

# XS40 LIGHT

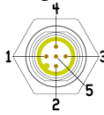
## XS Series with Internal Driver

**ELECTRICAL:**

Input Voltage: 12 to 26.4VDC  
 Input Current: 260mA typical (1.2A max for burst) @24VDC  
 460mA typical (2.5A max for burst) @12VDC  
*Note: Power supply must be capable of 1.2A per light for burst feature to work correctly with supplied cable.*  
 Strobe Input Impedance: 10KΩ – PNP typical, 9.1KΩ – NPN typical  
 Strobe Timing: <5 microseconds from strobe to LED on  
 0-10V Input Impedance: 15KΩ typical  
 0-10V Input Control: 0V = 100%, 10V = 0% LED current. (Can be left disconnected for 100% LED current)  
 Variable Intensity: Adjustable via trim potentiometer from 0% (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 #	Wire Color	Function
1	Brown	+12 to +26.4VDC
2	White	NPN STROBE INPUT: GND for “ON”, Open or >Vin-1V for “OFF”
3	Blue	0VDC (DC GND)
4	Black	PNP STROBE INPUT: < 1 VDC for “OFF”, >3 ≤30 VDC for “ON”
5	Grey	0-10VDC analog intensity control – 0V = 100%, 10V = 0%



**ENVIRONMENTAL:**

Operating Temperature: 0 to 40°C  
 Relative Humidity: 5 to 85% non-condensing

**MECHANICAL:**

Lighted Area: 40mm  
 Connector: M12 - 5 pin  
 Weight: 3.88 oz (110g)

**ILLUMINATION:**

Light Source: LED – available in White and IR  
 Quantity HB LED's: 1  
 LED Lens: White IR  
 23° FWHM Standard 16° FWHM Standard  
 32° FWHM Optional 23° FWHM Optional  
 56° FWHM Optional 39° FWHM Optional  
 44x15° FWHM Line Optional

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



Additional stickers to cover Switch / Potentiometer holes

**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 – 3.88 oz (110g)

**PART NUMBER DESIGNATION: XS40-XXX**

XXX = Light Color – WHI, WWH, NWH and 850

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 - 8300K	65	504 lm	1184 lm
Natural White	-NWH	3700 - 5000K	75	468 lm	1100 lm
Warm White	-WWH	2600 - 3700K	80	396 lm	931 lm
Infrared	-850	860nm typ	n/a	760mW typ	2565mW typ

**Spectrum Illumination • 5114 Industrial Park Rd. • Montague, MI 49437**

**Phone 231-894-4590 • Fax 231-894-4582**

**www.spectrumillumination.com**

Rev. Date: 2012-12-04