Fibotec Fiberoptics GmbH

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Socketdriver RMC Laser Diode Driver with BF LD Socket



The Socketdriver RMC is a laser diode driver, that can be controlled through a digital electronic interface or the front panel. A customer owned laser diode or SLD (BF-package) can easely plugged to an internal socket and the fiber pigtail connected with the front panel fiber adapter (standard is SC). The LSD^P-version is used with LD having pump laser pinout, the LSD^S-version is used with signal lasers.

The Socketdriver RMC can be easely controlled by commands through the serial interface. Command structure, such as (details in the manual): set ch1 pow xxx get ch1 vol L

The driver is DC powered (12 V), an additional (external) switching power supply for wallplug operation is an available option (depends on country of use). Also other fiber adapters can be reviewed as an option. Fibotec Fiberoptics GmbH

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control interface: size: weight: air flow for cooling: lop: environmental conditions:

features (interface, commands)

USB 165 x 85 x 215 mm (WxHxD) 12 V DC, 2 A bottom front side in, back side out max 2 A (LD), max. 3 A (TEC) non-condensing, Top +5°C ... 50°C

operation of LD in ACC, APC mode, PVI-test TEC setpoint -20° ... 60°C (set LD TEC) Max Current Setpoint set: LD power by IP-out or current by Iop (ACC, APC)

current increments and max lop max. TEC current max ITEC temperature by thermistor value read: LD operational current (Iop)

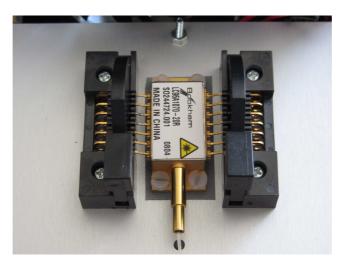
TEC current (ITEC) LD monitor current (I_{MPD}) heatsink temperature by thermistor value (T_{MF}) LD temperature by thermistor value (T_{LD}) compliance voltage (V_{LD}) and TEC voltage (V_{TEC})

maximum compliance voltage: setpoint resolution:

2.9 V

temperature stability (TEC setpoint): current stability (Iop): modulation: power stability (IMPD): compliance voltage (V_{LD}): fiber termination: fixture accepts:

0.5°K (LD TEC), 0.5 mA (Iop), ~1 mW (IP-out or IMPD) 0.5 mA min. current increment (PVI-test) 0.1°K (@constant T_{MF} after 1 hour warm-up) 0.5% (@constant T_{MF} after 1 hour warm-up) 20 Hz minimum, rise/fall time max. 1 µs 0.5% (@constant T_{MF} after 1 hour warm-up) 10 mV (@constant T_{MF} after 1 hour warm-up) SC



butterfly-package laserdiodes (specify pinout)