

PRODUCT DATA SHEET

ODS75 Series

BRICK LIGHT

OverDrive



product introduction

The ODS75 Series of brick light features an Overdrive driver with NPN or PNP signal options. Six high current LED's pulse at 3-4 times the brightness of a standard S75 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 ODS75 Series to be run at a higher current and hence greater intensity.



product features

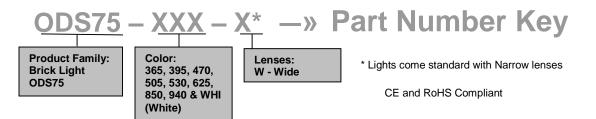


- 4-5 times brighter than standard high current LEDs
- Driver built in No External wiring to a driver
- PNP and NPN Strobe input
- Overdrive/Strobe only
- Dimmable via built in potentiometer
- Analog intensity 0-10VDC signal



product specifications

Electrical Input	24 VDC +/- 5%		
Current	Max. 4A draw during strobe – Max Average 400mA		
Wattage	Max. 9.6W strobe		
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)		
Duty Cycle	Max. 10%		
Strobe/Pulse Time	Max. Single Pulse = 125ms		
Red Indicator LED	ON = LED Rest (LED inactive) OFF = LED/Light Ready		
Green Indicator LED	ON = Power		
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		
Ambient Temp.	-20° - 50° C (-4° - 122° F)		
IP Rating	IP50		
Weight	~155g		
Compliances	CE and RoHS		
IEC 62471 Rating	See page 3		





warnings

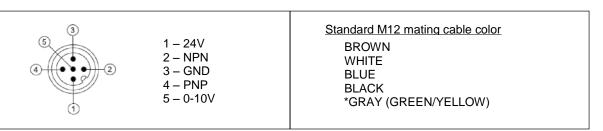


Attention

Please note that the power requirements are up to 4A at 24VDC. Failure to supply light with up to 4A 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	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

ODS75-XXX

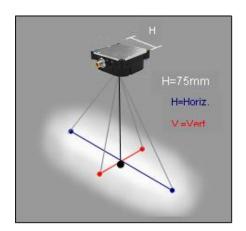
Working Distance	Pattern (80%-100% measured intensity)			
mm (inches)	mm (Inches)			
.5m (19.7")	100mm (~4") D			
1m (39.4")	200mm(~8") D			
1.5m (59")	300mm(~12") D			
Typical outp	Illumination (Lux)			
Distance	45000			
Illumination measurement taken on White Lights - 6500K				



ODS75-XXX-W

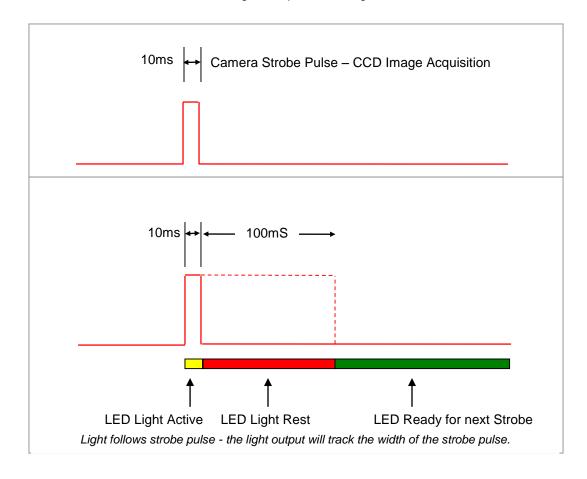
Working Distance	Pattern (80%-100% measured intensity)			
mm (inches)	mm (Inches)			
.5m (19.7")	210mm(~6") D			
1m (39.4")	425mm(~17") D			
1.5m (59")	650mm(~22") D			
Typical outp	Illumination (Lux)			
Distance	31500			
Illumination measurement taken on White Lights – 6500K				





Duty Cycle on Performance of Light

All lights are pulse following



Duty Cycle (D) is defined as the ratio between Strobe Time and Rest Time

Maximum Duty Cycle for OD Light is 10% = .1

Calculating Rest Time - RT

$$RT = \frac{ST}{D}$$

$$ST \text{ is the Strobe Time}$$

$$RT \text{ is the Rest Time}$$

$$D \text{ is Duty Cycle}$$

Example: Camera exposure of 10mS where Strobe Time is 10mS.

$$RT = \frac{10ms}{.1} = 100mS$$

Rest Time is 100ms for 10ms Strobe Time



mounting & accessories



5m, 10m, or 15m Power Cable Available





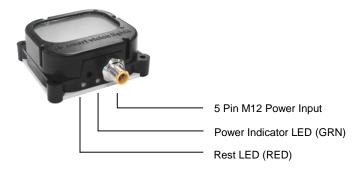
Pan and Tilt Mount Hardware included



ExtrusionsHardware included



identification





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: 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