

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 225442 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.

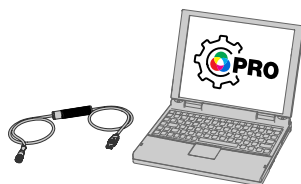


Important: Lisez les instructions suivantes avant d'utiliser le luminaire. Veuillez télécharger la documentation technique complète des RLS27 Pro Rugged LED Strip light sur notre site www.bannerengineering.com pour les détails sur leur utilisation correcte, les applications, les notes de sécurité et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

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 A
	18 V DC	24 V DC	30 V DC	
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



Banner Engineering Corp. Limited Warranty

Banner Engineering Corp. warrants its products to be free from defects in material and workmanship for one year following the date of shipment. Banner Engineering Corp. will repair or replace, free of charge, any product of its manufacture which, at the time it is returned to the factory, is found to have been defective during the warranty period. This warranty does not cover damage or liability for misuse, abuse, or the improper application or installation of the Banner product.

THIS LIMITED WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES WHETHER EXPRESS OR IMPLIED (INCLUDING, WITHOUT LIMITATION, ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE), AND WHETHER ARISING UNDER COURSE OF PERFORMANCE, COURSE OF DEALING OR TRADE USAGE.

This Warranty is exclusive and limited to repair or, at the discretion of Banner Engineering Corp., replacement. **IN NO EVENT SHALL BANNER ENGINEERING CORP. BE LIABLE TO BUYER OR ANY OTHER PERSON OR ENTITY FOR ANY EXTRA COSTS, EXPENSES, LOSSES, LOSS OF PROFITS, OR ANY INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES RESULTING FROM ANY PRODUCT DEFECT OR FROM THE USE OR INABILITY TO USE THE PRODUCT, WHETHER ARISING IN CONTRACT OR WARRANTY, STATUTE, TORT, STRICT LIABILITY, NEGLIGENCE, OR OTHERWISE.**

Banner Engineering Corp. reserves the right to change, modify or improve the design of the product without assuming any obligations or liabilities relating to any product previously manufactured by Banner Engineering Corp. Any misuse, abuse, or improper application or installation of this product or use of the product for personal protection applications when the product is identified as not intended for such purposes will void the product warranty. Any modifications to this product without prior express approval by Banner Engineering Corp will void the product warranties. All specifications published in this document are subject to change; Banner reserves the right to modify product specifications or update documentation at any time. Specifications and product information in English supersede that which is provided in any other language. For the most recent version of any documentation, refer to: www.bannerengineering.com.

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

Mexican Importer

Banner Engineering de México, S. de R.L. de C.V.
David Alfaro Siqueiros 103 Piso 2 Valle oriente
San Pedro Garza García Nuevo León, C. P. 66269
81 8363.2714