VDL RENA ELECTRONICA

MICRO DRIVER 90519077

The 90519077 micro 1 channel LED driver is a direct alternative to the 90519039 mini LED driver providing the same functionality and features in a smaller package. It will fit through an 18mm hole were 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. A rotary switch enables B2P address selection.

Revision 3 introduces a IP67 rotary switch for addressing to provide full compatibility with the mini LED driver.

PRODUCT DESCRIPTION

- 1-channel B2P controllable
- Fits through 18mm hole
- 48 volt operation, 250/350/500/700mA versions
- Deep 0-100% dimming
- 3 year warranty
- Wide operational temperature range
- CE certified
- IP67

GENERAL CHARACTERISTICS

PARAMETER	CONDITIONS
Main Part Number	90519077
Dimensions	80 (103) x ø18mm
Housing	Black PC
Temperature Range	-20 - +50°C Operating, -20-+70°C Storage
Environmental	IP67
Safety & EMC	EN55022, EN55024, EN61000-4-2,3,4,5,6,11

ORDERING INFORMATION	
5W, 120mA	90519077-48D4812W67
12W, 250mA	90519077-48D4825W67
16W, 350mA	90519077-48D4835W67
22W, 500mA	90519077-48D4850W67
31W, 700mA	90519077-48D4870W67

ELECTRICAL CHARACTERISTICS

PARAMETER	MIN.	TYP.	MAX.
Input Voltage [V] DC	24	48	52
Output Current [mA][1]	See ordering information for options		
Output Dim range[%][2]	0-100%		
Output Voltage [V] [3]	2.8	-	Vin – 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

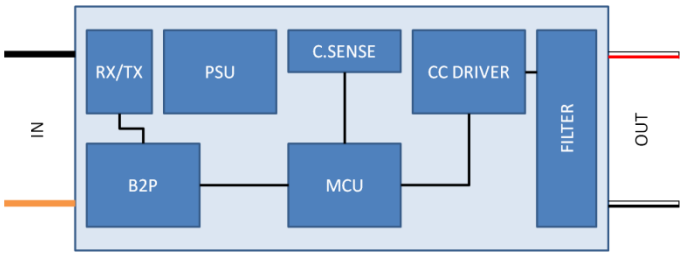
PROTECTIONS

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

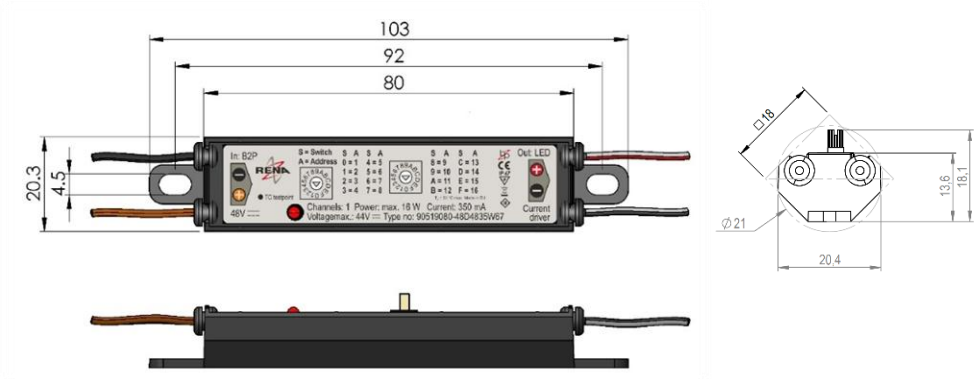
MODULE CONNECTIVITY

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



MECHANICAL DIMENSIONS



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

Subject to change without notice. HR3.00 – 2026.12