

# WLS28 Series Strip Lights



## Versatile LED Strip Lights

- Compact design with countless options for intensity control, colors, connections, windows, lengths and motion detection
- Single-, dual-, or multicolored models for custom illumination, indication and more
- Ideal for use in indoor, outdoor, machine, assembly, washdown and other environments

# Versatile, All-Purpose LED Strip Lights



Compact, space-saving design available in eight lengths from 145 to 1130 mm

Optional switch for local intensity or color control

IP69K sealed model options available

Lensed models or choice of clear or diffuse window



Integral High/Low/Off switch; also available as standalone accessory



Integral Motion Detection; also available as standalone accessory



Cascade models for connecting multiple lights end-to-end, minimizing wiring



## Banner's Complete Lineup of Industrial LED Lighting

Robust, vibration-resistant housings and sleek designs make Banner Engineering's LED lighting ideal for a wide range of industrial applications, including machine lighting, enclosure lighting, visual inspection illumination and work cell lighting.

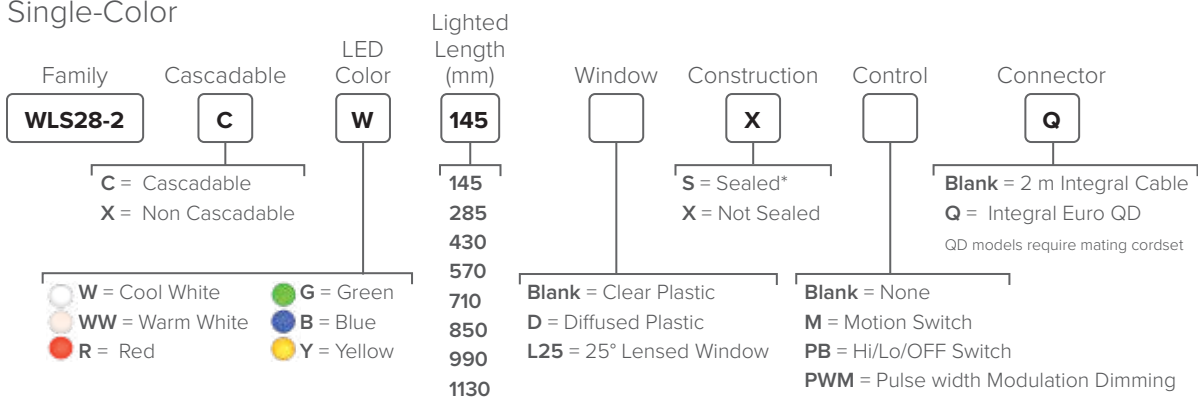




## Single-Color

- Options for intensity control, colors, connections, windows, lengths and motion detection give full solution flexibility
- Low overall power consumption plus intensity control reduce energy expenses
- Bracket and snap clip options simplify installation and allow fast repositioning
- UV 365 nm and 395 nm wavelength models available for UV fluorescent and non-fluorescent applications

### Single-Color

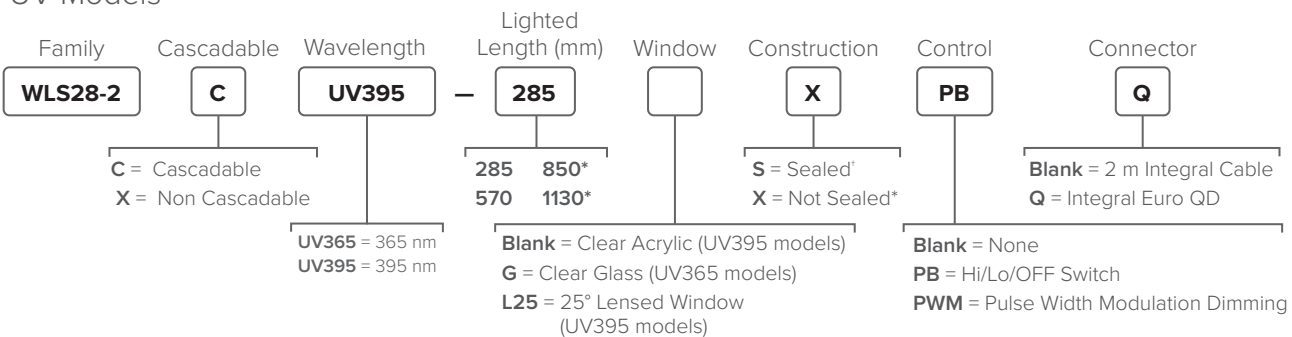


\* Sealed models not available with ON/OFF Switch (PB) or Motion Switch (M)

