

# 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 or Green/Yellow | 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

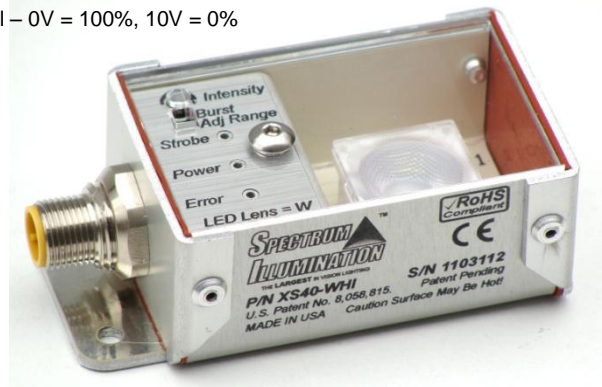
### FEATURES:

- 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                 |



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