

## product introduction

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 0-10 VDC 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 features



- 30mm Barrel Style Housing
- Driver built in – No External Wiring To A Driver
- PNP and NPN Strobe input
- OverDrive - Strobe Mode Operation
- 5-6x Intensity of SXW30 Series
- Analog Intensity 0-10VDC Signal
- Washdown IP68 Rating

## product specifications

|                            |  |
|----------------------------|--|
| <b>Electrical Input</b>    | 24 VDC +/- 5%  |
| <b>Current</b>             | Max. 500mA draw during strobe – Max. Average 50mA                          |
| <b>Wattage</b>             | Max. 12W draw during strobe – Max. Average 1.2W                            |
| <b>Strobe Input</b>        | PNP ▶ +4VDC or greater to activate.   NPN ▶ GND (<1VDC) to activate        |
| <b>PNP Line</b>            | 3.7mA @ 3VDC   6.2mA @ 5VDC   12.6mA @ 10VDC   30.4mA @ 24 VDC             |
| <b>NPN Line</b>            | 22mA @ Common (0VDC)   |
| <b>Duty Cycle</b>          | Maximum 10%  |
| <b>Strobe/Pulse Time</b>   | Max. 5000 SPS (Strobes Per Second)   Max. Single Pulse – 125mS             |
| <b>Red Indicator LED</b>   | ON = LED Rest (LED inactive) OFF = LED/Light Ready                         |
| <b>Green Indicator LED</b> | ON = Power   |
| <b>Analog Intensity</b>    | The output is adjustable from 10 -100% of brightness by a 0 -10 VDC signal |
| <b>Connection</b>          | 5 pin M12 connector  |
| <b>Ambient Temperature</b> | -20° - 50° C (-4° - 122° F)  |
| <b>Lifespan</b>            | 100,000 hrs  |
| <b>IP Rating</b>           | IP68   |
| <b>Compliances</b>         | CE and RoHS  |
| <b>Weight</b>              | ~266g  |
| <b>IEC 62471 Rating</b>    | See page 4   |



## product number key

# ODSXW30 – XXX – X\* → Part Number Key

**Product Family:**  
Prox Light  
ODSWX30

**Color:**  
365, 395 – UV  
470 – Blue  
505 – Cyan  
530 – Green  
625 – Red  
850, 940 – IR  
WHI - White

**Lenses:**  
W – Wide  
L - Line

\* Lights come standard with narrow lenses  
CE and RoHS Compliant



## warnings



### Attention

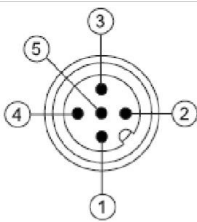
Please note that the power requirements are 500mA at 24VDC. Failure to supply light with 500mA will result in non-repeatable lighting. Contact Smart Vision Lights for more information.



## 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



## mounting & accessories



**Power Cables**  
5m, 10m, 15m



**PB30-M2**  
Slotted Block Mount



**PB30-M6**  
Bolt-on Block Mount

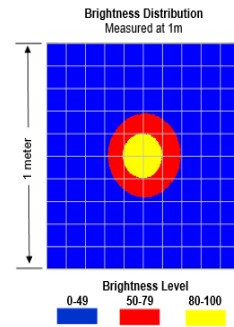


**Diffuser Kits**  
Available



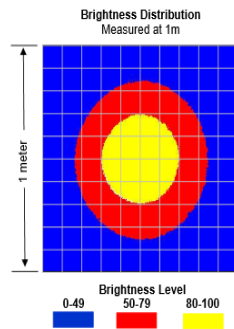
### ODSXW30-XXX

| Working Distance<br>mm (inches)                               | Pattern (80%-100% measured intensity)<br>mm (Inches) |
|---|--|
| .5m (19.7")   | 80mm(~3") D  |
| 1m (39.4")  | 185mm(~7") D   |
| Typical output performance                                    |  |
| Distance = .5 meter   | Illumination (Lux)<br>21000                          |
| <i>Illumination measurement taken on White Lights – 6500K</i> |  |



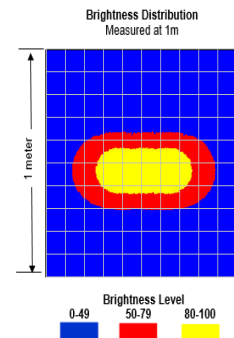
### ODSXW30-XXX-W

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



### ODSXW30-XXX-L

| Working Distance<br>mm (inches)                               | Pattern (80%-100% measured intensity)<br>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)<br>9500                           |
| <i>Illumination measurement taken on White Lights – 6500K</i> |  |





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

**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