


**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. The TL305 requires the use of a line scan camera.


**product features**


- 5 Pin M12 Quick Disconnect
- Driver Built In – No External Wiring To A Driver
- Simple +24VDC and GND Hook-up
- Individual Intensity Control Of Each Axis
- Custom Lengths And Additional Colors Also Available
- Line Scan Camera Required
- Remote Identity Control Included


**product specifications**

<b>Electrical Input</b>	24 VDC +/- 5%
<b>Current</b>	Max. 2.5A
<b>Wattage</b>	Max. 66W
<b>Strobe Input</b>	PNP ► +3VDC or greater to activate.
<b>PNP Line</b>	3.7mA @ 3VDC   6.2mA @ 5VDC   12.6mA @ 10VDC   30.4mA @ 24 VDC
<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

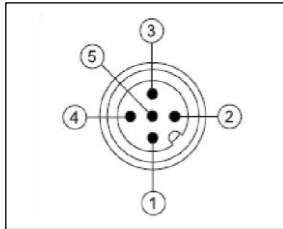


### Attention

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.



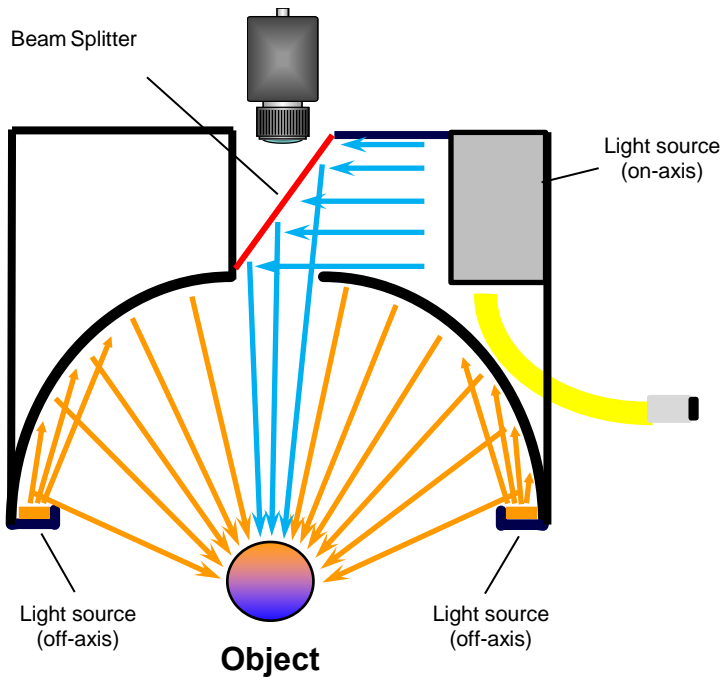
## wiring configuration



Function	Signal	Wire Color
1 – 24VDC	+24VDC	BROWN
2 – NPN	NOT USED	WHITE
3 – GND	Ground	BLUE
4 – PNP	Sourcing Signal	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")	61,600 lux
50mm (1.96")	40,400 lux
100mm (3.93")	20,200 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