Group II, Zone 1, hazardous area linear luminaires with emergency signage

⟨Ex⟩ II 2 GD
Ex d eb op is IIB T6 Gb
Ex tb op is IIIC T80°C Db

CE, RoHS, & ATEX international product marks

Shepherd Series
Explosion Proof Emergency Bulkheads

CDN:SPEC158REV9

Performance Summary:

Code (Series-Wattage/Size)	SHE-18A
Operating Power (Mains)	18W
Operating Power (Battery)	5W
Chip Lumen Maintenance (TM21 Reported)	L80B10 ≥50,000 hours @ 25°C Ambient
Chip Lumen Maintenance (TM21 Calculated)	L80B10 ≥73,000 hours @ 25°C Ambient
Certification	CE, RoHS, ATEX
Product Warranty	3 Years

Light Source and Photometric Parameters:

Chip Brand, Model, & Size	Jufei 2835
Light Emission	Direct
CCT	6000K
CRI	≥80
Diffusers	Clear with emergency graphic
Symmetric Light Distribution	120°

Electrical Parameters[1]:

System Operating Power	18W
System Power Factor	>0.98
Input Voltage	100-277VAC
Input Frequency	50-60Hz
Inrush Current	50A (100-277VAC)
Power Factor	>0.98
THD	<10%
Insulation Class	I
Surge Protection/Fusing	5kV

Environmental Parameters:

IP Rating	IP66
IK Rating[2]	IK10 (Housing) / IK08 (Front Face)
Ambient Usage Tolerance	-20°C to 55°C
Ambient Storage Tolerance	-20°C to 55°C
Ambient Humidity Tolerance	0% to 90% RH

Physical/Mechanical Parameters:

Product Dimensions: LxWxH (mm)	600 x 187 x 85
Qty of LED Chips	384
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]	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
Fixture Weight[6]	8.5kg
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

Technical Specifications Summary

Code (Series-Wattage/Size)	SHE-18A
Options/Accessories:	
Mounting Styles	Twin Surface, Twin Eye Bolts, Twin Pipe Clamp, Stanchion, Clamp Mount
Miscellaneous Accessories	Emergency Legend: Arrow Up, Arrow Down, Arrow Left, Arrow Right
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 ATEX Certificate Issue 01	⟨Ex⟩ **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	⟨Ex⟩ **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		

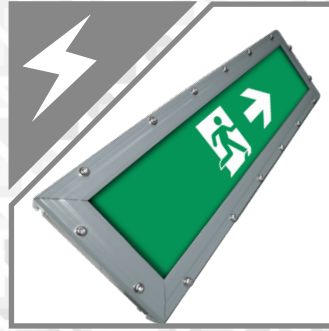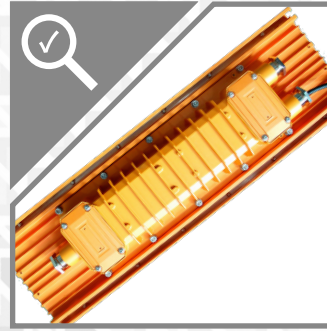| Certificate Number	
ATEX	**TUV 15 ATEX 7673 X**
IECEx	**IECEx TUR 16.0028X**

Technical Specifications Summary

Mounting Options

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

Input Voltage

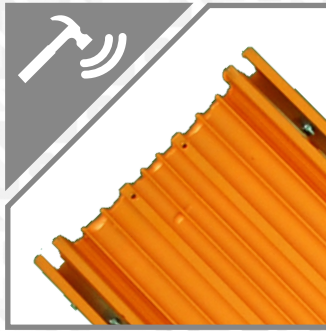Suitable for connection to 100-277VAC electrical supplies

Special Features

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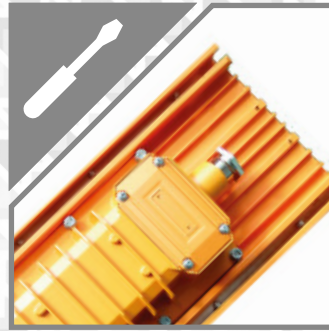
Environmental Protection

