



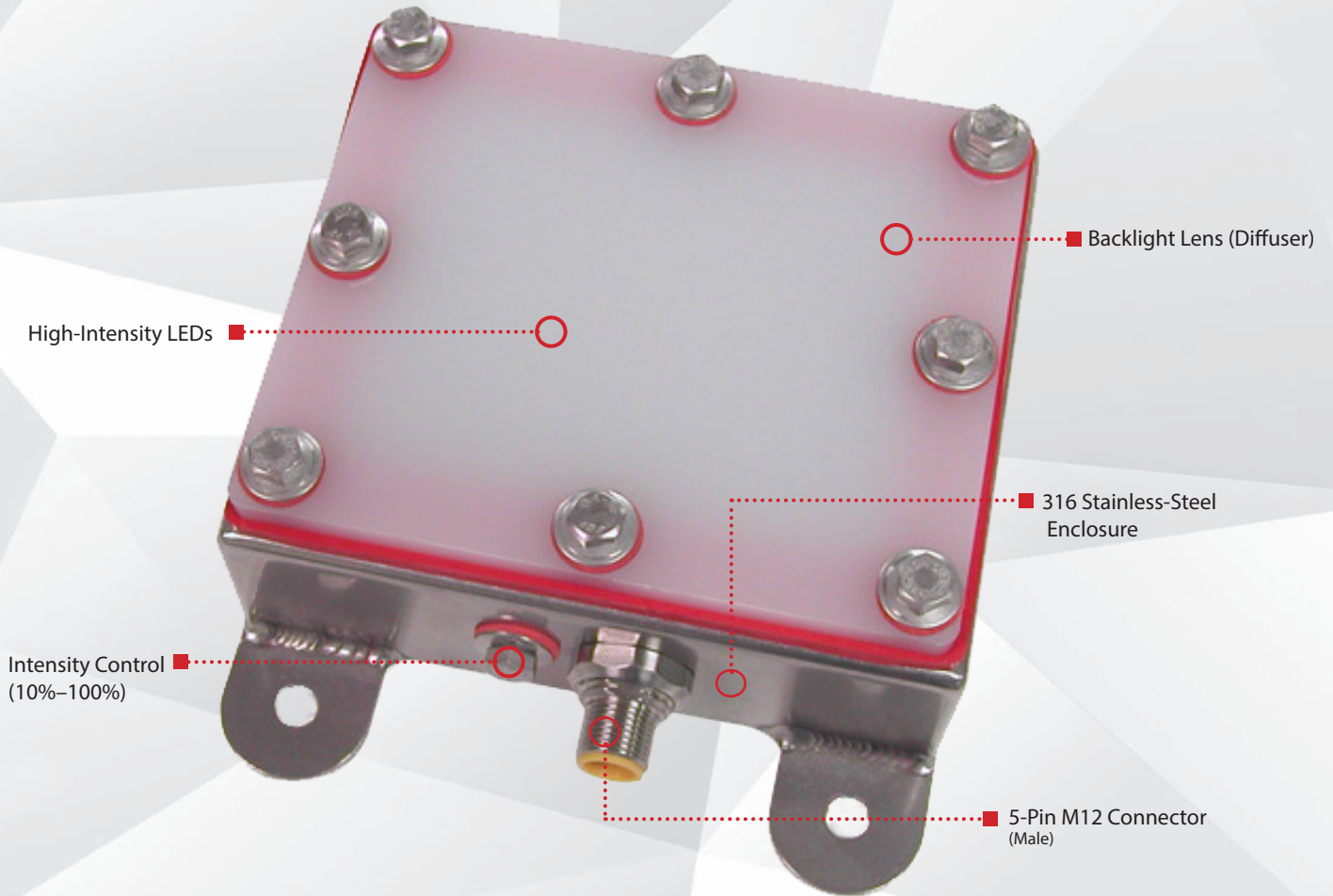
smart  
vision lights

# SWB75 Brick Light

## SPOT LIGHT

WASHDOWN | BACKLIGHT

P R O D U C T D A T A S H E E T



Warranty  
**10**  
YEAR

Compliant  
**IEC**  
62471

Compliant  
**CE**  
RoHS

Rated  
**IP**  
**68K**

Connector  
**5-PIN**  
**M12**

## PRODUCT HIGHLIGHTS

- ✓ IP68K standards
- ✓ Stainless-steel 316 housing
- ✓ Built-in driver; no external wiring needed
- ✓ PNP and NPN trigger input signal
- ✓ Perfect for food manufacturing and washdown environments





