

# WLS27



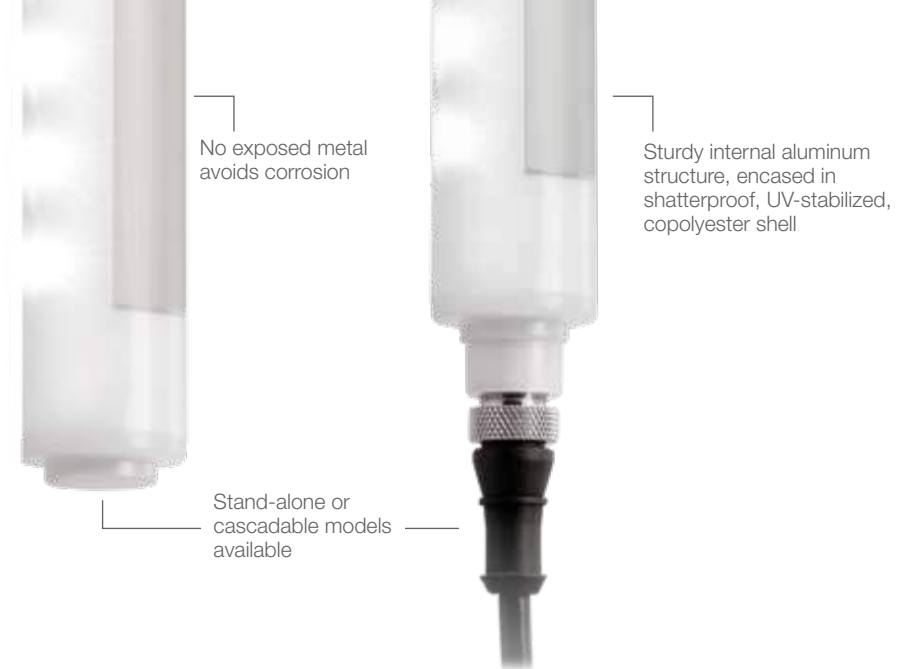
## Sealed LED Strip Lights

- Rugged, IP66, IP67 and IP69K design for harsh indoor and outdoor applications
- Single-, dual-, or multicolored models for custom illumination, indication and more
- EZ-STATUS® models combine illumination and indication
- Hazardous location models for gas and dust environments



# Advanced Solutions

- Eight lengths available from 145 to 1130 mm
- Hi/Lo/Off settings are controlled by the wiring
- Available in 6 colors to meet your application needs
- Dual-color and multicolor models controlled by two or three wires



## Single-Color

### Challenge

- Enclosed area is dark, making it hard for operators to see potential problems
- Machines are exposed to washdown procedures
- Light must not break during operation and cleaning

### Solution

- Bright LED illumination is rated for 50,000 hours
- Hygienic, IP69K certified housing for food processing and washdown environments
- Rugged design with shatterproof copolyester shell can be installed directly inside of the machine without worry