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

Impact Protection

IK10 body, IK08 tempered glass front-face

Connection Options

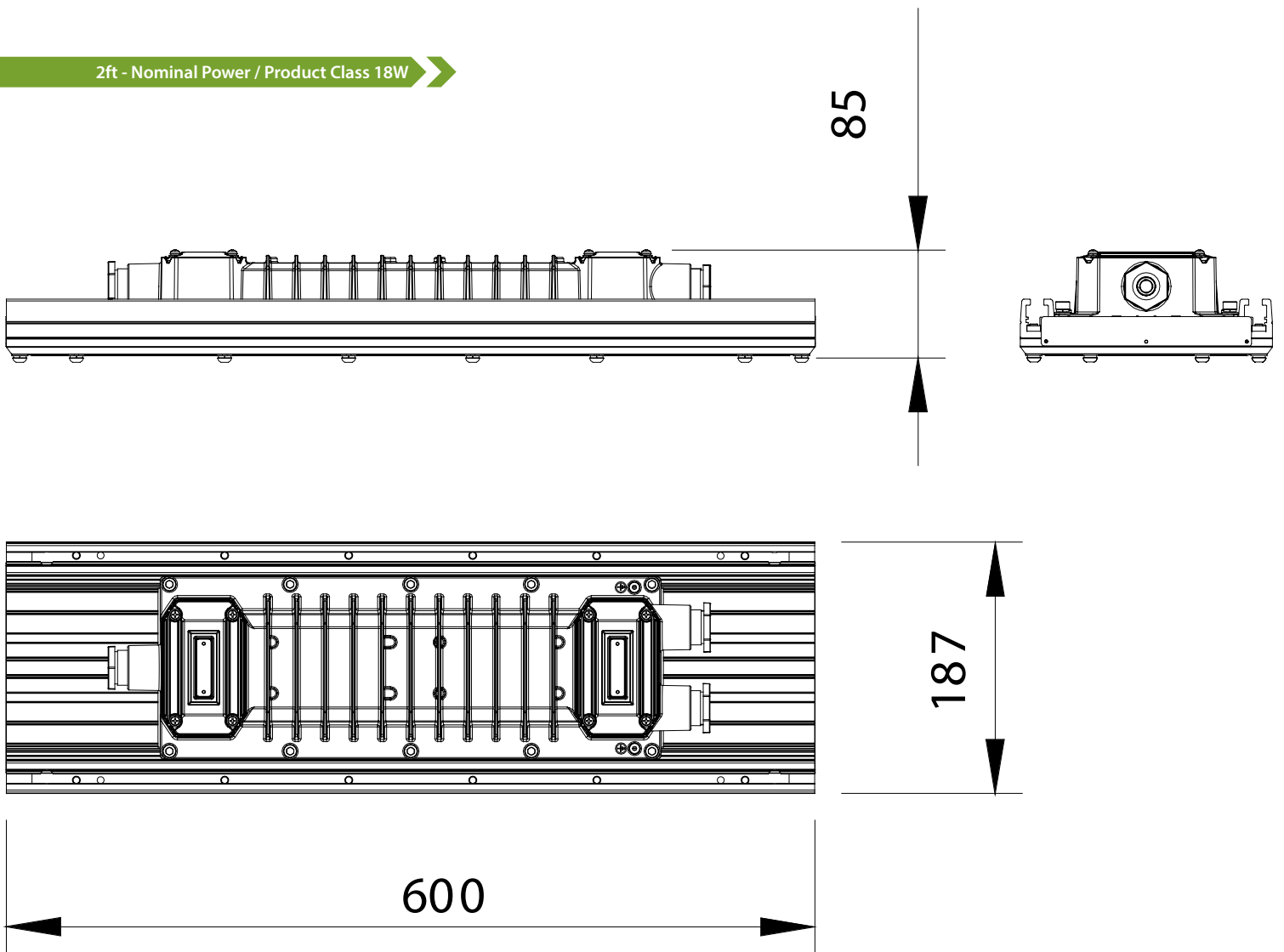Multiple gland types available, suitable for standard or armoured cable types

Emergency Options

Emergency signage has configurable options of using Arrow up, down, left, and right

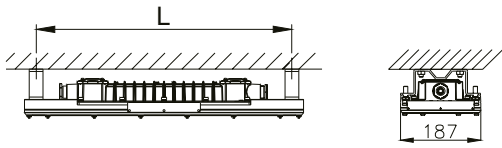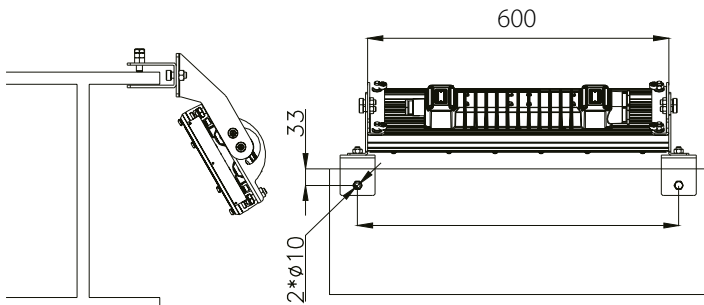## Dimensional Drawings