Length (mm)	Lumens (Typical @ 25 °C)					Typical Wattage* (Watts)
	Cool & Warm White	Green	Red	Yellow	Blue	
145	400	180	55	50	40	4
285	800	360	110	100	80	7
430	1200	540	165	150	120	11
570	1600	720	220	200	160	15
710	2000	900	275	250	200	19
850	2400	1080	330	300	240	22
990	2800	1260	385	350	280	26
1130	3200	1440	440	400	320	30

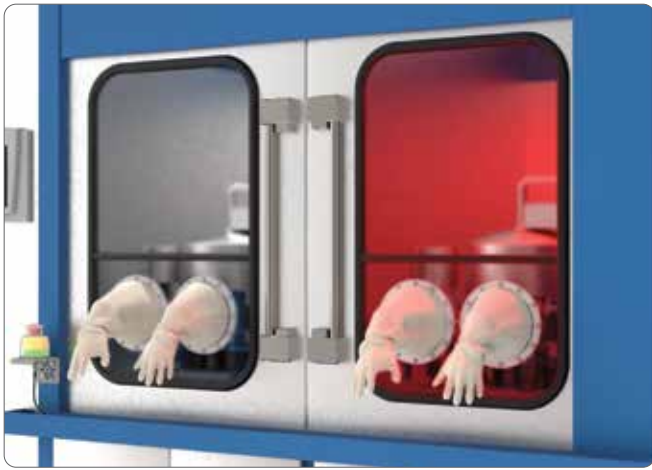
\*Typical operating wattage is measured at 24 V dc

### UV Models



\* Not available in UV365 models

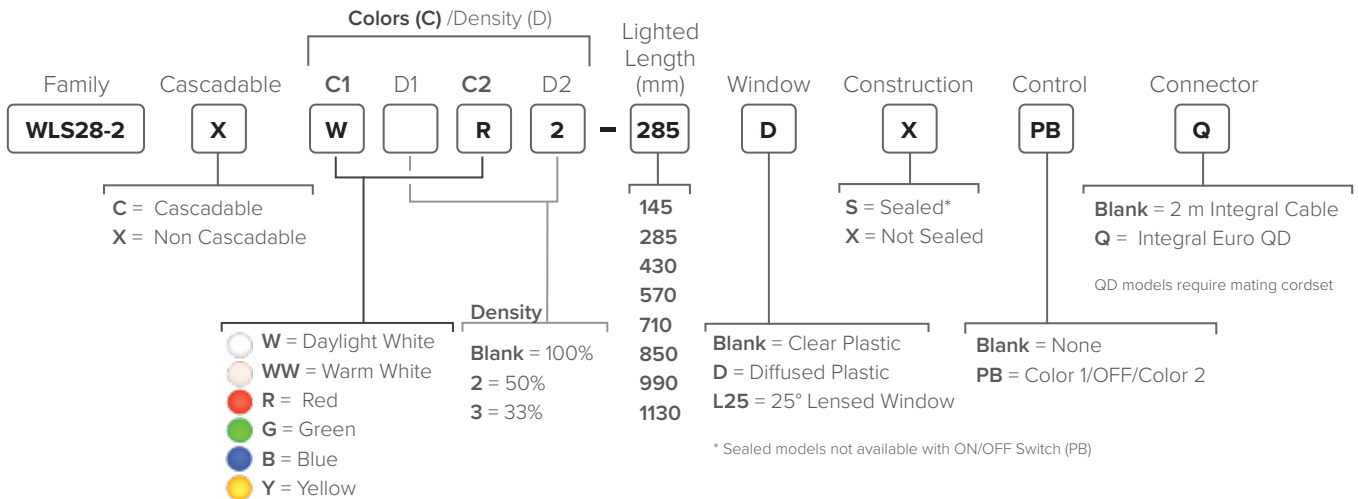
\* Sealed models not available with ON/OFF Switch (PB)



