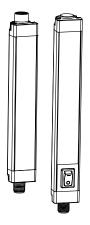


General-purpose LED work lighting for IP50 and IP67/IP69K environments

For the latest technical information about this product, including specifications, dimensions, and wiring, see www.bannerengineering.com.



Features

- High power solid state LED array
- · Designed for enclosure or area lighting
- · Rugged aluminum housing
- Narrow 28 mm total width
- Lighted lengths available from 145 mm to 1130 mm
- Low-profile design with included swivel mounting brackets
- Illuminates a large area with an even pattern of light and no shadows
- 12 to 30V dc operation
- · Cabled and Quick Disconnect models available
- · Stand-alone and cascadable models available
- IP50 and IP67/IP69K models available
- IP50 models available with or without ON/OFF switch
- · Low power consumption; less than 9 watts per foot
- Lensed model provides 2X the illumination focused to where it is needed

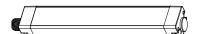


NOTE: When cascading lights, a model with an ON/OFF switch can be used to control the lights cascaded off of the switched model.

Work Light Strip Models



First Light in a Cascade—cable



Stand-Alone Light or End Light in a Cascade—QD



First or Middle of a Cascade—QD

WLS28 Work Light Strips are available as either stand-alone models, or as cascade models that can be "daisy-chained" together for a continuous length of lighting, with a minimum of wiring.

Stand-alone models have cable or male QD fitting at one end for power connection, no connections at opposite end. A stand-alone model may be used as the last in the cascade series.

Cascade models have cable or male QD fitting at one end for power connection, female QD fitting at opposite end for connection to other lights in the cascade. Cascade models with cable end can only be used as the first light in the cascade series. A double-ended accessory cordset (see *Cordsets* on page 5) must be used between each pair of lights in a cascade.

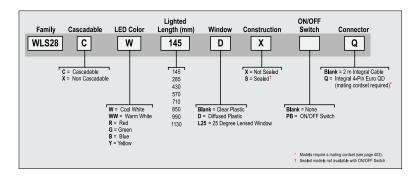


Table 1: IP50 Models

Non-Switch Models		ON/OFF Sw	vitch Models	Lighted	Power	
Stand-Alone	Cascade	Stand-Alone	Cascade	Length	Connector*	
WLS28XW145X	WLS28CW145X	WLS28XW145XPB	WLS28CW145XPB	145 mm		
WLS28XW285X	WLS28CW285X	WLS28XW285XPB	WLS28CW285XPB	285 mm		
WLS28XW430X	WLS28CW430X	WLS28XW430XPB	WLS28CW430XPB	430 mm		
WLS28XW570X	WLS28CW570X	WLS28XW570XPB	WLS28CW570XPB	570 mm	2 m cable	
WLS28XW710X	WLS28CW710X	WLS28XW710XPB	WLS28CW710XPB	710 mm	2 III Cable	
WLS28XW850X	WLS28CW850X	WLS28XW850XPB	WLS28CW850XPB	850 mm		
WLS28XW990X	WLS28CW990X	WLS28XW990XPB	WLS28CW990XPB	990 mm		
WLS28XW1130X	WLS28CW1130X	WLS28XW1130XPB	WLS28CW1130XPB	1130 mm		

^{*}Only cabled power connector models are listed. For 4-pin M12/Euro-style integral power connector, add suffix Q to the model number (for example, WLS28XW285XQ).

Table 2: IP67/IP69K Models

N	lodels	- Lighted Length	Power Connector*	
Stand-Alone	Cascade	- Lighted Length		
WLS28XW145S	WLS28CW145S	145 mm		
WLS28XW285S	WLS28CW285S	285 mm		
WLS28XW430S	WLS28CW430S	430 mm		
WLS28XW570S	WLS28CW570S	570 mm	2 m cable	
WLS28XW710S	WLS28CW710S	710 mm	Z III Cable	
WLS28XW850S	WLS28CW850S	850 mm		
WLS28XW990S	WLS28CW990S	990 mm		
WLS28XW1130S	WLS28CW1130S	1130 mm		

^{*}Only cabled power connector models are listed. For 4-pin M12/Euro-style integral power connector, add suffix Q to the model number (for example, WLS28XW285SQ).

Specifications

Supply Voltage and Current 12 to 30 V dc (10% max. ripple)

Use only with suitable Class 2 power supply.

