![SPECTRUM ILLUMINATION logo]

XL300 and XL2150 Light
XL Series with Internal Driver

ELECTRICAL:

Input Voltage: 23.5 to 28.0VDC
Input Current: 2.1A typical (10A max for burst) @24VDC
Note: Power supply must be capable of 10A per light for burst feature to work correctly.
Strobe Input Impedance: 10KΩ – PNP typical, 9.1KΩ – NPN typical
Strobe Timing: <15 microseconds from strobe to LED on
0-10V Input Impedance: 10KΩ typical
0-10V Input Control: 0V = 100%, 10V = <5% LED current. (Can be left disconnected for 100% LED current)
Variable Intensity: Adjustable via trim potentiometer from <5% (CCW) to 100% (CW).
Over-temperature LED: 70 ± 5°C strobe disable / "Error" LED on; 5°C hyst. for strobe enable / "Error" LED off
Wiring:

Pin #	Function
1	+23.5 to +28.0VDC
2	0VDC (DC GND)
3	PNP Strobe Input: < 1 VDC for "OFF", >3 ≤30 VDC for "ON"
4	NPN Strobe Input: GND for "ON", Open or >Vin-1V for "OFF"
5	0-10VDC analog intensity control – 0V = 100%, 10V = <5%
6	Over-Temp Error Output

1 2 3 4 5 6

ENVIRONMENTAL:

Operating Temperature: 0 to 50°C
Relative Humidity: 5 to 85% non-condensing

MECHANICAL:

Lighted Area: 300mm (XL300) / 150mm x 60mm (XL2150)
Connector: Phoenix Contact, 12A, 6 pin
Weight: 17 oz (470g) (XL300) / 12 oz (340g) (XL2150)

ILLUMINATION:

Light Source: LED – available in White
Quantity HB LED's: 10
LED Lens:

Option	Result
/16 Narrow (STD)	18° FWHM
/23 Medium	23° FWHM
/39 Wide	30° FWHM

LED Life: up to 100,000 hours*.
*Contact us for LED life information

FEATURES:

- Built-in Driver
- Aluminum Single Interface Housing
- Auto Burst – LED high current for 500µs ±10% (burst pulse width repeatability ±1% same light), then drops to standard current
- Auto Burst Disable Switch
- 0-10VDC Intensity Control

- Potentiometer Intensity Control
- PWM Dimming Capable (with Auto Burst disabled)
- Internal Thermal Protection
- Robot Friendly Weight:
  XL300 - 17 oz (470g)
  XL2150 - 12 oz (340g)

PART NUMBER DESIGNATION: XL300–XXX / XL2150-XXX

XXX = Light Color – WHI, WWH and NWH

Color	Dash #	Correlated Color Temperature (CCT) / λ Peak	Typ Color Rendering Index (CRI)	Standard output per LED (min)	Burst output per LED (min)
Pure White	-WHI	5000 - 7000K	65	559 lm	1314 lm
Neutral White	-NWH	3700 - 5000K	75	508 lm	1194 lm
Warm White	-WWH	2600 - 3700K	80	457 lm	1074 lm