## Dual-Color

- Dual color models expand solution capabilities within the same compact housing and no additional wiring or controls required
- Direct or remote color control options allow for manual or automatic control
- Intensity can be customized for each color to provide application flexibility and maintain simple installation

## Dual-Color



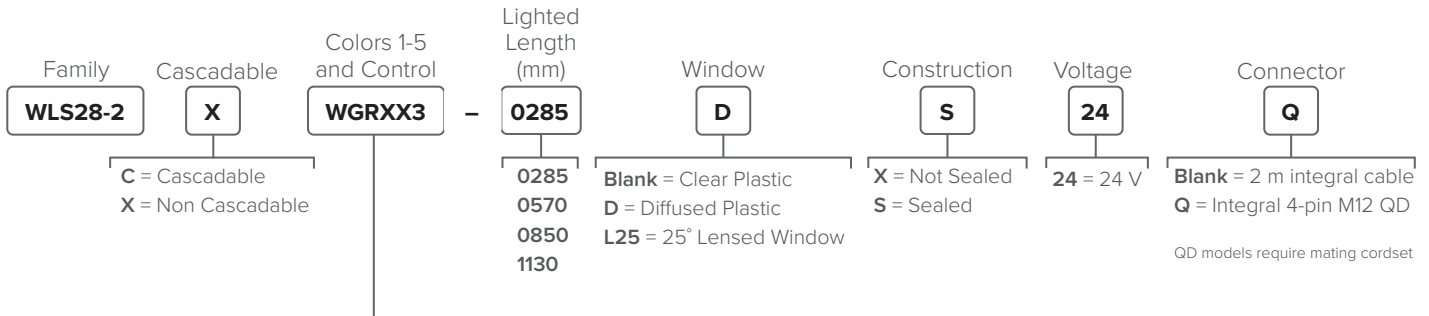
Length (mm)	Lumens* (Typical @ 25 °C)					Typical Wattage** (Watts)
	Daylight White	Red	Green	Blue	Yellow	
145	237	100	150	55	75	3.6
285	475	200	300	110	150	7.2
430	713	300	450	165	225	10.8
570	950	400	600	220	300	14.6
710	1188	500	750	275	375	18.2
850	1425	600	900	330	450	22.1
990	1663	700	1050	385	525	25.7
1130	1900	800	1200	440	600	29.8

\*Lumen values lowered by 25% on diffused window models  
 \*\*Typical operating wattage is measured at 24 V dc



