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SPARTAN SPX-BL24
LED Zone 1/21 Bulkhead

Intelligent Emergency Variants

- ATEX and IEC Ex approved – Zone 1/21
- ABS approved
- Zone 2 variant available and C1D2 (UL/CSA)
- Intelligent Emergency variants - up to 100% light output
- Ultra long life, high lumen output LED
- Easy installation, maintenance and inspection
- Wide operating temperature range -50° to +55°C
- VARIO lens technology – easy modification of beam patterns
- 5 year warranty

The SPARTAN Bulkhead range is designed specifically for hazardous environments which require high performance, high reliability, White-Light illumination. Using Raytec's field-proven, long-life LED technology, SPARTAN Bulkhead is ATEX and IEC Ex approved for all Zone 1 applications and rated for T4 environments.

SPARTAN Bulkhead is ideal for applications where space is restricted with its compact, low profile design, which also allows easy access to the back of the unit with rear cable entries, so cabling can be hidden and protected from damage. Housed in marine grade aluminium, SPARTAN Bulkhead is IP66 and IP67 rated and can survive the most extreme environments.

SPARTAN Bulkhead is available as an intelligent emergency variant which self-tests the emergency battery to proactively monitor and maintain the overall health status of the luminaire. Available in a range of different beam patterns, both circular and elliptical, with revolutionary interchangeable VARIO lens inserts which can be easily altered on site delivering the ultimate flexibility to specifiers, distributors and end users. Delivering high performance illumination of up to 2,500 lumens.

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Intelligent Emergency - Self-testing Functions

LED Indication	Condition
	Battery charged and PSU OK
	Emergency mode activated
	Function Test
	Self-test
	Commissioning
	Fault - further troubleshooting required

LED Indicator

Features	Benefits
Intelligent Emergency	Self-testing emergency battery which proactively monitors and maintains the overall health of the luminaire Easy inspection thanks to a tri-colour LED indicator
Modular Design	Both the LED and PSU modules are easily accessible for maintenance and inspection Available as a standard or emergency fitting – upgradeable on site.
Ultra-Powerful	High lumen output - up to 2,500 lumens Latest high power LED technology
Ultra-Flexible	Beam patterns from 10° to 120° both circular and elliptical. Operating temperature range of -52°C to + 55°C with a T4 and T5 rating for even the most challenging conditions. (-20°C to +46°C for emergency variants) Models incorporating VARIO Technology allow for easy modification of beam pattern.
Ultra-Reliable	Industry leading 5 year warranty Designed and manufactured in the UK to the highest standards including both ISO9001 & ISO14001. Advanced electronics and LED's protected by vibration resistant and water proof potting compound Intelligent emergency with automatic self-testing
Ultra-Efficient	LEDs are thermally managed to deliver class leading energy efficiency Significant running and maintenance savings compared to traditional lighting technologies SMART access wiring system for safe and efficient installation, set-up and ongoing inspection
Support Services	Photometric files available (.ies & .ldt) Full Lighting Design Service Site specific Energy and Cost Saving Report available

5 YEAR WARRANTY

All Raytec luminaires are provided with an industry leading 5 year warranty and have an expected useful life in excess of 10 years

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Technical Specifications

Certification

ATEX Rating:	ATEX and IEC Ex rated for Gas and Dust
Hazardous Area rating:	Zone 1 (Gas), Zone 21 (Dust)
Certificates:	CML13ATEX3007 & IECEx CML14.0001
Gas:	II 2 G D Ex e mb IIC T4 Gb Ta= Up to -52°C to +55°C (-20°C to +46°C for emergency variants)
Dust:	Ex tb IIC T98°C Db Ta= Up to -52°C to +55°C (-20°C to +46°C for emergency variants) IP66 & IP67
ABS Rating:	ABS Certificate # 20-1990083-PDA

