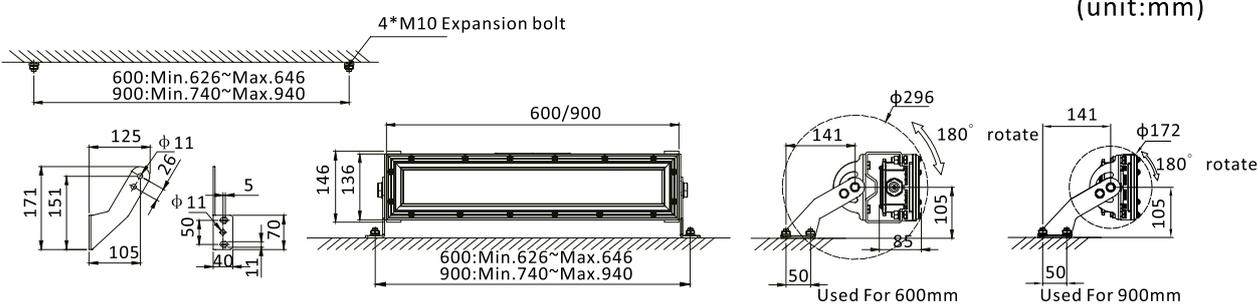
Twin Pipe Clamp Mounts



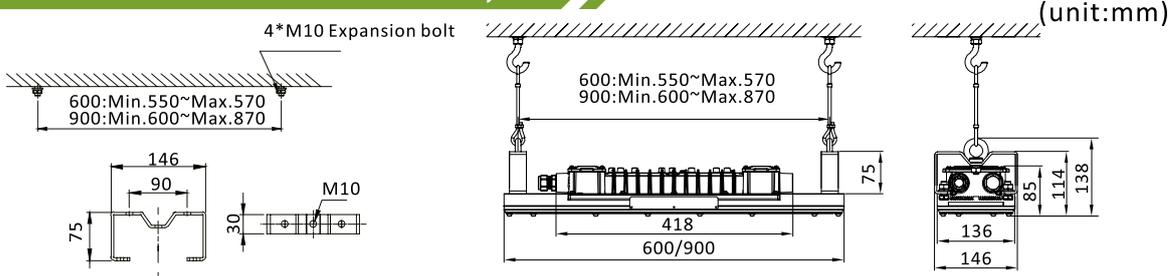
Clamp Mounts



Stanchion Mounts



Twin Eye Bolts



Technical Specifications Summary



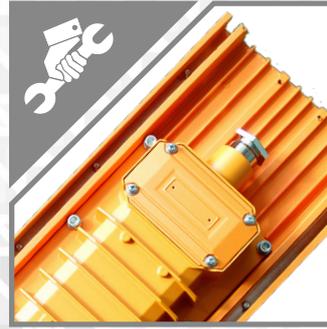
Mounting Options

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



Distribution

Wide dispersion pattern suitable for most applications



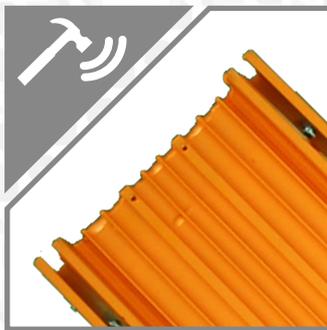
User Friendly

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



Environmental Protection

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



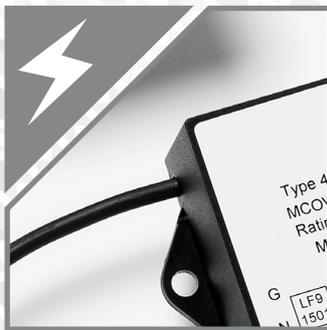
Impact Protection

IK10W body, IK08 tempered glass front-face - Wire guard accessory increases front-face impact protection from IK08 to IK10



Reduced Glare

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



Electrical Protection

Custom-built PSU incorporates 5kV surge protection - Output voltage overload protection 48-53VDC



Emergency Mode

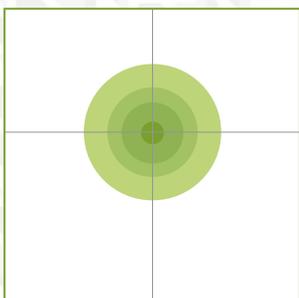
Optional maintained, 3 hour emergency function (integrated)

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.

