



RENA B2P 1CH MICRO LED DRIVER

The 90519077 micro 1 channel LED driver is a direct alternative to the 90519035 mini LED driver providing the same functionality and features in a smaller package. It will fit through a 18mm hole where the mini driver asks for a hole diameter of 28mm. Further changes were made with added removable mounting tabs. The 1 channel B2P micro driver can be used to drive any LED light source while supporting 0-100% dimming via the B2P protocol.

Visit www.bits2power.com for more information about B2P.

PRODUCT DESCRIPTION

- 1- channel B2P LED protocol
- Fits through 18mm hole
- 48 volt operation, 350/500/700mA versions
- Deep 0-100% dimming
- 3 Year Warranty
- Wide Operational Temperature Range
- CE certified

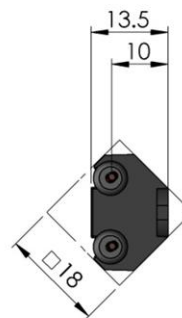
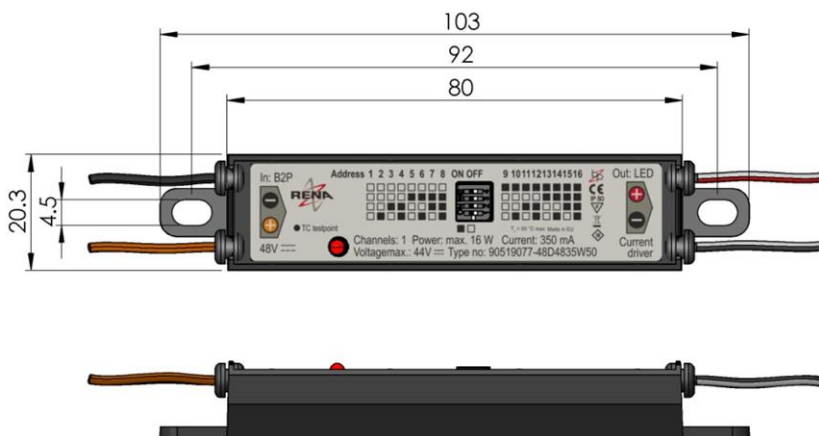


GENERAL CHARACTERISTICS

PARAMETER	CONDITIONS
Main Part Number	90519077
Dimensions	80 (103) x 18mm
Housing	Black PC
Temperature Range	-20 - +50°C Operating, -20-+70°C Storage
Environmental	IP50
Safety & EMC	EN55022, EN55024, EN61000-4-2,3,4,5,6,11

ORDERING INFORMATION	
16W, 350mA	90519077-48D4835W50
22W, 500mA	90519077-48D4850W50
31W, 700mA	90519077-48D4870W50

MECHANICAL DIMENSIONS



All dimensions are in millimetres. Drawings are not to scale.

ELECTRICAL CHARACTERISTICS

PARAMETER	MIN.	TYP.	MAX.
Input Voltage [V] DC	24	-	48
Output Current [mA] ¹	See ordering information for options		
Output Dim Range[%] ²	0-100%		
Output Voltage [V] ³	2.8	-	V _{in} - 4
Efficiency ⁴	Up to 92%		
Standby Power	1mW		
PWM frequency	920Hz		

1) Tolerances of 5% and for each circuit

2) PWM type dimming

3) Nominal output voltage is # of LEDs x LED forward voltage

4) Dependent on input vs output voltage

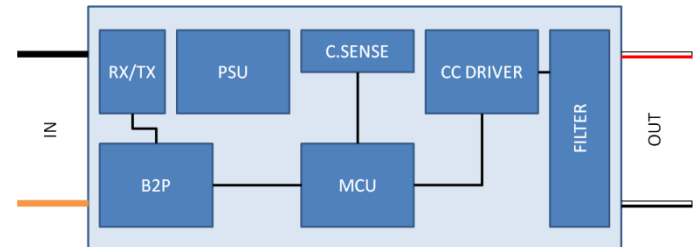
PROTECTIONS

PARAMETER	VALUE
Under voltage Lock-out	Yes
Short circuit protection	Output Current Limit
Reverse Polarity	Positive <-> Negative
Reverse Connection	Input <-> Output
Over temperature	70°C output de-rating

MODULE CONNECTIVITY

PARAMETER	COLOR	TYPE
Supply Input +	Orange	AWG20, 250mm
Supply Input -	Black	AWG20, 250mm
LED Output +	Red/White	AWG20, 250mm
LED Output -	Black/White	AWG20, 250mm

SIMPLIFIED BLOCK DIAGRAM



Subject to change without notice. V0.20 – 2017.12 FS