

ODSXW30 Prox Light SPOTLIGHT WASHDOWN | OVERDRIVET

PRODUCT DATA SHEET



PRODUCT HIGHLIGHTS

✓ OverDriveTM — Up to 2.5 times brighter than a standard SXW30 Prox Light

Compliant

Compliant

√ 5-pin M12 quick connect

Over Drive

- ✓ Built-in driver, no external wiring to driver needed
- ✓ PNP and NPN strobe input
- ✓ Washdown IP68 Rating.
- ✓ Standard optics provides tight focused light

Connector
5 PIN
M12





PRODUCT DESCRIPTION

The ODSXW30 Series of Prox Lights feature a single high current LED enclosed in a 30mm Washdown IP68 Barrel Style Housing. The ODSXW30 Series features an NPN and PNP strobe signal with a 1–10VDC analog intensity control signal for added versatility. The ODSXW30 Series also has multiple mounting options allowing for ease of install. Operation mode is strobe only with 5-6x the intensity of the standard SXW30.

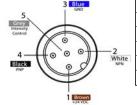


PRODUCT SPECIFICATIONS

Electrical Input	24VDC+/-5%	
Input Current	Max. 175 mA	
Wattage	Max. 6 W	
Strobe 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)	
Continuous Mode	NPN can be tied to ground OR PNP can be tied to 24VDC (not both)	
Red Indicator LED	LED Strobe Indicator ON = Light Active	
Green Indicator LED	ON = Power	
Analog Intensity	The output is adjustable from 10%–100% of brightness by a 1–10VDC	
	signal. (Jumpering pin 5 to pin 1 will provide maximum intensity).	
Connection	5-pin M12 connector	
Ambient Temperature	-18°-40° C (0°-104° F)	
IP Rating	IP68	
Weight	~266g	
Compliances	CE, RoHS, IEC 62471	



WIRING CONFIGURATION



Pins	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 1-10V adjustment

If Analog 1-10VDC is not used to control light intensity;

+VDC (24VDC) must be connected to Analog Input - Jumper pin 5 to pin 1

Pin layout for light (Male Connector)



RESOURCE CORNER

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

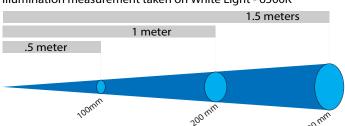




LIGHT PATTERNS

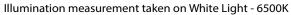
Smart Vision Lights recommends the ODSXW30 be used at a working distance between .5M to 4M.

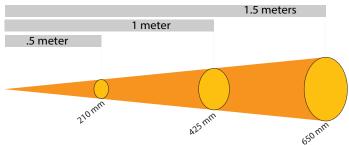
Illumination measurement taken on White Light - 6500K



| Distance = .5 meter | South Parties | Continue | Cont

Illumination measurement taken on White Lights - 6500K

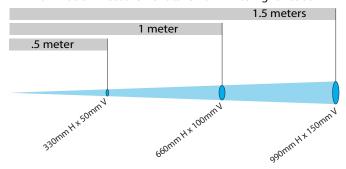




LIGHTING PATTERN FOR THE ODSXW30			
Working Distance mm (inches)	Pattern (80% - 100% measured intensity) mm (inches)		
.5m (19.7")	210mm (~6")		
1m (39.4")	425mm (~17")		
1.5m (59")	650mm (~22")		

Typical Output Preformance	Illumination (Lux)	
Distance = .5 meter	6,300	
Illumination measurement taken on White Lights - 6500K		

Illumination measurement taken on White Light - 6500K



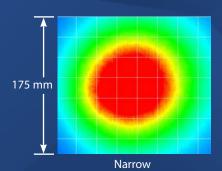
LIGHTING PATTERN FOR THE ODSXW30

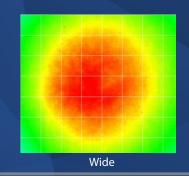
Working Distance mm (inches)	Pattern (80% - 100% measured intensity) mm (inches)
.5m (19.7")	330mm (~13") H x 50mm (~2") V
1m (39.4")	660mm (~26") H x 100mm (~4") V
1.5m (59")	990mm (~39") H x 150mm (~6") V

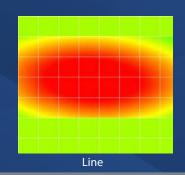
Typical Output Preformance	Illumination (Lux)	
Distance = .5 meter	10,000	
Illumination measurement taken on White Lights - 6500K		

The ODSXW30 Prox Light produces a uniform light pattern.

Working Distance = 500 mm Grid set to 25 mm x 25 mm



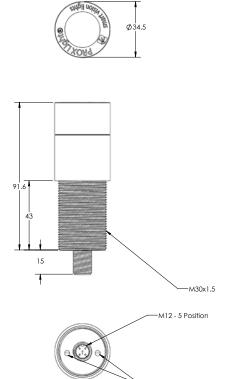








CAD files available on our website. Dimensions are in mm.





ODSXW30 series of Prox Lights works best for:





Bright Field Projector



EYE SAFETY

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.

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

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





PART NUMBER



Part Number Examples:

ODSXW30-625 ODSXW30, 625 nm Red Wavelength, Standard (Narrow) Lenses ODSXW30-WHI-L ODSXW30, White, Line Lenses



Additional wavelengths options available upon request



STANDARD LENS OPTICS

NARROW

Narrow lens are standard.

Standard lenses create a narrow beam of illumination. They can be used when long working distances are needed. Narrow are 10° angle lenses.

WIDE

Wide lenses create a large area of illumination. Wide lenses can be used when short working distances are needed. Wide lenses create a flood light effect. Wide are 25° angle cone lenses.

LINE

Line lenses create a thin narrow beam of illumination. Line lenses create a line of light when used on the L300 linear light. Line are 10° and 50° angle cone lenses.

* Additional lens options available upon request.

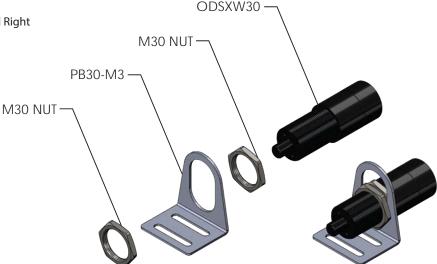


MOUNTING

Two M30 nuts for mounting are included with the light.

Example of the ODSXW30 shown using the Slotted Right Angle mount (**Part Number: PB30-M3**).

See accessories for additional mounting options.

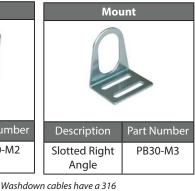




ACCESSORIES













Stainless Steel connector(s).



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 of an external controller.

Camera to Light Connecting 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.

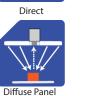
TYPES OF ILLUMINATIONS











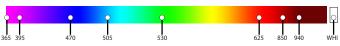






COLOR/WAVELENGTHS LEGEND

Wavelengths 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.