WLS28-2



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

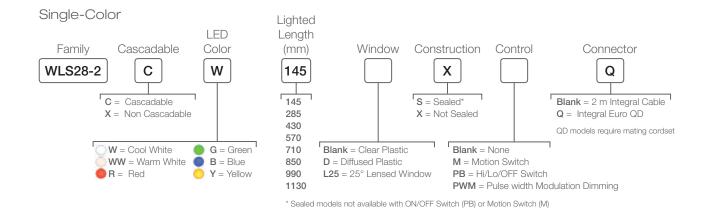
Robust, vibration-resistant housings and sleek designs make Banner Engineering's LED lighting ideal for a wide range of industrial applications, including machine lighting, enclosure lighting, visual inspection illumination and work cell lighting.

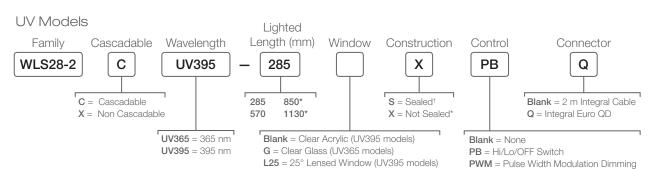




Single-Color

- 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





^{*} Not available in UV365 models

| | Lumens (Typical @ 25 °C) | | | | | | Typical |
|----------------|--------------------------|---------------|-------|-----|--------|------|---------------------|
| Length (mm) | Cool White | Warm White | Green | Red | Yellow | Blue | Wattage* (Watts) |
| 145 | 325 | 325 | 180 | 55 | 50 | 40 | 4 |
| 285 | 650 | 650 | 360 | 110 | 100 | 80 | 7 |
| 430 | 975 | 975 | 540 | 165 | 150 | 120 | 11 |
| 570 | 1300 | 1300 | 720 | 220 | 200 | 160 | 15 |
| 710 | 1625 | 1625 | 900 | 275 | 250 | 200 | 19 |
| 850 | 1950 | 1950 | 1080 | 330 | 300 | 240 | 22 |
| 990 | 2275 | 2275 | 1260 | 385 | 350 | 280 | 26 |
| 1130 | 2600 | 2600 | 1440 | 440 | 400 | 320 | 30 |

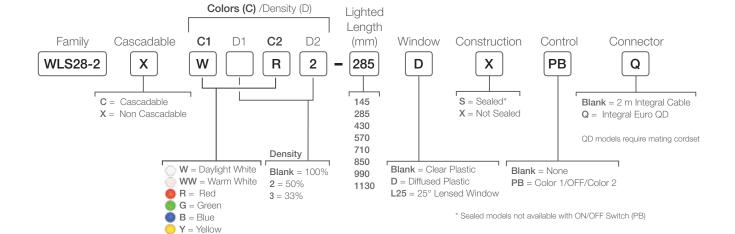
^{*}Typical operating wattage is measured at 24 V dc

[†] 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



| Length (mm) | Lur Daylight | Typical Wattage** | | | | |
|----------------|-----------------|----------------------|-------|------|--------|---------|
| (111111) | White | Red | Green | Blue | Yellow | (Watts) |
| 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 |

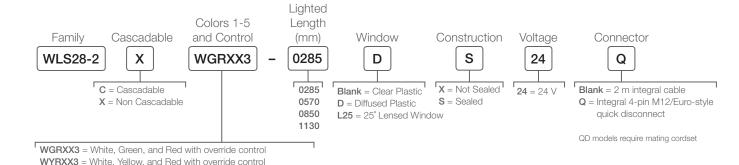
^{*}Lumen values lowered by 25% on diffused window models

