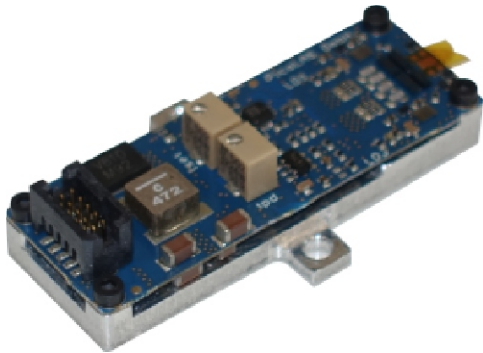




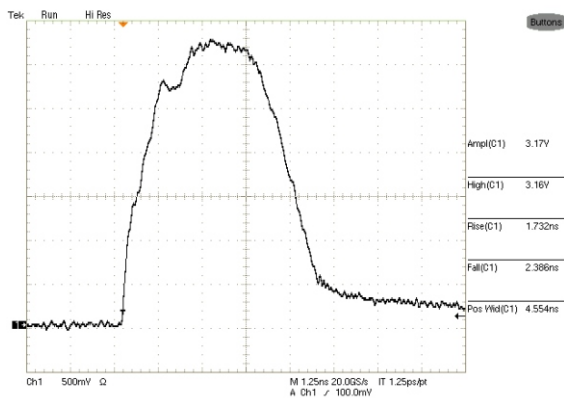
LDP-AV 4N20-40

Rev. 2004

LIDAR - Sequential controlled Laser Diode Driver



- 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, ...



Typical optical output signal, driver designed for 4.5 ns pulses (time scaling 1.25 ns/div).

Technical Data

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

* Tested with OSRAM SPL PL90_3 laser diode

** See manual for detailed information

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

Optional Accessories:
[195170-LiDAR-Bob-Typ_2_Sequentiell](#)