# **PRODUCT DATA SHEET**

## LE Series **LINEAR LIGHT** Multi-Drive Operation

## product introduction

smart vision lights

The Multi-Drive controller combines the Constant ON operation and the high pulse operation into one easy to use product. The Multi-Drive controller allows the user to run the product in Constant ON operation or pulse/strobe the light at the maximum allowed intensity by the LED manufacturer by simply setting the product parameters. The built-in Multi-Driver also protects the LEDs from premature degradation and failure caused by excessive heat by regulating the current delivered to the LEDs and limiting the duty cycle of the light. NPN or PNP signal input options, a 0-10V analog intensity control, and an industry standard M12 power cable allow for versatility and eases installation time.



#### product features



- Continuous Operation or OverDrive
- Sealed to IP65 standards
- Driver Built In No External Wiring To A Driver
- NPN and PNP Signal Input Options
- Industry Standard 5-Pin M12 connector

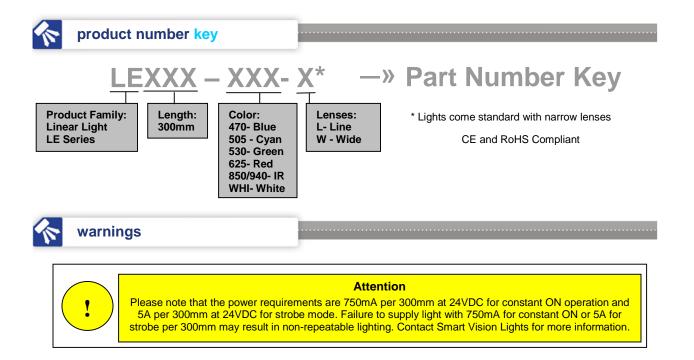
# Constant ON product specs

Electrical Input	24 VDC +/- 5%		
Current	750mA per 300mm (12")		
Wattage	18W per 300mm (12")		
ON/OFF Input	PNP ► +4VDC or greater to activate   NPN ► GND (<1VDC) to activate   5µS LED activation time		
PNP Line	3.7mA @ 3VDC   6.2mA @ 5VDC   12.6mA @ 10VDC   30.4mA @ 24 VDC		
NPN Line	22mA @ Common (0VDC)		
Continuous Mode	Light will be in continuous mode by leaving signal on NPN/PNP input active		
Connection	5 pin M12 connector		
Ambient Temperature	-40° - 50° C (-40° - 122° F)		
IP Rating	IP65		
IEC 62471 Rating	See page 4 for details		

# over DRIVE product specs

Electrical Input	24 VDC +/- 5%		
Current	5A during strobe per 300mm   500mA Max. Avg. per 300mm		
Wattage	120W during strobe per 300mm 12W Max. Avg. per 300mm		
Strobe Input	PNP ► +4VDC or greater to activate   NPN ► GND (<1VDC) to activate   5µS LED activation time		
PNP Line	3.7mA @ 3VDC   6.2mA @ 5VDC   12.6mA @ 10VDC   30.4mA @ 24 VDC		
NPN Line	22mA @ Common (0VDC)		
OverDrive Mode	Connect Pin 5 to GND (more info. in wiring configuration)		
Duty Cycle	Max.10%		
Strobe Duration	Max. 125mS		
Connection	5 pin M12 connector		
Ambient Temperature	-40° - 50° C (-40° - 122° F)		
IP Rating	IP65		
IEC 62471 Rating	See page 4 for details		

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wiring configuration

#### Wiring configuration for **CONSTANT ON** operation

3	Pin	Function	Signal	Wire Color
5	1	Power In	+24VDC	BROWN
	2	NPN	Sinking Signal	WHITE
	3	GND	Ground	BLUE
	4	PNP	Sourcing Signal	BLACK
	5	Intensity Control	1-10VDC	GREY

\* Some cables use green with yellow stripe for 1-10V adjustment.

#### Wiring configuration for **OverDrive** operation

3	Pin	Function	Signal	Wire Color
(5)	1	Power In	+24VDC	BROWN
	2	NPN	Sinking Signal	WHITE
	3	GND	Ground	BLUE
	4	PNP	Sourcing Signal	BLACK
	5	OverDrive Signal	Ground	GREY

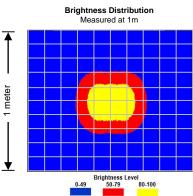
\*Analog intensity control is disabled in OverDrive Mode. Light operates at maximum pulse intensity.



optical performance

LE	E30	0-	X	ХΧ

Working Distance	Pattern (80%-100% measured intensity)		
mm (inches)	mm (Inches)		
.5m (19.7")	210mm(~8") H x 100mm(~4") V		
1m (~59")	270mm(~10.6") H x 255mm(~10") V		
Typical output performance Illumination (Lux)			on (Lux)
Constant ON OverDr			OverDrive
Distar	nce = .5 meter	8800 lux	44000 lux
Illumination measurement taken on White Lights – 6500K			



**Brightness Distribution** 

Measured at 1m

#### LE300-XXX-W

Working Distance	Pattern (80%-100% measured intensity)			
mm (inches)	mm (Inches)			
.5m (19.7")	220mm(~9") H x 160mm(~6") V			
1m (39.4")	460mm(~18") H x 420mm(~16.5") V			
1.5m (59")	570mm(~22") H x 550mm(~22") V			
Typical ou	Typical output performance Illumination (Lux)			
		Constant ON	OverDrive	
Distance = .5 meter		5200 lux	26000 lux	
Illumination measurement taken on White Lights – 6500K				

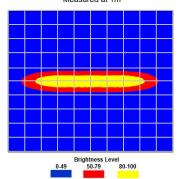
#### LE300-XXX-L

Working Distance	Pattern (80%-100% measured intensity)			
mm (inches)	mm (Inches)			
.5m (19.7")	330mm(~13") H x 50mm(~2") V			
1m (39.4")	660mm(~26") H x 100mm(~4") V			
1.5m (59")	990mm(~39") H x 150mm(6") V			
Typical ou	utput performance	Illuminati	on (Lux)	
		Constant ON	OverDrive	
Distance = .5 meter		6800 lux	34000 lux	
Illumination measurement taken on White Lights – 6500K				

Brightness Distribution Measured at 1m

0-49

Brightness Level 50-79 80-100



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## mounting options

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T-slot channel on the back for mounting



#### 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.