RLS27 Pro Rugged LED Strip Light

Datasheet

This guide is designed to help you set up and install the RLS27 Pro Rugged LED Strip light. For complete information on programming, performance, troubleshooting, dimensions, and accessories, please refer to the Instruction Manual at www.bannerengineering.com. Search for p/n 225443 to view the Instruction Manual. Use of this document assumes familiarity with pertinent industry standards and practices.

Important: Read the following instructions before operating the light. Please download the complete RLS27 Pro Rugged LED Strip light technical documentation, available in multiple languages, from www.bannerengineering.com for details on the proper use, applications, Warnings, and installation instructions of this device.

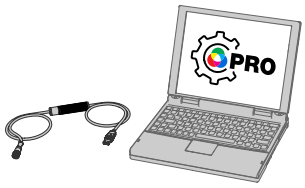
Important: Lea el siguiente instructivo antes de operar el luminario. Por favor descargue desde www.bannerengineering.com toda la documentación técnica de los RLS27 Pro Rugged LED Strip light, disponibles en múltiples idiomas, para detalles del uso adecuado, aplicaciones, advertencias, y las instrucciones de instalación de estos dispositivos.

Important: Lisez les instructions suivantes avant d'utiliser le luminaire. Veuillez télécharger la documentation technique complète des RLS27 Pro Rugged LED Strip light sur notre site www.bannerengineering.com pour les détails sur leur utilisation correcte, les applications, les notes de sécurité et les instructions de montage.

Models

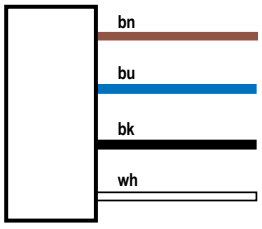
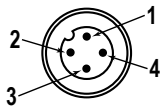
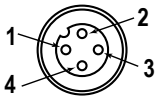
Family	Style	Cascadeable	Color	Lighted Length (mm)	Window	Construction	Connection
RLS27	P	X	RGBW	1130	L35	S	QP
	P = Pro	X = Non-Cascadable	RGBW = RGBW Multicolor	285 570 850 1130	Blank = Clear L35 = 35 degree lensed window	S = Sealed	QP = 150 mm (5.9 in.) PVC Cable with 4-pin M12 QD

Pro Editor



Use Banner's Pro Editor software and Pro Converter Cable to create custom configurations by selecting different colors, flash patterns, and animations.
For more information visit www.bannerengineering.com/proeditor.

Wiring

Diagram	Wire	Description [1]	Pinout (Male)	Pinout (Female)
	1 - Brown	Input 1		
	2 - White	Input 3		
	3 - Blue	DC common		
	4 - Black	Input 2	1 = Brown 2 = White 3 = Blue 4 = Black	1 = Brown 2 = White 3 = Blue 4 = Black

7 Color Binary Control *(Binary input state controls color, default configuration)*			
Input 1: Pin 1 Brown Wire	**Input 2: Pin 4 Black Wire**	**Input 3: Pin 2 White Wire**	**LED Color**
—	—	—	Light OFF
18 V DC to 30 V DC	—	—	Daylight White
—	18 V DC to 30 V DC	—	Green
—	—	18 V DC to 30 V DC	Red
18 V DC to 30 V DC	18 V DC to 30 V DC	—	Yellow

[1] Input functionality can change depending on configuration created with Pro Editor.

7 Color Binary Control *(Binary input state controls color, default configuration)*			
Input 1: Pin 1 Brown Wire	**Input 2: Pin 4 Black Wire**	**Input 3: Pin 2 White Wire**	**LED Color**
18 V DC to 30 V DC	—	18 V DC to 30 V DC	Blue Bounce with Daylight White Background
—	18 V DC to 30 V DC	18 V DC to 30 V DC	Daylight White with Red Ends Flash
18 V DC to 30 V DC	18 V DC to 30 V DC	18 V DC to 30 V DC	Warm White

Specifications

Supply Voltage
18 V DC to 30 V DC
Use only with suitable Class 2 power supply (UL) or a SELV power supply (CE)

Light Length	Typical Current			Maximum Current
	18 V DC	24 V DC	30 V DC	A
285 mm	0.480	0.360	0.300	0.550
570 mm	0.960	0.720	0.600	1.100
850 mm	1.440	1.080	0.900	1.650
1130 mm	1.920	1.440	1.200	2.200

Supply Protection Circuitry
Protected against reverse polarity and transient voltages

Input Rating
Leakage Current Immunity: 400 µA
Indicator On/Off Response Time: 300 ms (maximum)
PWM Duty Cycle Range: 0 to 100%
PFM Frequency Range: 100 to 10000 Hz

Mounting
Bracket kit LMBHLS27S included
Optional bracket kits available

Construction
Clear anodized aluminum housing
UV stabilized polycarbonate outer housing with vent
Nickel-plated QD connector

Connections
150 mm (6 in) PVC-jacketed cable with a 4-pin M12 male quick-disconnect connector

Note: Do not spray cable or vent with high-pressure sprayer or damage will result

Environmental Rating
Rated IP67, IP69K per DIN 40050-9

Vibration and Mechanical Shock
Impact: IK10 (IEC EN 60068-2-75)
Vibration: 10 Hz to 55 Hz, 1.0 mm peak-to-peak amplitude per IEC 60068-2-6 (5 minute sweep, 30 minute dwell)
Shock: 15G 11 ms duration, half sine wave per IEC 60068-2-27

Operating Temperature
–40 °C to +50 °C (–40 °F to +122 °F)
Storage Temperature: –40 °C to +70 °C (–40 °F to +158 °F)

Required Overcurrent Protection

WARNING: Electrical connections must be made by qualified personnel in accordance with local and national electrical codes and regulations.

Overcurrent protection is required to be provided by end product application per the supplied table.
Overcurrent protection may be provided with external fusing or via Current Limiting, Class 2 Power Supply.
Supply wiring leads < 24 AWG shall not be spliced.
For additional product support, go to www.bannerengineering.com.

Supply Wiring (AWG)	Required Overcurrent Protection (Amps)
20	5.0
22	3.0
24	2.0
26	1.0
28	0.8
30	0.5

Certifications

Banner Engineering BV Park Lane, Culliganlaan 2F bus 3, 1831 Diegem, BELGIUM

Turck Banner LTD Blenheim House, Blenheim Court, Wickford, Essex SS11 8YT, Great Britain

Advanced Capabilities

PULSE® PRO I/O

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For patent information, see www.bannerengineering.com/patents.

Mexican Importer

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