



product introduction

The S75 Series of brick light features a Constant Current Driver with NPN or PNP signal options. Six high current LED's and a 75mm active light area provide not only an intense but diffuse light pattern at any given working distance. These series of lights also offers a manual potentiometer intensity control as well as a 0-10 VDC analog intensity control. Heat is dissipated through the aluminum back plate which allows the S75 Series to be run at a higher current and hence greater intensity.



product features



- Driver Built In – No External Wiring To A Driver
- PNP and NPN Strobe Input
- Continuous Operation or Strobe Mode
- Dimmable Via Built In Potentiometer
- Analog Intensity 0-10VDC Signal
- 2447 Acrylic Backlight Lens
- Six, 1mm² Die High Current LEDs



product specifications

Electrical Input	24 VDC +/- 5%
Current	Max. 800mA
Wattage	Max. 19.2W
Strobe Input	PNP ► +4VDC 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	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
Compliances	CE and RoHS
Weight	~155g
IEC 62471 Rating	See page 3



product number key

SB75 – XXX

Product Family:
Brick Light
SB75 - Backlight

Color:
470 – Blue
505 – Cyan
530 – Green
625 – Red
850/940 – IR
WHI - White

—» Part Number Key

CE and RoHS Compliant



warnings



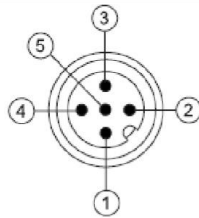
Attention

Please note that the power requirements are up to 800mA at 24VDC. Failure to supply light with up to 800mA can result in non-repeatable lighting. Contact Smart Vision Lights for more information.



wiring configuration

If Analog 0-10 VDC is not used to control light intensity;
+VDC (24VDC) must be connected to Analog Input - Jumper pin 5 to pin 1

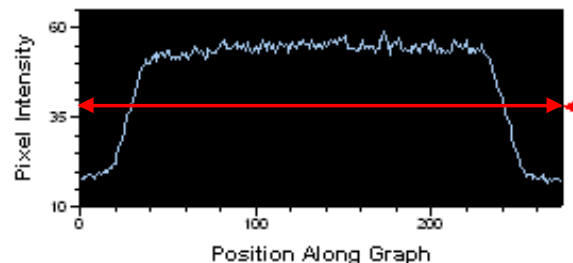
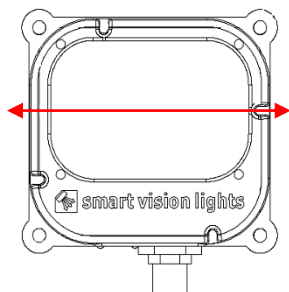


Pin	Function	Signal	Wire Color
1	Power In	+24VDC	BROWN
2	NPN	Sinking Signal	WHITE
3	GND	Ground	BLUE
4	PNP	Sourcing Signal	BLACK
5	Intensity Control	0-10VDC	GREY †

† Some cables use green with yellow stripe for 0-10V adjustment



optical performance



The SB75 offers a very diffuse light pattern at any defined working distance. The Pixel Graph representation shows a steep drop off in intensity outside of the active area with a very diffuse light pattern inside.

Average Intensity Rating

60,000 lux*

*Lux measurement taken at surface of SB75.



mounting & accessories



Power Cables

P/N: 5PM12-5 – 5m cable
P/N: 5PM12-10 – 10m cable
P/N: 5PM12-15 – 15m cable



Pan and Tilt Mount

Hardware included

P/N: PB75-M5



Extrusions

Hardware included



identification



5 Pin M12 Power Input

Power Indicator LED (GRN)

Signal LED (Yellow)



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: 470, 505, 530, and WHI.