2ft - Nominal Power / Product Class 18W

85

187

600

All units are in mm

Dimensional Drawings

Twin Surface Mount Brackets

187

	L(Max)	L(Min)
0.6M	550	500

Clamp Mounts

600

33

2*⌀10

Twin Eye Bolts

L

128

187

	L(Max)	L(Min)
0.6M	550	500

Twin Pipe Clamp Mounts

⌀44.4

135.7

187

L

⌀40~⌀60

	L(Max)	L(Min)
0.6M	460mm	400mm

Stanchion Mount
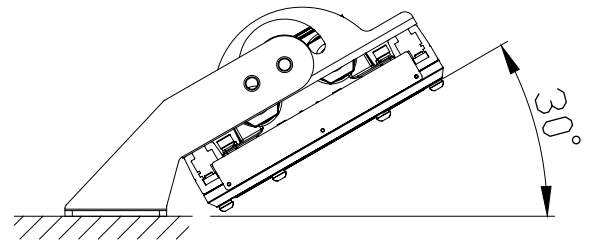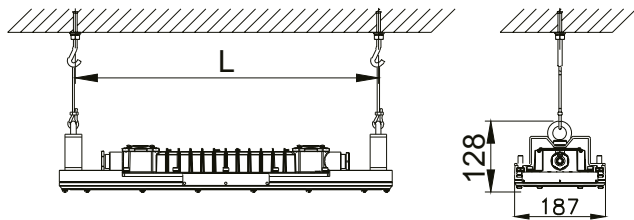
30°
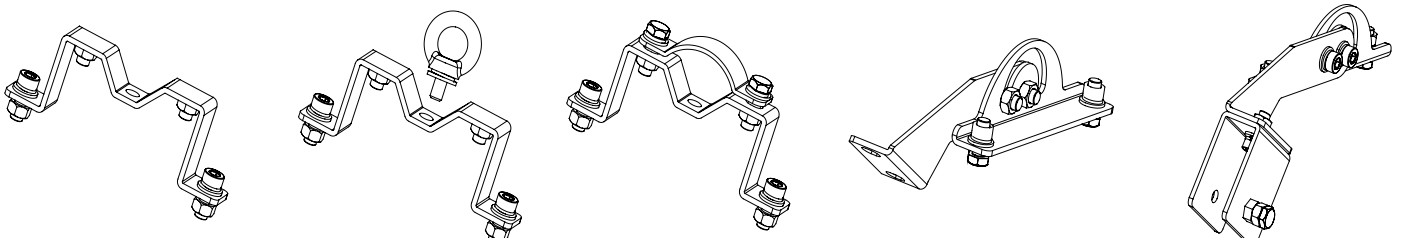
Bracketry

Surface Mount Brackets

Eye Bolt

Pipe Clamps

Stanchion Brackets

Clamp Mounts

All units are in mm

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

CODE
Description

730
CRI>70, 3000K

Product Ordering Codes

PRODUCT	POWER	CRI & CCT	OPTIC	DRIVER	MOUNTING	COLOUR	THREAD	EMERGENCY & CONFIGURABLE OPTIONS
SHE	**18A** 18W, 2ft	**860** CRI >80, 6000K	**120** 120° CIRCULAR (H7V7)	**V4** INPUT VOLTAGE 100-277 VAC	**TM** TWIN SURFACE MOUNT BRACKETS	**OR** ORANGE	**I1** M25 INLET THREAD	**E3R1-AD** INTEGRATED 3 HOUR 5W MAINTAINED EMERGENCY (REMOTE TEST) ARROW DOWN
					TE TWIN EYE BOLTS	**GR** GREY	**I2** NPT3/4" INLET THREAD	**E3R1-AL** INTEGRATED 3 HOUR 5W MAINTAINED EMERGENCY (REMOTE TEST) ARROW LEFT
					TP TWIN PIPE CLAMP MOUNT		**I4** M20 INLET THREAD	**E3R1-AR** INTEGRATED 3 HOUR 5W MAINTAINED EMERGENCY (REMOTE TEST) ARROW RIGHT
					ST STANCHION MOUNT			**E3R1-AU** INTEGRATED 3 HOUR 5W MAINTAINED EMERGENCY (REMOTE TEST) ARROW UP
					CM CLAMP MOUNT			

Product Ordering Code Examples:
SHE-18A-860-120-V4-TE-OR-I1-E3R1-AD
SHE-18A-860-120-V4-TP-GR-I3-E3R1-AL

BRACKETS & ACCESSORIES	
CODE	**DESCRIPTION**
SHE-TM	TWIN SURFACE MOUNT BRACKETS FOR SHEPHERD SERIES
SHE-TE	TWIN EYE BOLTS FOR SHEPHERD SERIES
SHE-TP	TWIN PIPE CLAMP MOUNTS FOR SHEPHERD SERIES
SHE-ST	STANCHION MOUNT FOR SHEPHERD SERIES
SHE-CM	CLAMP MOUNT FOR SHEPHERD SERIES

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

CONTACT OUR OFFICE FOR FURTHER INFORMATION ON DRIVER PARAMETERS