Optical

Beam Patterns-circular:	10°x 10° or 30°x 30° or 50°x 50° or 120°x 120° (10 x 10 option can be upgraded to Vario Technology)
Beam Patterns-elliptical:	35°x 10°or 60°x 25°or 80°x 30° or 120°x 50° (VARIO)
Lumen output on mains:	2,500 lm – circular beam patterns 2,250 lm – elliptical beam patterns (VARIO)
LED type:	Platinum Elite SMT LEDs
Number of LEDs:	24
CRI	80+
Colour Temperature:	6,000K

Electrical

Input:	110-254V 50/60Hz AC only Low voltage: 18-48V AC and 18-69V DC Extra low voltage: 12V AC/DC
Power:	34W standard 37W emergency
Termination	Incoming terminal block suitable for looping 4 core 4mm² cable (6mm² available - POA)
Power Factor:	>0.95
Cable Entries	4xM20 as standard (other entries available upon request), dispatched complete with three ATEX/IEC Ex approved blanking plug

Mechanical/Environmental

Burning position:	Universal
IP rating:	IP66 & IP67
Temperature range:	-50°C to +55°C (-20°C to +46°C for emergency variants)
Weight:	5kg (11.0lbs) Standard 6kg (13.2lbs) Emergency
Enclosure:	Marine grade aluminium epoxy powder coated, toughened glass, all external fasteners and brackets are marine grade stainless steel
Unit Colour:	Silver (RAL 9006)
Installation instructions:	Please see document 940-M-00069 at www.raytecled.com
Battery Care Instructions:	Please see document 0010-D-00001 at www.raytecled.com
Dimensions:	288 x 220 x 122mm (11.3 x 8.7 x 4.8")
Mounting:	Comes complete with stainless steel brackets (as shown on previous page) Other options available

Intelligent Emergency Battery Back-Up

Function:	Self-testing intelligent emergency
System health indicator:	Tri-colour LED indicator
Emergency Duration:	Up to 3hrs @ 25% power Other options available
Emergency Battery:	2.5 Ah
Emergency Charge Time:	20 hours

Product Codes - Zone 1/21

Circular beam pattern

Part Codes	Description (T4 variants as standard)
SPX-BL24-W-1010	SPARTAN Bulkhead, 24 LED, White-Light, 10°x 10° beam
SPX-BL24-W-3030	SPARTAN Bulkhead, 24 LED, White-Light, 30°x 30° beam
SPX-BL24-W-5050	SPARTAN Bulkhead, 24 LED, White-Light, 50°x 50° beam
SPX-BL24-W-120120	SPARTAN Bulkhead, 24 LED, White-Light, 120°x 120° beam

Elliptical beam pattern

Intelligent Emergency variant available, add -EMX25 to the above codes - Not available in LV or ELV variants
18-69V variants available, add -LV to the above codes
12V variants available, add -ELV to the above codes
Contact Raytec for T5 variants

Part Codes	Description (T4 variants as standard)
SPX-BL24-W-3510	SPARTAN Bulkhead, 24 LED, White-Light, 35°x 10° beam
SPX-BL24-W-6025	SPARTAN Bulkhead, 24 LED, White-Light, 60°x 25° beam
SPX-BL24-W-8030	SPARTAN Bulkhead, 24 LED, White-Light, 80°x 30° beam
SPX-BL24-W-12050	SPARTAN Bulkhead, 24 LED, White-Light, 120°x 50° beam

Intelligent Emergency variant available, add -EMX25 to the above codes - Not available in LV or ELV variants
18-69V variants available, add -LV to the above codes
12V variants available, add -ELV to the above codes
Contact Raytec for T5 variants

