


product introduction

The SW30 series features a 100% waterproof stainless steel enclosure specially designed for food industry and wash down environments where water and corrosive materials present. All circuitry is enclosed in an epoxy potted compound further protecting the light from dust, debris, and all other contaminants. The SW30 offers full intensity control through use of the 0-10 VDC intensity control or by manual use of the 10 turn pot. NPN and PNP signal options come standard. SW30 Series Prox Lights are IP68 rated and are available in multiple styles of lenses and diffuser materials.


product features


- IP68 Rated Stainless Steel Housing
- 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
- One, 1mm² Die High Current LEDs


product specifications

Electrical Input	24 VDC +/- 5%
Current	Max. 300mA
Wattage	Max. 7.5W
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
IP Rating	IP68
Weight	~185g
Compliances	CE, RoHS, FDA Complaint
IEC 62471 Rating	See page 4



product number key

SW30 – XXX – X* —» Part Number Key

Product Family:
Prox Washdown
SW30

Color:
470, 505, 530, 625,
850, 940 & WHI
(White)

Lenses:
N - Narrow
W - Wide

* Lights come standard with Narrow lenses



warnings

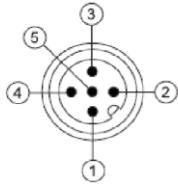


Attention

Please note that the power requirements are 300mA at 24VDC. Failure to supply light with 300mA will result in non-repeatable lighting. Contact Smart Vision Lights for more information.



wiring configuration



1 – 24V
2 – NPN
3 – GND
4 – PNP
5 – 0-10V

Standard M12 mating cable color code:

BROWN
WHITE
BLUE
BLACK
*GRAY (GREEN/YELLOW)

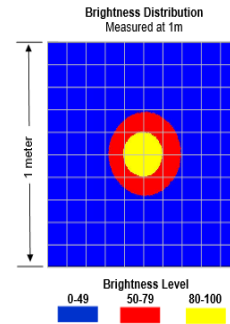
If Analog 0-10 VDC is not used to control light intensity;
+VDC (24VDC) must be connected to Analog Input - Jumper pin 5 to pin 1

PIN	Wire Color	Function	Signal
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



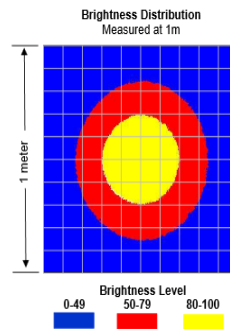
SW30-XXX-N

Working Distance mm (inches)	Pattern (80%-100% measured intensity) mm (Inches)
.5m (19.7")	80mm(~3") D
1m (39.4")	185mm(~7") D
Typical output performance	
Distance = .5 meter	Illumination (Lux) 4200
<i>Illumination measurement taken on White Lights – 6500K</i>	



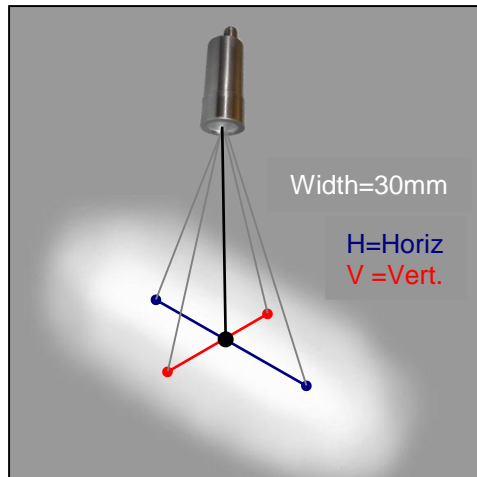
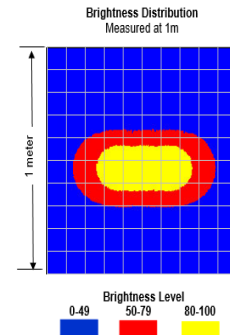
SW30-XXX-W

Working Distance mm (inches)	Pattern (80%-100% measured intensity) mm (Inches)
.5m (19.7")	205mm(~8") D
1m (39.4")	415mm(~16") D
Typical output performance	
Distance = .5 meter	Illumination (Lux) 1300
<i>Illumination measurement taken on White Lights – 6500K</i>	



SW30-XXX-L

Working Distance mm (inches)	Pattern (80%-100% measured intensity) mm (Inches)
.5m (19.7")	255mm(~10") H x 115mm(~4.5") V
1m (39.4")	460mm(~18") H x 250mm(~10") V
Typical output performance	
Distance = .5 meter	Illumination (Lux) 1900
<i>Illumination measurement taken on White Lights – 6500K</i>	





mounting & accessories



Block Mount
PB30-M6



Right Angle Bracket
PB30-M3



identification



Power Cable Input

Power Indicator LED (Green)

Signal Indicator LED (Yellow)

Manual Intensity Control



risk group

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

Notice

Exempt Group: No photobiological 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.