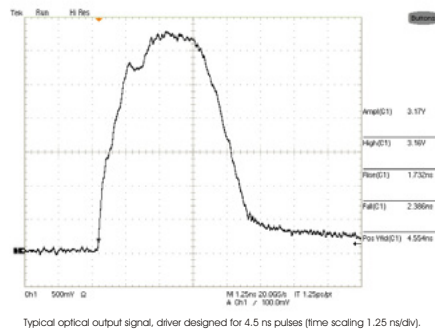


LDP-AV 4N20-40

Rev. 2004

LIDAR - Sequential controlled Laser Diode Driver



Product Description

The LDP-AV 4N20-40 is a nanosecond driver especially designed for multi-channel LIDAR applications. It is a 4-channel high side driver which is capable for driving more than 160 A in total. This driver enables pulse to pulse modulation and can therefore also be used for coding algorithms. The exact pulse duration can be adjusted by PicoLAS to your demands. The laser diode can be mounted directly on top of the driver.

With the compact and small design the driver achieves a high power density. The output of 160 A** is accomplished by 4 separate channels. Each channel can be controlled independently

- Ultra compact driver 47 x 17 mm²
- 4 independent channels
- 4 x 40 A or 1 x 160 A output current**
- Fixed pulse duration e.g. 2 ns
- Rep. rates from single shot to 250 kHz
- Single +5.5 V supply
- Easy settings of output current via an external voltage
- Flexible platform to install and test laser diodes
- High power density
- Applications: LIDAR, Measurements, Ignition, Rangefinding, Biochemistry, ...

Technical Data

Output current	
Each channel	4 x 0 .. 40 A
Flash	1 x 160 A
Pulse duration	Fixed e.g. 2 ns
Repetition rate	Single shot to 250 kHz**
Max. duty cycle	TBD
Trigger input	+5 V into 50 Ω
Supply voltage	+5.5 V
Precharging Voltage	10 .. 190 V
Dimensions	47 mm x 17 mm
Weight	TBD

* Tested with OSRAM SPL PL90_3 laser diode
 ** See manual for detailed information

Optional Accessories:
 195170-LiDAR-Bob-Typ_2_Sequentiell