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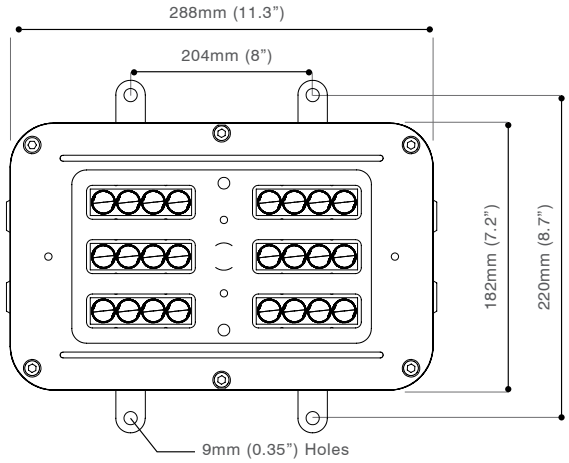
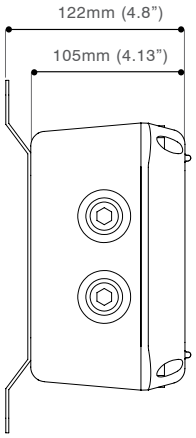
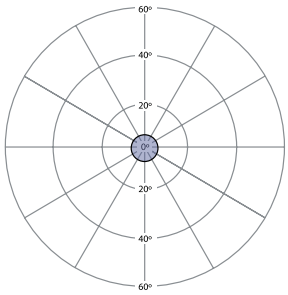
Product Dimensions



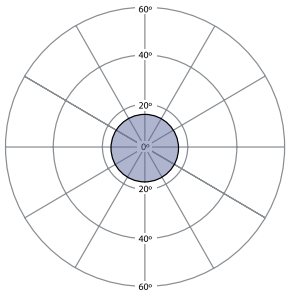


Beam patterns - Circular

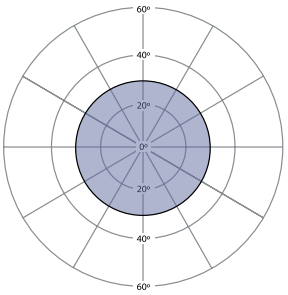
10° x 10°



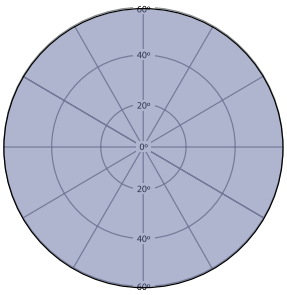
30° x 30°



50° x 50°

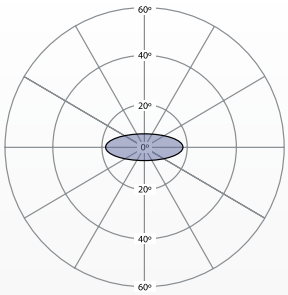


120° x 120°

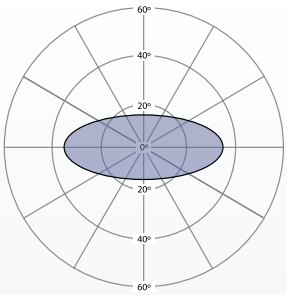


Beam patterns – Elliptical (VARIO)