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

\*Typical operating wattage is measured at 24 V dc

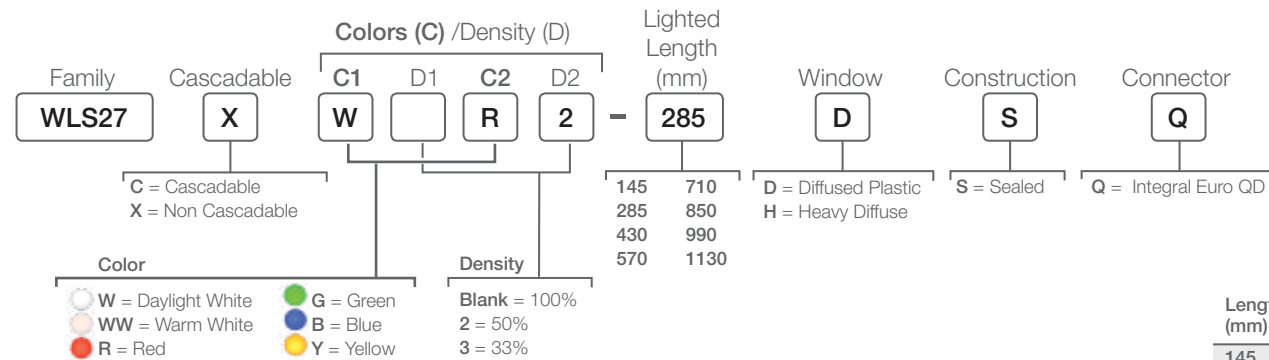
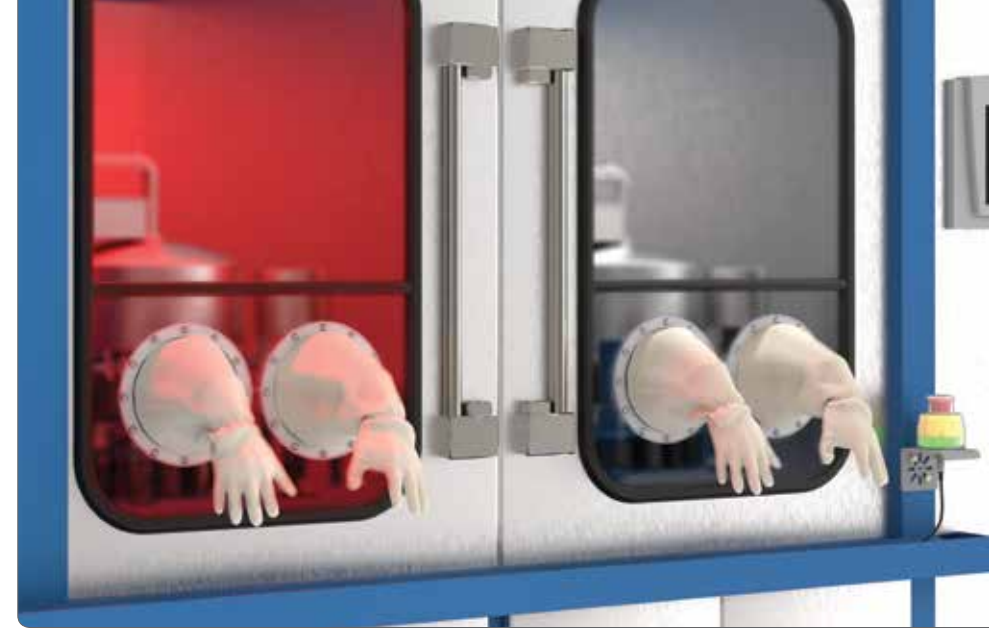
# Dual-Color

## Challenge

- On large machines, it can take time to determine the source of a problem
- Once a problem is identified, high quality task lighting is required for troubleshooting

## Solution

- Dual color lights alert operators to the machine condition and direct them to the location of the problem
- Allows operators to respond more quickly to status changes
- When the guard door opens, the light returns to white task lighting, providing clear visibility for troubleshooting



| Length (mm) | Lumens (Typical @ 25 °C) |     |        |       |      | Typical Wattage* (Watts) |
|-------------|--------------------------|-----|--------|-------|------|--------------------------|
|             | White                    | Red | Yellow | Green | Blue |                          |
| 145         | 238                      | 100 | 75     | 150   | 55   | 4                        |
| 285         | 475                      | 200 | 150    | 300   | 110  | 7                        |
| 430         | 713                      | 300 | 225    | 450   | 165  | 11                       |
| 570         | 950                      | 400 | 300    | 600   | 220  | 15                       |
| 710         | 1188                     | 500 | 375    | 750   | 275  | 18                       |
| 850         | 1425                     | 600 | 450    | 900   | 330  | 22                       |
| 990         | 1663                     | 700 | 525    | 1050  | 385  | 26                       |
| 1130        | 1900                     | 800 | 600    | 1200  | 440  | 30                       |

\*Typical operating wattage is measured at 24 V dc





## Illumination

Light up a space to increase productivity and improve worker ergonomics and safety.