# Multicolor with EZ-STATUS™

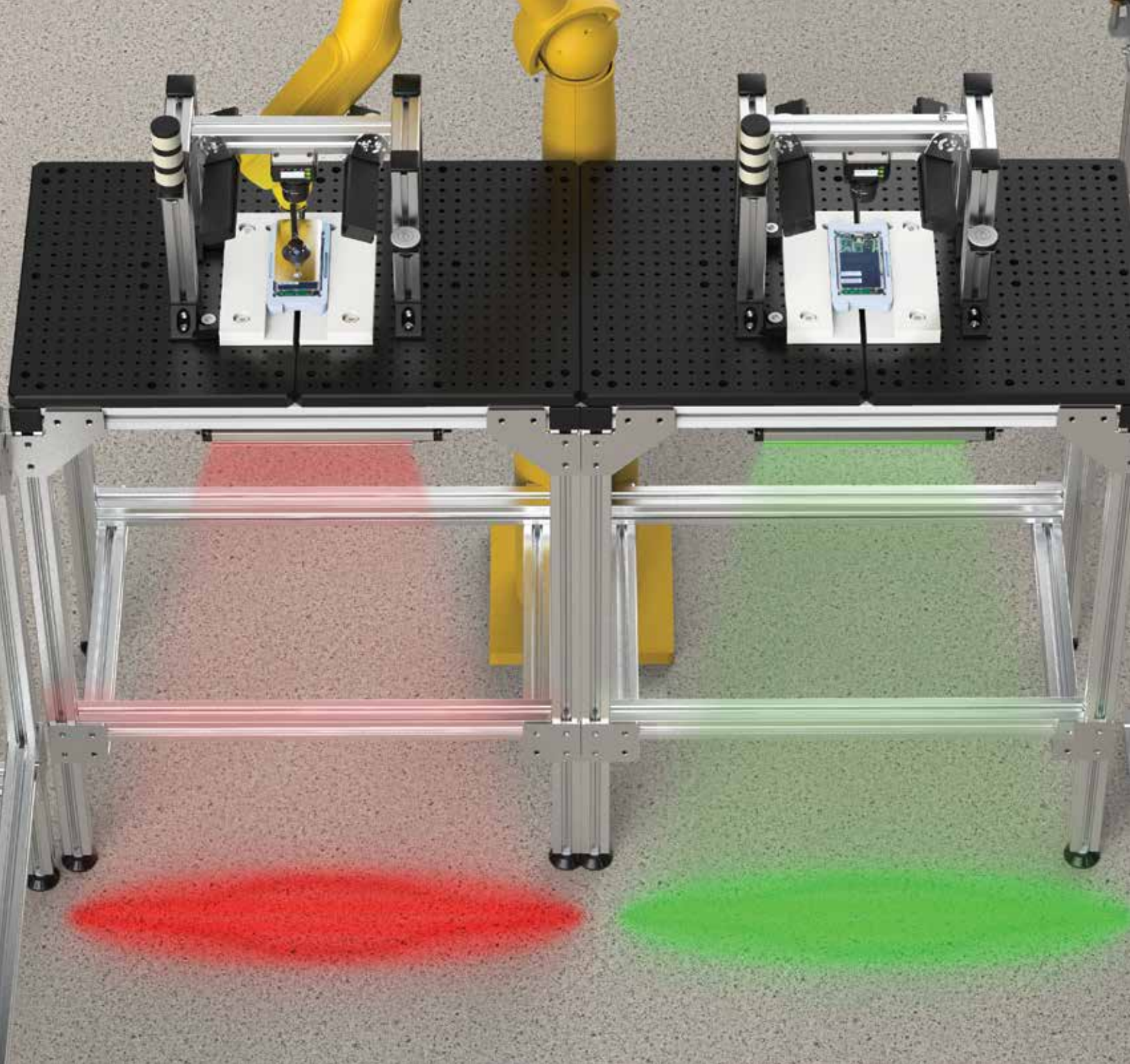
- Three and five color models cover all standard indication states with only four wires to connect
- Combine illumination and multiple indication capabilities in a single device to simplify installation and improve ergonomics
- EZ-STATUS™ promotes faster response to status changes and reduces the risk of costly mistakes and accidents



**WGRXX3** = White, Green, and Red with override control  
**WYRXX3** = White, Yellow, and Red with override control  
**GYRXX3** = Green, Yellow, and Red with override control  
**WGRYB5** = White, Green, Red, Yellow, and Blue with binary control  
**WGRXX6** = White, Green, and Red with I/O Block control  
**WYRXX6** = White, Yellow, and Red with I/O Block control  
**GYRXX6** = Green, Yellow, and Red with I/O Block control

Length (mm)	Lumens (Typical @ 25 °C)					Typical Wattage* (Watts)
	Daylight White	Green	Red	Yellow	Blue	
285	650	400	185	570	125	7
570	1300	800	370	1140	250	15
850	1950	1200	555	1710	375	22
1130	2600	1600	740	2280	500	30