Max current and power per length:

					Lumens* (Typical @ 25° C)					
Light Length	12V dc	24V dc	30V dc	Watts	Cool Wht	Wrm Wht	Grn	Red	Yel	Blu
145 mm	0.5A	0.25A	0.2A	6	225	180	126	60	114	36
285 mm	0.75A	0.375A	0.3A	9	450	360	252	120	228	72
430 mm	1.25A	0.625A	0.5A	15	675	540	378	180	342	108
570 mm	1.5A	0.75A	0.6A	18	900	720	504	240	456	144
710 mm	2.0A	1.0A	0.8A	24	1125	900	630	300	570	180
850 mm	2.25A	1.125A	0.9A	27	1350	1080	756	360	684	216
990 mm	2.75A	1.375A	1.1A	33	1575	1260	882	420	798	252
1130 mm	3.0A	1.5A	1.2A	36	1800	1440	1008	480	912	288

^{*} Lumen values lowered by 35% on diffused window models

Light Characteristics

Color Temperature and Wavelengths

Cool White: 5300–7000K Warm White: 2600–4300K Green: 520–535 nm Red: 620–630 nm Yellow: 585–595 nm Blue: 460–475 nm

Useful Life

When operating within specifications, output will decrease less than

30% after 50,000 hours.

Construction

Clear anodized aluminum housing; painted zinc end caps; acrylic

window; zinc plated steel brackets

Mounting

(2) swivel brackets SMBWLS28RA included and (4) screws

Environmental Rating

IEC IP50 (non-sealed models) or IEC IP67/IP69K per DIN 40050 (sealed models)

Connections

Integral 4-pin Euro-style QD (4-pin connecting cordset required for QD

models); or 2 m (6.5 ft) integral cable

Operating Temperature

-20 °C to +50 °C (-4 °F to +122 °F)

Storage Temperature

-40 °C to +70 °C (-40 °F to +158 °F)

Certifications



L25 models: UL pending

Application Notes

When connecting cascadable lights in series it is important not to exceed maximum current limitations:

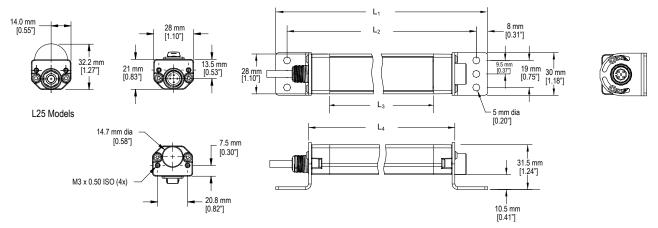
Maximum length of light at 12 V dc: 1.5 m (4.9 ft) Maximum length of light at 24 V dc: 3.0 m (9.8 ft) Maximum length of light at 30 V dc: 3.1 m (10.2 ft)

Maximum Ambient Operating Temperature for inside the cabinet of 50°C



NOTE: Do not spray cable with high-pressure sprayer, or cable damage will result.

Dimensions

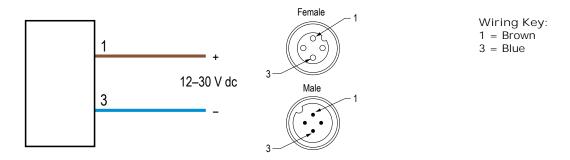


Dimensions are shown with included SMBWLS28RA bracket

Non-Switch Models							
IP50 Models	IP67/IP69K Models	L ₁	L ₂	L ₃	L ₄		
WLS28145X	WLS28145S	221 mm (8.7 in)	205 mm (8.1 in)	145 mm (5.71 in)	175 mm (6.9 in)		
WLS28285X	WLS28285S	362 mm (14.3 in)	346 mm (13.6 in)	286 mm (11.26 in)	316 mm (12.4 in)		
WLS28430X	WLS28430S	503 mm (19.8 in)	487 mm (19.2 in)	427 mm (16.81 in)	457 mm (18.0 in)		
WLS28570X	WLS28570S	644 mm (25.4 in)	628 mm (24.7 in)	568 mm (22.36 in)	598 mm (23.5 in)		
WLS28710X	WLS28710S	785 mm (30.9 in)	769 mm (30.3 in)	709 mm (27.91 in)	739 mm (29.1 in)		
WLS28850X	WLS28850S	926 mm (36.5 in)	910 mm (35.8 in)	850 mm (33.46 in)	880 mm (34.6 in)		
WLS28990X	WLS28990S	1067 mm (42 in)	1051 mm (41.4 in)	991 mm (39.02 in)	1021 mm (40.2 in)		
WLS281130X	WLS281130S	1208 mm (47.6 in)	1192 mm (46.9 in)	1132 mm (44.57 in)	1162 mm (45.7 in)		