- Low bay task lights bring extra light where needed when high bay or ceiling lights are insufficient or are blocked by structures
- Task lights provide bright, focused light for finer tasks at workstations
- Heavy-duty machine lights allow operators to see into machine enclosures to visually monitor machine processes

## Indication

Use colored light to provide visual status updates.

- Tower lights and other indicators can change colors and/or flash when a change in status has occurred
- Let a manager know he or she is needed at a station
- Alert an operator that a machine has jammed or material needs to be refilled

## Illumination + Indication

EZ-STATUS® models combine illumination and multiple indication capabilities in a single device.

- Promotes faster responses to status changes
- Improves ergonomics and limits wasted movement
- Reduces the risk of costly mistakes and accidents

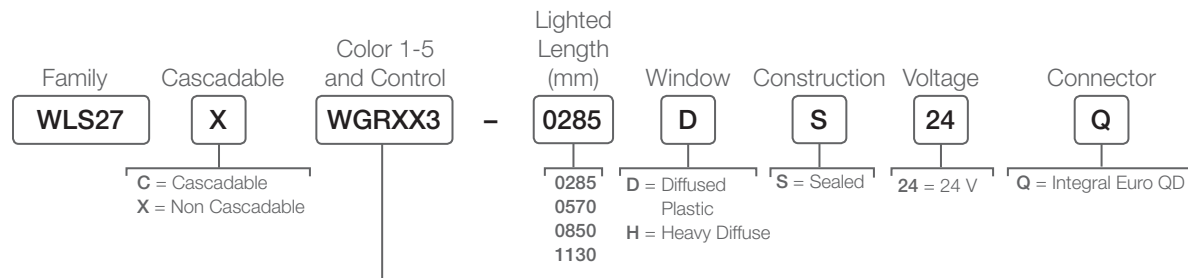
# Multicolor with EZ-STATUS®

## Challenge

- At workstations, operators may not see tower lights unless they are looking up and in the general direction of the indicator
- Operators may tune out audible alarm cues
- Not seeing or hearing an alert right away slows response time

## Solution

- Multicolor task lights provide illumination during normal operation and offer a large variety of color options for status indication
- When an alert occurs, the task light turns a designated color, flooding the whole work space with that color



- 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           | Red | Green | Blue | Yellow |                          |
| 0285        | 650                      | 185 | 400   | 125  | 570    | 7                        |
| 0570        | 1300                     | 370 | 800   | 250  | 1140   | 15                       |
| 0850        | 1950                     | 555 | 1200  | 375  | 1710   | 22                       |
| 1130        | 2600                     | 740 | 1600  | 500  | 2280   | 30                       |

\*Typical operating wattage is measured at 24 V dc



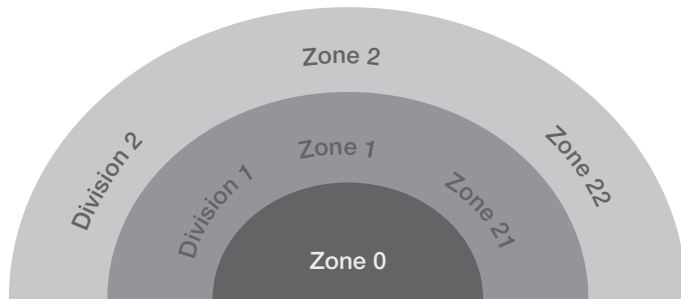


Rugged, water-resistant  
IEC IP66, IEC IP67 design

Slim, space-saving design  
for use in hazardous  
locations

# HLS27 Hazardous Location

- Certified for use in Class I Division 2, Class II Division 2, Class III Division 1 & 2, and Zone 2 & 22 locations
- Slim, space-saving design opens mounting possibilities and limits obstruction
- IP66, IP67 construction for installation in indoor, outdoor and washdown environments
- Single- and dual-color models for advanced signaling, inspection and other applications
- Custom brackets make mounting easy and protect against impact
- Intensity control via Hi/Lo/Off wiring or PWM dimming