## PRODUCT INTRODUCTION

The SWB75 Brick Light spot light features a stainless-steel IP68K-rated enclosure specially designed for food industry and washdown environments where water and harsh detergents are present. The SWB75 features a diffused lens and is a viable option for silhouetting objects. NPN or PNP trigger signals can be used to control the pulse of the light. Intensity of the light can be controlled via 1–10VDC analog signal line or by adjusting the built-in manual potentiometer

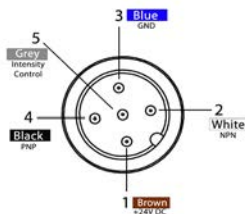


## PRODUCT SPECIFICATIONS

Electrical Input	24VDC +/-5%
Input Current	Max. 375 mA
Wattage	Max. 9.0 W
On/Off Input	PNP : +4VDC or greater to activate   NPN : GND (<1VDC) to activate
PNP Line	4 mA @ 4VDC   10 mA @ 12VDC   20 mA @ 24VDC
NPN Line	15 mA @ ground (0VDC)
Yellow Indicator LED	LED strobe indicator ON = light active
Green Indicator LED	ON = power
Continuous Mode	NPN can be tied to ground <b>OR</b> PNP can be tied to 24VDC (not both)
Potentiometer	270° turn pot — intensity control of 10%–100%. Turn clockwise to increase intensity.
Analog Intensity	The output is adjustable from 10%–100% of brightness by a 1–10VDC signal. (Jumping pin 5 to pin 1 will provide maximum intensity.)
Connection	5-pin M12 connector
Ambient Temperature	-18°–40°C (0°–104°F)
IP Rating	IP68K
Weight	~155 g
Compliances	CE, RoHS, IEC 62471
Warranty	10 years. For complete warranty information, visit <a href="http://smartvisionlights.com/warranty">smartvisionlights.com/warranty</a> .



## WIRING CONFIGURATION



Pin layout for light (male connector)

Pin	Function	Signal	Wire Color
1	Power In	+24VDC	BROWN
2	NPN	Sinking Signal	WHITE
3	GND	Ground	BLUE
4	PNP	Sourcing Signal	BLACK
5	Intensity Control	1–10VDC	GREY*

\* Some cables use green/yellow for pin 5

For maximum intensity, tie pin 5 to pin 1 at +24VDC.

For continuous mode: Tie PNP (pin 4) can be tied to +24VDC (pin 1) or tie NPN (pin 2) can be tied to Ground (pin 3).

### OPTIONAL

For maximum intensity, connect pin 5 to pin 1 at 24VDC.  
Potentiometer intensity needs to be set to 100%.

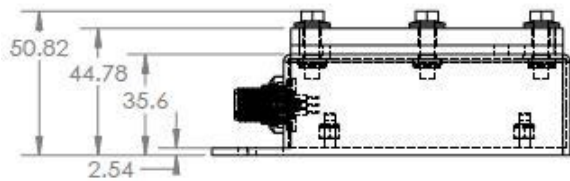
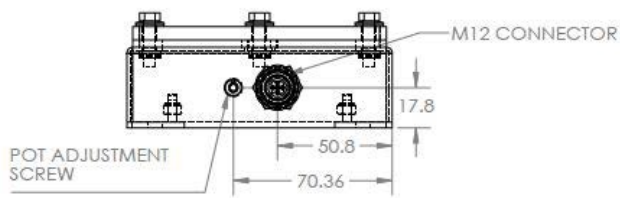
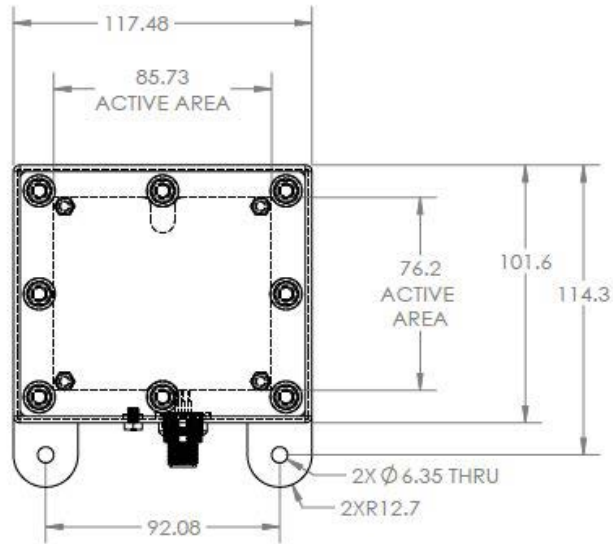