ON/OFF Switch Models						
Model	L ₁	L ₂	L ₃	L4		
WLS28145XPB	251 mm (9.9 in)	235 mm (9.3 in)	145 mm (5.71 in)	205 mm (8.1 in)		
WLS28285XPB	392 mm (15.4 in)	376 mm (14.8 in)	286 mm (11.26 in)	346 mm (13.6 in)		
WLS28430XPB	533 mm (21.0 in)	517 mm (20.4 in)	427 mm (16.81 in)	487 mm (19.2 in)		
WLS28570XPB	674 mm (26.5 in)	658 mm (25.9 in)	568 mm (22.36 in)	628 mm (24.7 in)		
WLS28710XPB	815 mm (32.1 in)	799 mm (31.5 in)	709 mm (27.91 in)	769 mm (30.3 in)		
WLS28850XPB	956 mm (37.6 in)	940 mm (37 in)	850 mm (33.46 in)	910 mm (35.8 in)		
WLS28990XPB	1097 mm (43.2 in)	1081 mm (42.6 in)	991 mm (39.02 in)	1051 mm (41.4 in)		
WLS281130XPB	1238 mm (48.7 in)	1222 mm (48.1 in)	1132 mm (44.57 in)	1192 mm (46.9 in)		

Wiring



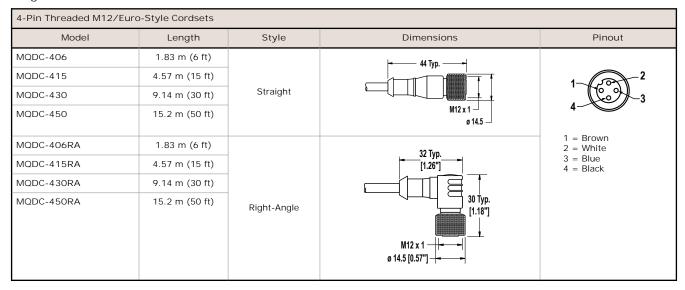
Accessories

Cordsets

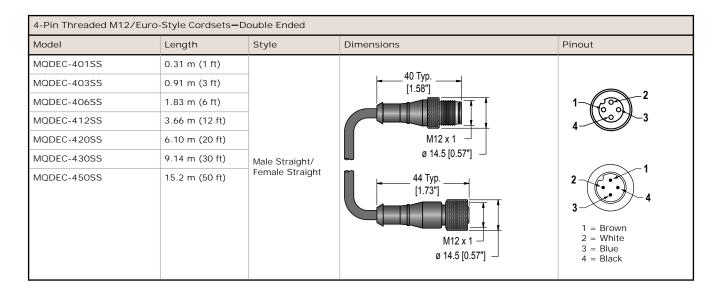
Single-ended cordsets are for use between power source and QD connection of stand-alone light or first light in a cascade.

Double-ended cordsets are for use between lights in a cascade.

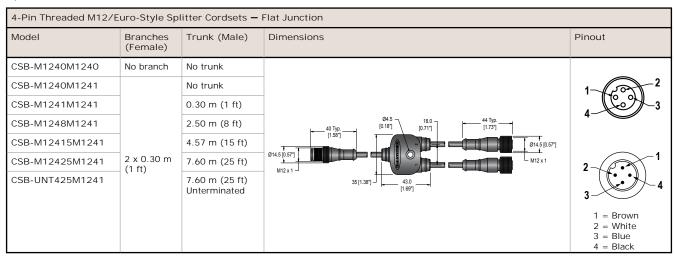
Single-Ended Cordsets



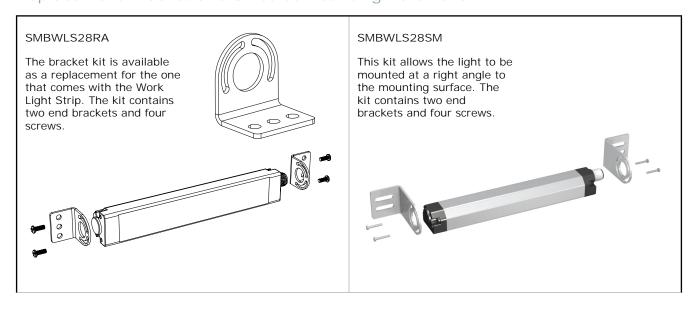
Double-Ended Cordsets



Splitter Cordsets



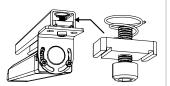
Replacement Bracket and Unistrut Mounting Hardware



SMH1316

This kit allows the light to be mounted to a 13/16-inch Unistrut channel. The kit includes:

- #10-32 spring nuts (qty 2)
- #10-32 socket head cap screws (qty 2)
- #10 lock washers (qty 2)



SMBWLSMAG

Magnetic mounting bracket for easy attachment to steel surfaces

SMBWLSMAGR

Protective cover also available to prevent scratches to painted surfaces



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