**Models with 2.0 (6.3 ft) ITC-ER cable and unterminated tinned leads:**  
 Gas & Vapors: Class I Zone 2 IIC T4 / Class I Div 2 Groups ABCD T4  
 Dust: Class II Zone 22 IIC T135°C / Class II Div 2 Groups FG T4  
 Class III Div 1 and Div 2 T4



## Single-Color



| Length (mm) | Lumens (Typical @ 25 °C) |            |     |       |      |        | Typical Wattage* (Watts) |
|-------------|--------------------------|------------|-----|-------|------|--------|--------------------------|
|             | Cool White               | Warm White | Red | Green | Blue | Yellow |                          |
| 145         | 375                      | 375        | 65  | 205   | 45   | 55     | 4                        |
| 285         | 750                      | 750        | 130 | 410   | 90   | 110    | 7                        |
| 430         | 1125                     | 1125       | 195 | 615   | 135  | 165    | 11                       |
| 570         | 1500                     | 1500       | 260 | 820   | 180  | 220    | 15                       |
| 710         | 1875                     | 1875       | 325 | 1025  | 225  | 275    | 19                       |
| 850         | 2250                     | 2250       | 390 | 1230  | 270  | 330    | 22                       |
| 990         | 2625                     | 2625       | 455 | 1435  | 315  | 385    | 26                       |
| 1130        | 3000                     | 3000       | 520 | 1640  | 360  | 440    | 30                       |

\*Typical operating wattage is measured at 24 V dc

### Challenge

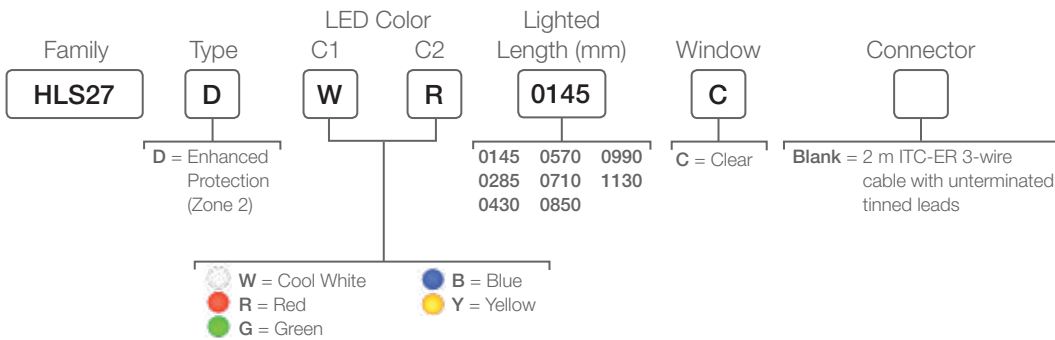
- Visibility is critical for visual inspection of product and machine performance in flexographic printing
- The presence of inks and solvents qualifies the machine area as Class I Division 2

### Solution

- HLS27 provides bright light so operators can verify print quality
- The slim design easily fits in the machine without obstructing the equipment or view
- Eight length options allow the HLS27 to fit across different material sizes
- Dimming options give the operator control of intensity and provide additional energy savings



### Dual-Color



| Length (mm) | Lumens (Typical @ 25 °C) |     |       |      |        | Typical Wattage* (Watts) |
|-------------|--------------------------|-----|-------|------|--------|--------------------------|
|             | Daylight White           | Red | Green | Blue | Yellow |                          |
| 145         | 275                      | 115 | 175   | 65   | 85     | 4                        |
| 285         | 550                      | 230 | 350   | 130  | 170    | 7                        |
| 430         | 825                      | 345 | 525   | 195  | 255    | 11                       |
| 570         | 1100                     | 460 | 700   | 260  | 340    | 15                       |
| 710         | 1375                     | 575 | 875   | 325  | 425    | 19                       |
| 850         | 1650                     | 690 | 1050  | 390  | 510    | 22                       |
| 990         | 1925                     | 805 | 1225  | 455  | 595    | 26                       |
| 1130        | 2200                     | 920 | 1400  | 520  | 680    | 30                       |