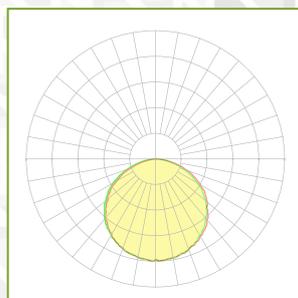
Indicative Product Photometry

H7V7 - 120°

ISOLUX DIAGRAM



POLAR DIAGRAM



3D VISUAL RENDER



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



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
STE3	18A 18W 600mm	740 CRI >70, 4000K	120 120° CIRCULAR (H7V7)	V4 INPUT VOLTAGE 100-277 VAC	TM TWIN SURFACE MOUNT BRACKETS	OR ORANGE	I1 M25 INLET THREAD	E3R1 ^{1,2} INTEGRATED 3 HOUR SW MAINTAINED EMERGENCY (REMOTE TEST)
	36A 36W 600mm	750 CRI >70, 5000K	FR FROSTED DIFFUSER	V7 ² INPUT VOLTAGE 200-277 VAC	TE TWIN EYE BOLTS	GR GREY	I2 NPT3/4" INLET THREAD	WG WIRE GRILL
	48A 48W 600mm	757 CRI >70, 5700K			TP TWIN PIPE CLAMP MOUNT		I4 M20 INLET THREAD	IIC CERTIFIED VERSION (Ex d eb op is IIC T6 Gb PRODUCT MARKING)
	36B 36W 900mm	830 CRI >80, 3000K			ST STANCHION MOUNT			
	48B 48W 900mm				CM CLAMP MOUNT			
	56B 56W 900mm							
	72B 72W 900mm							
	36C 36W 1200mm							
	48C 48W 1200mm							
	56C 56W 1200mm							
72C 72W 1200mm								

Product Ordering Code Examples:

STE3-48A-860-120-V4-TE-OR-I1

STE3-72B-860-120-V7-TM-GR-I2-E3R1

STE3-72B-860-120-V7-TM-OR-I1-E3R1

CONTACT OUR OFFICE FOR FURTHER INFORMATION ON DRIVER PARAMETERS

BRACKETS & ACCESSORIES

CODE	DESCRIPTION
STE3-TM	TWIN SURFACE MOUNT BRACKETS FOR STEPHENSON 3 SERIES
STE3-TE	TWIN EYE BOLTS FOR STEPHENSON 3 SERIES
STE3-TP	TWIN PIPE CLAMP MOUNTS FOR STEPHENSON 3 SERIES
STE3-ST	STANCHION MOUNT FOR STEPHENSON 3 SERIES
STE3-CM	CLAMP MOUNT FOR STEPHENSON 3 SERIES
STE3-WG	WIRE GRILL

¹18W, 36W, 48W & 56W EMERGENCY VERSION E3R1 IS ONLY AVAILABLE WITH 100-277 VAC (V4) VOLTAGE INPUT

²72W EMERGENCY VERSION E3R1 IS ONLY AVAILABLE WITH 200-277 VAC (V7) VOLTAGE INPUT

GENERAL NOTES:

- IF MORE THAN ONE MODIFICATION IS REQUIRED, SEPARATE EACH MODIFICATION WITH A HYPHEN AT THE END OF THE PRODUCT CODE
- PLEASE ENSURE SELECTION OF COMPATIBLE DRIVER FOR OCCUPANCY SENSORS WITH DIMMING FUNCTIONALITY
- PLEASE NOTE THAT MODIFICATIONS WHICH AFFECT LIGHT OUTPUT HAVE SEPARATE PHOTOMETRIC FILES IDENTIFIED WITH "...+(MODIFICATION)"
- ALTERNATIVE DRIVERS MAY BE AVAILABLE - PLEASE CONTACT OUR OFFICE FOR FURTHER DETAILS
- 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)
- 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