\*Typical operating wattage is measured at 24 V dc



### Challenge

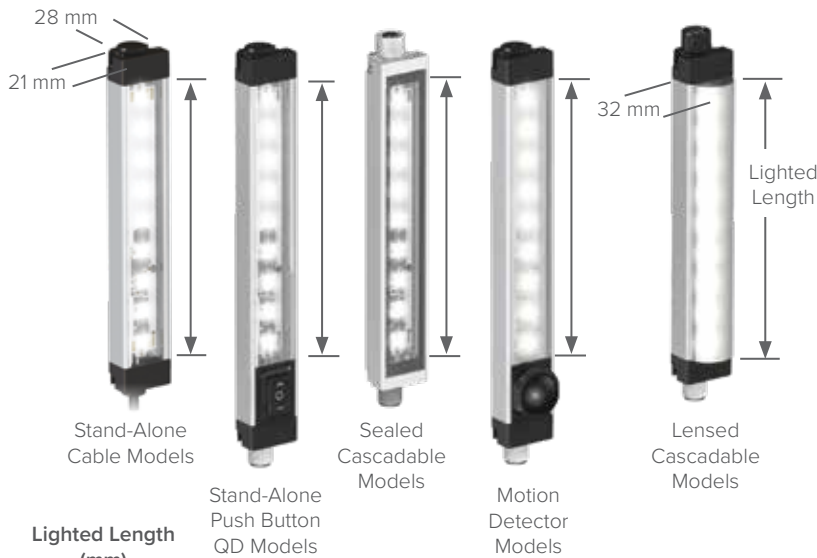
- Collaborative robots and operators must improve the production speed at an assembly cell
- Robots and operators need clear, non-verbal communication that doesn't obstruct the work area or interfere with the inspection system

### Solutions

- WLS28 EZ-STATUS™ models with the L25 lens option illuminate the floor area to guide operators to the correct assembly step
- A single light can display three or five colors, expanding signaling opportunities beyond simple ON/OFF logic
- The bright light from a slim housing doesn't obstruct the work area or disrupt the vision systems

# WLS28 LED Strip Lights

## Specifications



Lighted Length (mm)	
145	710
285	850
430	990
570	1130

<b>Supply Voltage</b>	Single- or Dual-color: 12 to 30 V DC Multicolor: 24 V DC
<b>Construction</b>	Clear anodized aluminum housing; painted zinc end caps; polycarbonate window on clear and diffuse plastic models; acrylic window on L25 models; zinc plated steel brackets
<b>Operating/Storage Temperature</b>	Models without motion detection: -40 to +70 °C (-40 to +158 °F) Models with motion detection: -20 to +60 °C (-4 to +140 °F)
<b>Environmental Rating</b>	Non-sealed models: IEC IP50 Sealed models: wIEC IP65, IEC IP67, IEC IP69K per DIN 40050
<b>Vibration and Mechanical Shock</b>	Vibration 10-55 Hz 1.0 mm p-p amplitude per IEC 60068-2-6 Shock 15G 11 ms duration, half sine wave per IEC 60068-2-27
<b>Certifications</b>	

## Accessories

<p><b>Top Mount</b></p> <p><b>SMBWLS28RA</b> (included with light)</p>	<p><b>Side Mount</b></p> <p><b>SMBWLS28SM</b></p>	<p><b>Magnetic Mount</b> Shown with SMBWLS28RA</p> <p><b>SMBWLSMAG</b> <b>SMBWLSMAGR</b> Protective cover for magnet sold separately</p>	<p><b>Snap Mount</b></p> <p><b>SMBWLS28SP</b></p>	<p><b>4-Pin M12</b> Straight connector models listed; for right-angle, add RA to the end of the model number (example, MQDC-406RA)</p> <p><b>MQDC-406</b> 2 m (6.5') <b>MQDC-415</b> 5 m (15') <b>MQDC-430</b> 9 m (30')</p>
<p><b>PSD-24-4 Class 2 Power Supply</b> Input: 90-264 V ac 1.5A Output: 24 V dc 3.9A 2 m (6.5') 4-Pin Euro Connector</p>				<p><b>4-Pin M12 Double-Ended</b> Straight male/straight female connectors</p> <p><b>MQDEC-401SS</b> 0.3 m (1') <b>MQDEC-403SS</b> 1 m (3') <b>MQDEC-406SS</b> 2 m (6.5')</p>
<p><b>WLS28-2MQ</b> In-Line Motion Detection Switch with M12 Connectors</p>	<p><b>WLS28-2PBQ</b> In-Line Switch with M12 Connectors</p>	<p><b>4-Pin M12 Splitter</b></p> <p><b>CSB-M1241M1241</b> 0.3 m (1') male trunk; 2 x 0.3 m (1') female branches</p>		