\*Typical operating wattage is measured at 24 V dc

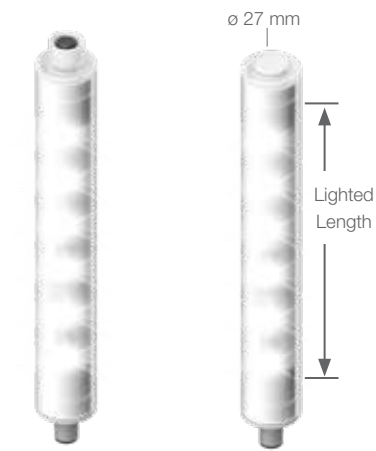
### Brackets



LMBHLS270

LMBHLS27S

## WLS27



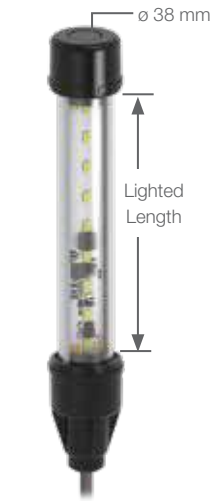
First or Middle of Cascade

Stand-Alone or Cascade End Light

### Lighted Length (mm)

|     |      |
|-----|------|
| 145 | 710  |
| 285 | 850  |
| 430 | 990  |
| 570 | 1130 |

## HLS27



Hazardous Location Models

### Supply Voltage

Single-, Dual-color, HLS27 models: 12 to 30 V dc  
Multicolor models: 24 V dc

### Construction

Clear anodized aluminum inner housing  
All WLS27 models: FDA-grade copolyester outer housing  
HLS27 models: UV stabilized polycarbonate outer housing

### Operating/Storage Temperature

Single-, Dual-color, HLS27 models: -40 to +70 °C (-40 to +158 °F)  
Multicolor models: -40 to +50 °C (-40 to +122 °F)

### Connections

All WLS27 models: Integral 4-pin M12 quick disconnect fitting (4-pin connecting cordset required)  
HLS27 models: 2.0 m (6.3 ft) ITC-ER cable with unterminated tinned leads

### Environmental Rating

All WLS27 models: IEC IP66, IP67, IP69K per DIN 40050  
HLS27 models: IEC IP66, IEC IP67

### Vibration and Mechanical Shock

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

### Certifications

WLS27 models:    HLS27 models:  

## Accessories



LMBWLS27EC



LMBWLS27H  
Stainless steel



LMBWLS27T  
Stainless steel



LMBWLS27U



LMBWLS27SP



WLS28-2MQ  
In-Line Motion Detection Switch with M12 Connectors (not sealed—IP50)



WLS28-2PBQ  
In-Line Switch with M12 Connectors (not sealed—IP50)

## IP69K Washdown Cables



### 4-Pin

**M12 Euro-Style Washdown**  
Straight connector models only

**MQDC-WDSS-0406**  
2 m (6.5')  
**MQDC-WDSS-0415**  
5 m (15')  
**MQDC-WDSS-0430**  
9 m (30')

**M12 Euro-Style**  
Double-ended (straight male/straight female connectors)

**MQDEC-WDSS401SS**  
0.3 m (1')  
**MQDEC-WDSS403SS**  
1 m (3')  
**MQDEC-WDSS406SS**  
2 m (6.5')

## Standard Cables



### 4-Pin

**M12 Euro-Style**  
Straight connector models listed; for right-angle, add **RA** to the end of the model number (example, **MQDC-406RA**)

**MQDC-406**  
2 m (6.5')  
**MQDC-415**  
5 m (15')  
**MQDC-430**  
9 m (30')

**M12 Euro-Style**  
Double-ended (straight male/straight female connectors)

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

**M12/Euro-Style Cordsets**  
Splitter

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



186573 Rev. D

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