PRODUCT DATA SHEET

TL300 Series | BLISTER LIGHT | Dual-Axis Blister Pack Light

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

Electrical Input	24VDC +/- 5%
Current	Max. 2.5A
Wattage	Max. 66W
Strobe Input	PNP ► +3VDC or greater to activate.
PNP Line	3.7mA @ 3VDC | 6.2mA @ 5VDC | 12.6mA @ 10VDC | 30.4mA @ 24VDC
Continuous Mode	Light will be in continuous mode by leaving +24V and GND applied
Potentiometer	Dual 3/4 turn potentiometer controlled for On Axis and Off Axis lighting
Analog Intensity	The output is adjustable from 10%-100% of brightness
Connection	5 pin M12 connector
Lifespan	100,000 hrs
Ambient Temp.	-20º - 50º C (-4º - 122º F)
IP Rating	IP50
Compliances	CE and RoHS
IEC 62471 Rating	See page 3

product number key

TL305 – XXX —» Part Number Key

TL305	XXX
Product Family: Blister Pack Light TL305	**Color: WHI (White)**

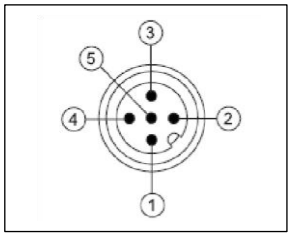
CE and RoHS Compliant

warnings

Attention

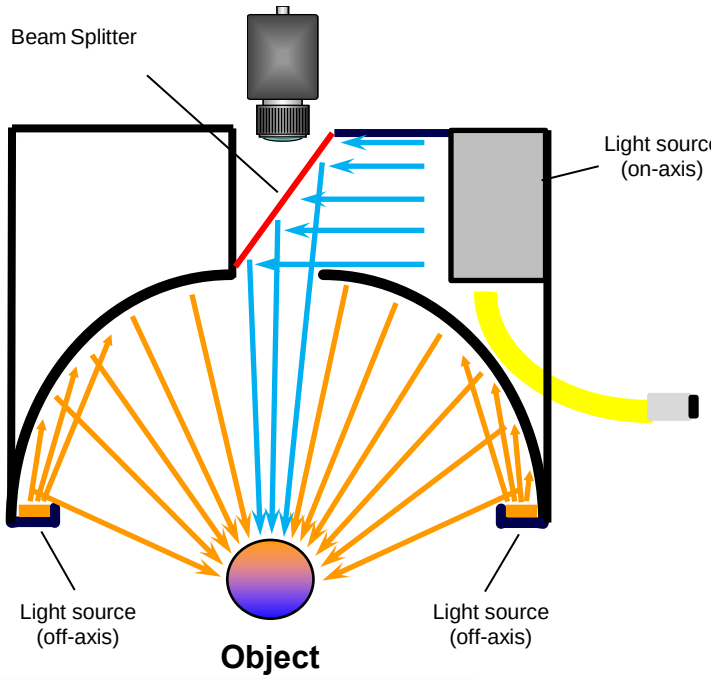
Please note that the power requirements are 2.85A at 24VDC. Failure to supply light with 2.85A can result in non-repeatable lighting. Contact Smart Vision Lights for more information.

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