^{**}Typical operating wattage is measured at 24 V dc



Multicolor with EZ-STATUS™

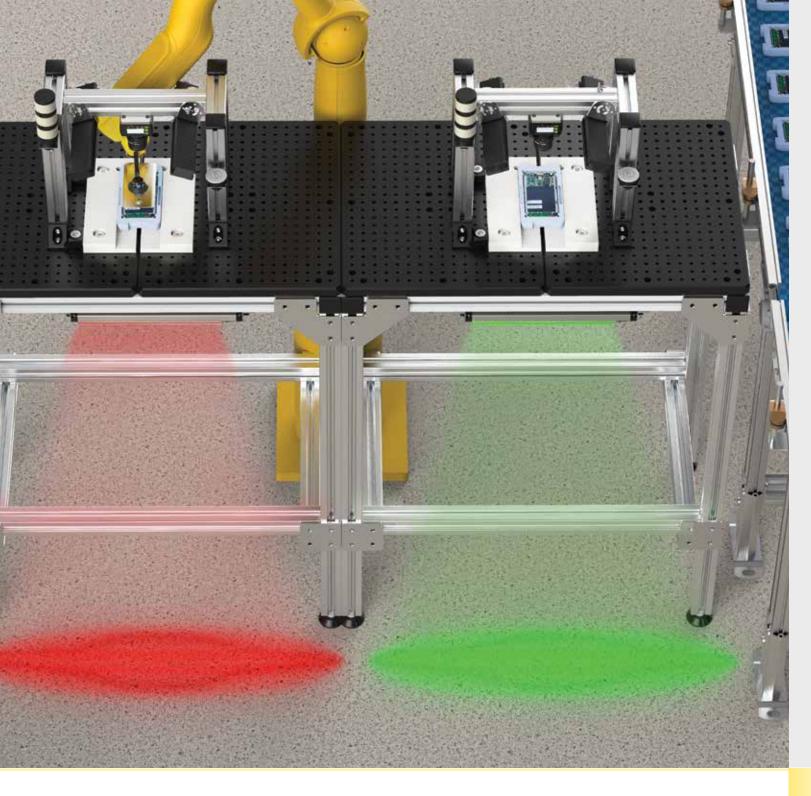
- Three and five color models cover all standard indication states with only four wires to connect
- Combine illumination and multiple indication capabilities in a single device to simplify installation and improve ergonomics
- EZ-STATUS™ promotes faster response to status changes and reduces the risk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



| | | Lu | Typical | | | | |
|---|----------------|----------|---------|-----|--------|------|----------|
| | Length (mm) | Daylight | | | | | Wattage* |
| | | White | Green | Red | Yellow | Blue | (Watts) |
| ĺ | 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

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



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



Supply Voltage

Construction

Temperature

Vibration and

Certifications

Mechanical Shock

Operating/Storage

Environmental Rating

Single- or Dual-color: 12 to 30 V dc

Multicolor: 24 V dc

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

Models without motion detection: -40 to +70 °C (-40 to +158 °F) Models with motion detection: -20 to +60 °C (-4 to +140 °F)

Non-sealed models: IEC IP50

Sealed models: IEC IP65, IEC IP67, IEC IP69K per DIN 40050

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







Accessories

Top Mount



SMBWLS28RA (included with light)

Side Mount



SMBWLS28SM

Magnetic Mount Shown with SMBWLS28RA



SMBWLSMAG SMBWLSMAGR Protective cover for magnet sold separately

Snap Mount



SMBWLS28SP





PSD-24-4 Class 2 Power Supply Input: 90-264 V ac 1.5A Output: 24 V dc 3.9A 2 m (6.5') 4-Pin Euro Connector





WLS28-2PBQ In-Line Switch with M12 Connectors



Straight connector models listed; for right-angle, add RA to the end of the model number (example, MQDC-406RA)

4-Pin M12/Euro-Style Double-Ended (straight male/straight female connectors)

4-Pin M12/Euro-Style Splitter



MQDEC-401SS 0.3 m (1') MQDEC-403SS 1 m (3') MQDEC-406SS 2 m (6.5')

CSB-M1241M1241 0.3 m (1') male trunk; 2 x 0.3 m (1') female branches











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