



## product introduction

The TL300 Series was designed as pharmaceutical blister pack inspection light with a built in individual On-Axis and Off-Axis intensity control lighting system. Its exceptional uniformity and an intense output design makes the TL300 Series a perfect lighting solution for blister pack inspection, solder joint inspection, or any inspection of products with a highly reflective finish.



## product features



- 5 Pin M12 Quick Disconnect
- Driver built in – No External wiring to a driver
- Simple +24VDC and GND hook-up
- Continuous operation or Strobe mode
- Individual intensity control of each axis
- Analog intensity 0-10VDC signal
- Custom lengths and additional colors also available



## product specifications

<b>Electrical Input</b>	24 VDC +/- 5%
<b>Current</b>	On Axis – Max. 1.1A
	Off Axis – Max. 1.75A
<b>Wattage</b>	Max. 66W
<b>Continuous Mode</b>	Light will be in continuous mode by leaving +24V and GND applied
<b>Potentiometer</b>	Dual 3/4 turn potentiometer controlled for On Axis and Off Axis lighting
<b>Analog Intensity</b>	The output is adjustable from 10 -100% of brightness
<b>Connection</b>	5 pin M12 connector
<b>Lifespan</b>	100,000 hrs
<b>Ambient Temp.</b>	-20° - 50° C (-4° - 122° F)
<b>IP Rating</b>	IP50
<b>Compliances</b>	CE and RoHS
<b>IEC 62471 Rating</b>	See page 3



## product number key

# TL305 – XXX —» Part Number Key

**Product Family:**  
Blister Pack Light  
TL305

**Color:**  
WHI (White)

CE and RoHS Compliant



## warnings

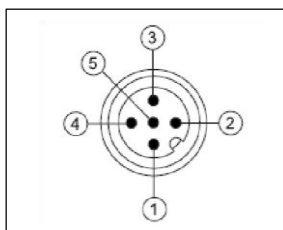


### Attention

Please note that the power requirements are 2.85A at 24VDC. Failure to supply light with 2.85A can result in non-repeatable lighting. Contact Smart Vision Lights for more information.



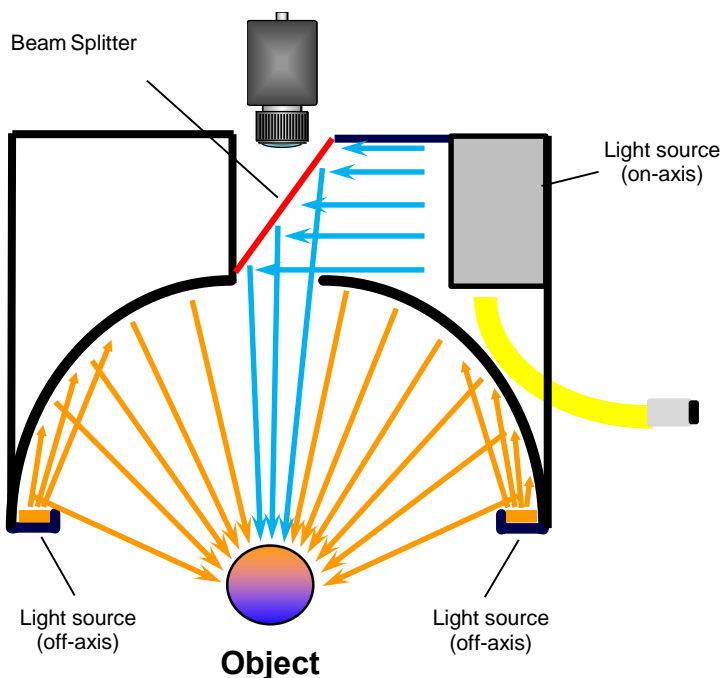
## wiring configuration



Function	Signal	Wire Color
1 – 24VDC	+24VDC	BROWN
2 – NPN	NOT USED	WHITE
3 – GND	Ground	BLUE
4 – PNP	NOT USED	BLACK
5 – GREY (GREEN/YELLOW)	NOT USED	NOT USED



## light output analysis



### Intensity measurement

All measurements taken in lux



Working Distance mm (inches)	Intensity in lux
25mm (.984")	61600 lux
50mm (1.96")	40400 lux
100mm (3.93")	20200 lux



## 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: WHI