## smart vision lights <br> ODSX30 (N4) PROX SERIES <br> LONG DISTANCE OVERDRIVETM

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


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PRODUCT HIGHLIGHTS
\ OverDrive}\mp@subsup{}{}{\mathrm{ TM }}\mathrm{ - Up to 2.5 times brighter than a standard SX30 (N4) Prox Light
\checkmark ~ N a r r o w , ~ 4 ~ d e g r e e ~ l e n s ~ a l l o w s ~ f o r ~ a ~ l o n g , ~ t i g h t l y ~ f o c u s e d ~ b e a m ~ o f ~ l i g h t
`Built-in driver, no external wiring needed
\checkmark PNP and NPN strobe input
5-pin M12 quick connect
```


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## PRODUCT SPECIFICATIONS

| Electrical Input |  |
| :--- | :--- |
| Input Current |  |
| Wattage |  |
| Strobe Input |  |
| PNP Line |  |
| NPN Line |  |
| Duty Cycle |  |
| Strobe/Pulse Time |  |
| Red Indicator LED |  |
| Green Indicator LED |  |
| Analog Intensity |  |
| Connection |  |
| Ambient Temperature |  |
| IP Rating |  |
| Weight |  |


| 24VDC +/-5\% |  |
| :---: | :---: |
| Max. . 5 A |  |
| Max. 6W |  |
| PNP > +4VDC or greater to activate | NPN > GND (<1VDC) to activate |
| 4 mA @ 4VDC ${ }^{\text {d }} 10 \mathrm{~mA}$ @ 12VDC | 20 mA @ 24VDC |
| 15 mA @ Ground (0VDC) |  |
| Max. 10\% |  |
| Max. 5000 SPS (Strobes Per Second) \| Max. Single Pulse = 125 ms |  |
| LED Strobe Indicator $\mathrm{ON}=$ Light Active |  |
| ON = Power |  |
| The output is adjustable from $10 \%-100 \%$ of brightness by a $1-10 \mathrm{VDC}$ signal. (Jumpering pin 5 to pin 1 will provide maximum intensity). |  |
| 5-pin M12 connector |  |
| $-18^{\circ}-40^{\circ} \mathrm{C}\left(0^{\circ}-104^{\circ} \mathrm{F}\right)$ |  |
| IP50 |  |
| $\sim 320 \mathrm{~g}$ |  |

## WIRING CONFIGURATION



## PRODUCT DRAWING

_STATIIS INDICATORS

## RESOURCE CORNER

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

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## ILLUMINATION

ODSX30 (N4) series of Prox Lights works best for:


Bright Field


Projector

## LIGHT PATTERNS

## DUTY CYCLE (OVERDRIVEM MODE ONLY)

The Duty Cycle (D) is related to the Strobe Time (ST) and Rest Time (RT).


## PART NUMBER



Additional wavelengths options available upon request.
UV wavelenghts not available.

## Part Number Examples:

ODSX30-625-N4 ODSX30, 625 Red Wavelength Narrow 4 Degree Lens
$\qquad$ $\longrightarrow$

SHORT WAVE INFRARED
This light is available in our SWIR LEDs ( $1050 \mathrm{~nm}, 1200 \mathrm{~nm}, 1300 \mathrm{~nm}, 1450 \mathrm{~nm}, 1550 \mathrm{~nm}$ )

## MOUNTING

Two M30 nuts for mounting are included with the light.
Example of the ODSX30 (N4) shown using the Slotted Right Angle mount (Part Number: PB30-M3).

See accessories for additional mounting options.


## 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.

## ACCESSORIES



## GLOSSARY

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

## TERMINOLOGY

OverDrive ${ }^{T M}$ Lights include an integrated high-pulse driver for complete LED light control. OverDrive ${ }^{T M}$ light part numbers start with OD.
Continuous Operation Lights stays on continuously.
Multi-Drive ${ }^{T M}$ Combines continuous operation and OverDrive ${ }^{T M}$ 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.
Diffusers Used to widen the angle of light emission, reduce reflections and increase uniformity.

## TYPES OF ILLUMINATION



Projector


Bright Field


Line


Dark Field


Diffuse Panel


Radial


Backlight

## 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 $1050 \mathrm{~nm}, 1200 \mathrm{~nm}$, $1300 \mathrm{~nm}, 1450 \mathrm{~nm}$, and 1550 nm .

