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Input Voltage:	12 to	26.4VDC		
Input Current:	80m/	A typical (320mA max for burst) @24VDC		
-	120n	nA typical (620mA max for burst) @12VDC		
	Note	: Power supply must be capable of 320mA per light for burst feature to work correctly.		
Strobe Input Imp	edance: 10KC	$\Omega = PNP$ typical, 9.1K $\Omega = NPN$ typical		
Strobe Timing:	<20 ו	nicroseconds from strobe to LED on		
0-10V Input Imp	edance: 15K0	2 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-temperatu	e LED: 65 ±	5°C strobe disable / "Error" LED on; 5°C hyst. for strobe enable / "Error" LED off		
Wiring: Pin #	Wire Color	Function		
⁹ 4 1	Brown	+12 to +26.4VDC		
2	White	NPN STROBE INPUT: GND for "ON", Open or >Vin-1V for "OFF"		
1 (((;)))3 3	Blue	0VDC (DC GND)		
5 4	Black	PNP STROBE INPUT: < 1 VDC for "OFF", >3 ≤30 VDC for "ON"		
2 5	Grey or Green/Yellow	0-10VDC analog intensity control – 0V = 100%, 10V = 0%		

ES40 LIGHT

ES Series with Internal Driver

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 4 Colors and IR Quantity HB LED's: 1 16° FWHM Standard LED Lens: 23° FWHM Optional 39° FWHM Optional

- 44x15° FWHM Line Optional up to 50,000 hours*.
- *Contact us for LED life information

FEATURES:

LED Life:

- **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

PART NUMBER DESIGNATION: ES40-XXX

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XXX = Light Color - 470, 530, 630, 850, WHI
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Color	Dash#	λ Dominant Typical	λ Dominant Range	Spectral Half-width Δλ1⁄2	λ Peak Typical	Units	Typical mW per LED
Blue	-470	465	455 - 475	21	453	nm	420
Green	-530	530	525 - 535	39	518	nm	175
Red	-630	625	618 - 630	17	632	nm	200
Infrared	-850	850	n/a	30	860	nm	190
Pure White	-WHI	Color Temp 5700 - 7000K CRI 70 typ					360

- 0-10VDC Intensity Control
- Potentiometer Intensity Control
- PWM Dimming Capable (with Auto Burst disabled)
- Internal Thermal Protection •
- Robot Friendly Weight 3.88 oz (110g)

Other colors available on request

Spectrum Illumination • 5114 Industrial Park Rd. • Montague, MI 49437 Phone 231-894-4590 • Fax 231-894-4582 www.spectrumillumination.com

Additional stickers to cover

Switch / Potentiometer holes