# smart vision lights PRODUCT DATA SHEET

SA30 Series SP

**SPOT LIGHT** Adjustable Prox



## product introduction

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The SA30 Series is the first series of spot lights featuring an adjustable length lens allowing its user to select the correct spot size needed for the specific application without having to adjust the position of the whole light. The SA30 Series of Spot Lights also offers a completely homogenous light pattern at any working distance for a very define and even projected spot. The versatility of the SA30 Series and its convenient mounting options make this light the ideal spotlight.



## product features



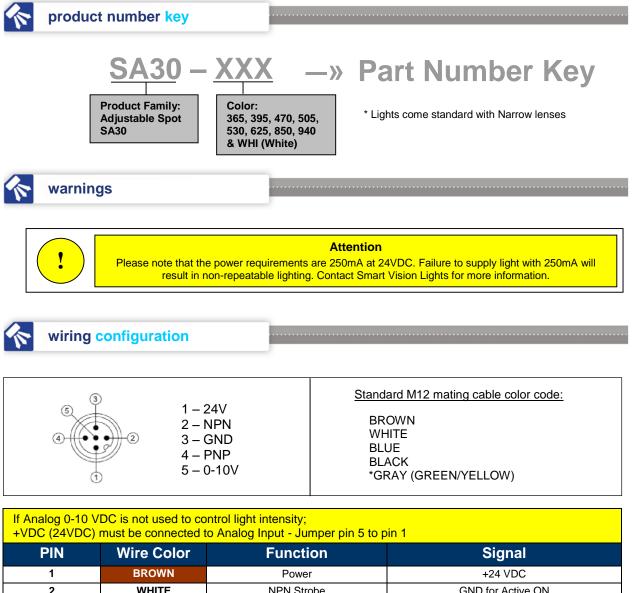
- Telescoping lens
- Compact 30mm diameter design
- Driver built in No External wiring to a driver
- Homogenous light pattern
- Continuous operation or Strobe mode
- Dimmable via built in potentiometer
- Analog intensity 0-10VDC signal
- One, 1mm<sup>2</sup> Die High Current LEDs



## product specifications

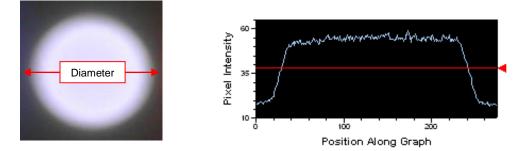
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Electrical Input	24 VDC +/- 5%		
Current	Max. 250mA		
Wattage	Max. 6W		
Strobe Input	PNP ► +3VDC or greater to activate. NPN ► GND (<1VDC) to activate		
PNP Line	3.7mA @ 3VDC   6.2mA @ 5VDC   12.6mA @ 10VDC   30.4mA @ 24 VDC		
NPN Line	22mA @ Common (0VDC)		
Yellow Indicator LED	LED Strobe Indicator ON = Light Active		
Green Indicator LED	ON = Power		
Continuous Mode	Light will be in continuous mode by leaving signal on strobe input active		
Potentiometer	10 turn pot – Intensity control of 10% to 100% Clockwise increases intensity		
Analog Intensity	The output is adjustable from 10 -100% of brightness by a 0 -10 VDC signal		
Connection	5 pin M12 connector		
Lifespan	100,000 hrs		
Ambient Temp.	-20° - 50° C (-4° - 122° F)		
IP Rating	IP50		
Weight	~145g		
Compliances	CE and RoHS		
IEC 62471 Rating	See page 3		



1	BROWN	Power	+24 VDC
2	WHITE	NPN Strobe	GND for Active ON
3	BLUE	Ground	GND
4	BLACK	PNP Strobe	4VDC to 30VDC for Active ON
5	GREEN	Analog Intensity Control	0-10 VDC

## optical performance



The SA30 offers a homogenous light pattern at any defined working distance. The Pixel Graph representation shows a steep drop off in intensity outside of the projected spot size with a very diffuse light pattern inside.

Average Intensity Rating	200mm diameter	2200 lux
Average intenenty rulling	700mm diameter	560 lux

\*Lux measurement taken at .5m distance.

Working Distance mm (inches)	Fully Retractable Spot Size Diameter mm (inches)	Fully Extended Spot Size Diameter mm (inches)
150mm (5.9")	210mm (8")	40mm (1.5")
300mm (11.8")	385mm (15")	60mm (2.5")
600mm (23.6")	760mm (30")	100mm (4")
1m (39.4")	1220mm (48")	155mm (6")

T	mounting	&	accessories
1	mounting	&	accessories



PB30-M1 Swivel Mount

PB30-M2 Slotted Block Mount

PB30-M3 Slotted Right Angle



PB30-M6 Bolt-on Block Mount



risk group

#### According to IEC 62471:2006. Full documentation upon request.

Notice

**Exempt Group**: No photo biological hazard to eyes or skin even for continuous, unrestricted use. Applicable for wavelengths: 625, 850, and 940.

#### Caution

Risk Group 1: Possibly hazardous optical radiation emitted from this product. Do not stare at operating lamp. May be harmful to eye. Safe for most applications except prolonged exposures. Applicable for wavelengths: 395, 470, 505, 530, and WHI.

#### Notice

Risk Group 1: UV emitted from this product. Minimize exposure to eyes and skin. Use appropriate shielding. Safe for most applications except prolonged exposures. Applicable for wavelengths: 395

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### Caution

Risk Group 2: UV emitted from this product. Eye or skin irritation may result from exposure. Use appropriate shielding. Does not pose optical hazard if aversion responses limit exposure. Applicable for wavelengths: 365