## RESOURCE CORNER

Additional resources, including CAD files, videos, and application examples, are available on our website.

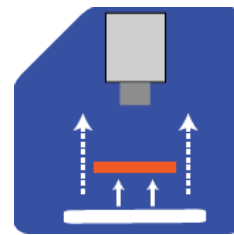
## PRODUCT DRAWING

CAD files available on our website.  
Dimensions are in mm.



## ILLUMINATION

SWB75 Series of Brick Lights works best for:



Backlight

## EYE SAFETY

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



### Notice

**Exempt Group:** No photobiological hazard to eyes or skin even for continuous, unrestricted use. Applicable for wavelengths 625, 850, 940, 1050, 1200, 1300, 1450, and 1550.

### Caution

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



## PART NUMBER

SWB75 –

COLOR:



### Part Number Example:

**SWB75-625** SWB75, 625 nm Red Wavelength, Standard (Narrow) Lens



Additional wavelengths options available upon request.

This light is available in our SWIR LEDs.



## ACCESSORIES

### Power Cables



Length	Part Number
5 m	5PM12-5
10 m	5PM12-10
15 m	5PM12-15

### Power Cables (Washdown)



Length	Part Number
15 m	W5PM12-15

Washdown cable has a 316 stainless-steel connector.



## GLOSSARY

This glossary covers all Smart Vision Lights product families; some content in this section may not apply to this specific light.

### TERMINOLOGY

**OverDrive™** Lights include an integrated high-pulse driver for complete LED light control.

**Continuous Operation** Lights stay on continuously.

**Multi-Drive™** Combines continuous operation and OverDrive™ strobe (high-pulse operation) mode into one easy-to-use light.

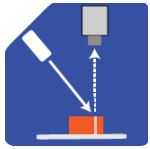
**Built-In Driver** The built-in driver allows full function without the need for an external controller.

**Camera to Light** Connect the light directly to the camera, without the need for additional controllers or equipment.

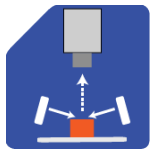
**Polarizers** Filters that reduce reflections on specular surfaces.

**Diffuser** Used to widen the angle of light emission, reduce reflections, and increase uniformity.

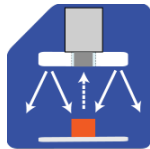
### TYPES OF ILLUMINATIONS



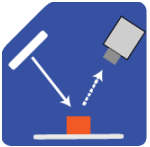
Projector



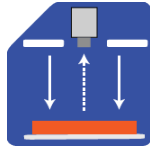
Dark Field



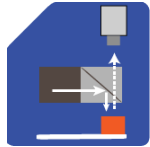
Radial



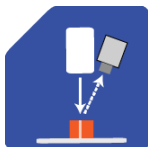
Bright Field



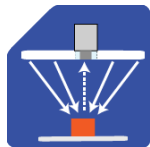
Direct



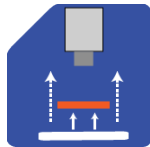
Axial



Line



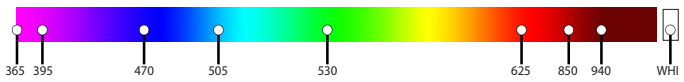
Diffuse Panel



Backlight

### COLOR/WAVELENGTHS LEGEND

Wavelength options range from 365 nm to 1550 nm.\*  
Additional wavelengths available for many light families.



\*See Part Number section for **this light's** available standard wavelengths.



Shortwave infrared LEDs are available in 1050 nm, 1200 nm, 1300 nm, 1450 nm, and 1550 nm.