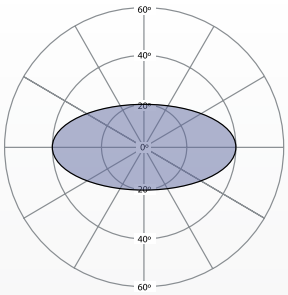
35° x 10°



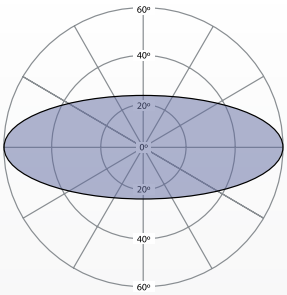
60° x 25°



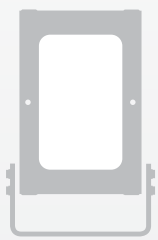
80° x 30°



120° x 50°



Products in the SPARTAN Family

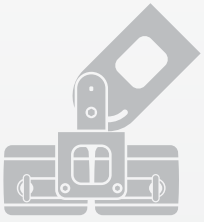


SPARTAN Flood

SPARTAN Linear

SPARTAN Bulkhead

SPARTAN Bay



SPARTAN Crane

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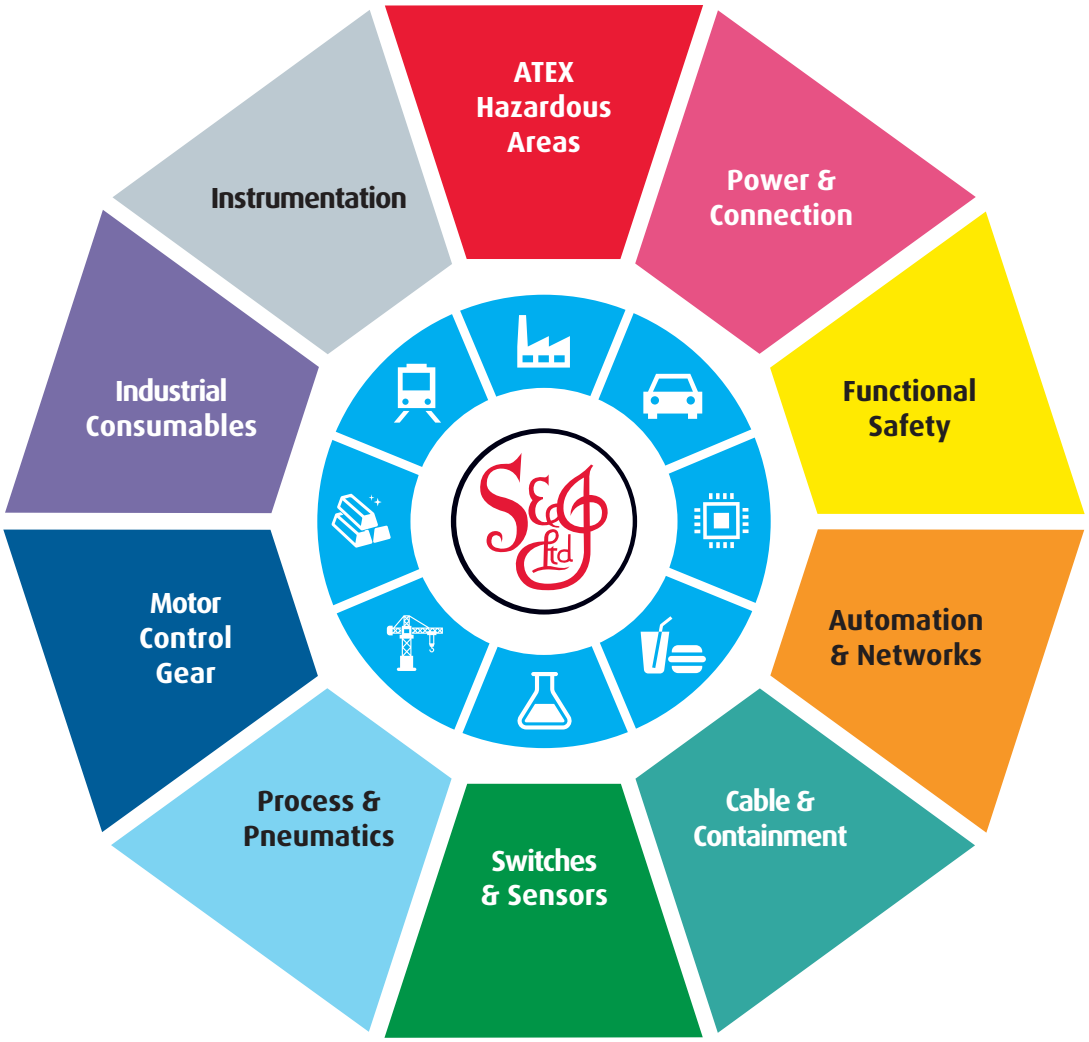

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