

## Technical Information

This guide is designed to help you set up and install the R50C PoE Splitter. For complete information on programming, performance, troubleshooting, dimensions, and accessories, please refer to the Product Manual at [www.bannerengineering.com](http://www.bannerengineering.com). Search for part number 235182 to view the Product Manual. Use of this document assumes familiarity with pertinent industry standards and practices.

## Status Indicators

### Power LED Indicator (Green)

- Solid Green = Power On
- Off = Power Off

## Specifications

### Input Characteristics

Voltage: 42.5 V DC to 57 V DC  
Current: 30 mA independent of powered device  
PoE (Class 0 - 802.3af, 802.3at Type 1)

### Output Characteristics

Voltage: 24 V DC  $\pm 10\%$   
Current: 450 mA average  
Power: 12.95 W  
Limited energy power supply evaluated to IEC, UL, and CSA 61010-2-201 that can be used to power devices that require a Class 2 or SELV power supply

### Supply Protection Circuitry

Protected against reverse polarity and transient voltages

### Data Rate

10/100 Mbps

### Construction

Coupling material: Nickel-plated brass  
Connector body: PVC translucent black

### Connections

- (2) Integral 4-pin D-code M12 female quick-disconnect connectors
- (1) Integral 4-pin M12 female quick-disconnect connector

### Environmental Rating

IP65, IP67, IP68  
UL Type 1

### Operating Conditions

**Temperature:**  $-40^{\circ}\text{C}$  to  $+50^{\circ}\text{C}$  ( $-40^{\circ}\text{F}$  to  $+122^{\circ}\text{F}$ )  
90% at  $+60^{\circ}\text{C}$  maximum relative humidity (non-condensing)  
**Storage Temperature:**  $-40^{\circ}\text{C}$  to  $+80^{\circ}\text{C}$  ( $-40^{\circ}\text{F}$  to  $+176^{\circ}\text{F}$ )

### Vibration and Mechanical Shock

Meets IEC 60068-2-6 requirements (Vibration: 10 Hz to 55 Hz, 0.5 mm amplitude, 5 minutes sweep, 30 minutes dwell)  
Meets IEC 60068-2-27 requirements (Shock: 15G 11 ms duration, half sine wave)

### Product Identification



### 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



IND. CONT. EQ.  
E316212

### 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](http://www.bannerengineering.com).

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

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