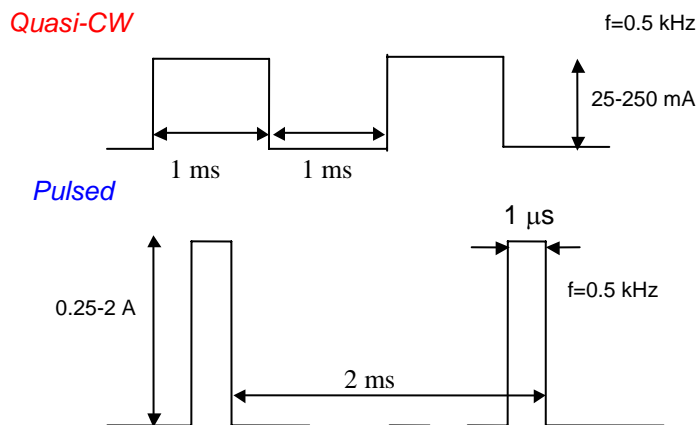


LED Driver Model D-21

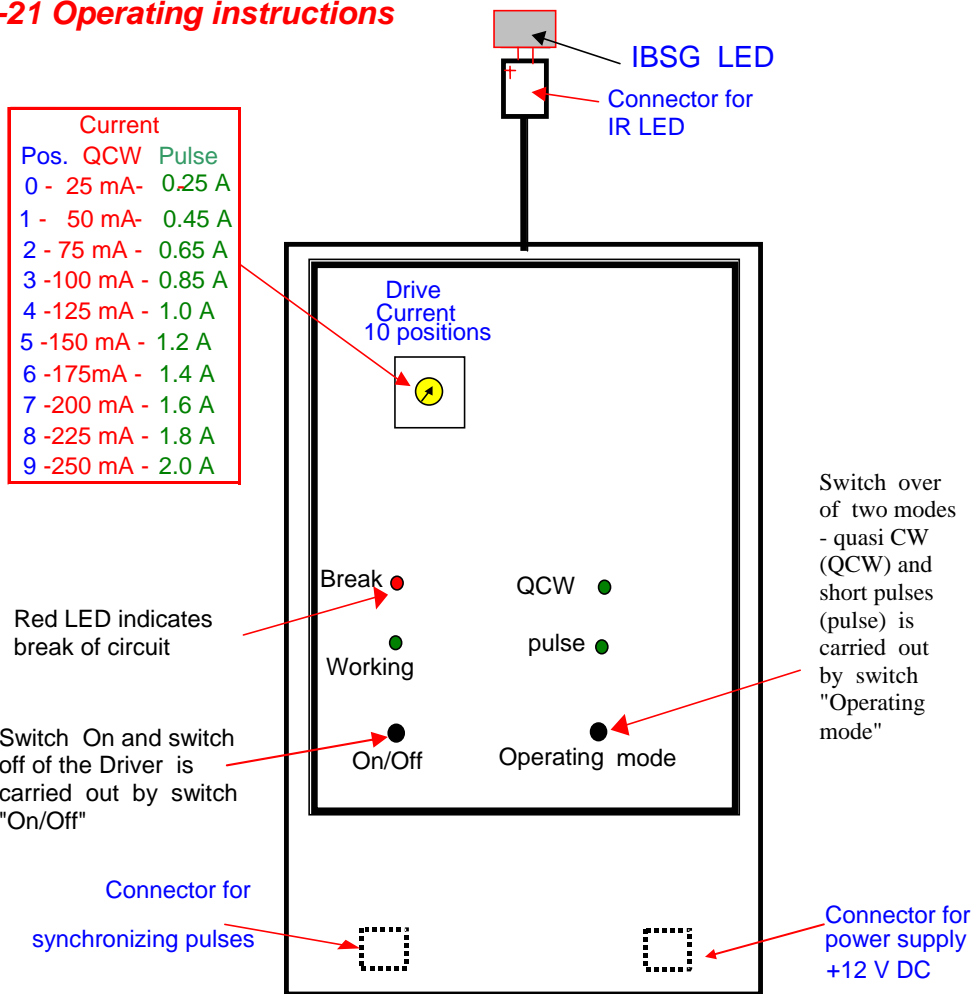
- Driver **D-21** is designed for power supply of all models Mid-IR LED's manufactured by IBSG. Driver provides two modes of operation:
- Quasi Continuous Wave (quasi steady-state) mode. Such mode provides maximum average optical power from the LED. Current in this mode can be changed in the range 25-250 mA. Frequency of 0.5 kHz is used.
- Pulse mode. Such mode provides maximum peak optical power from the LED. In this mode pulse duration of 1 μs is used. Peak current in pulse mode can be changed in the range 0.25 -2 A.
- Customer can specify in his order other frequency of pulse duration.



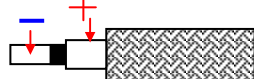
Parameters	Pulse mode	Quasi-CW mode
Pulse duration	1 μs	1000 μs
Repetition rate	0.5 kHz	0.5 kHz
Current amplitude	0.25 -2 A	25-250 mA
Dimensions, mm	105x58x20	
Weight	90 g	
Power requirement	+12 V DC	

LED Driver Model D-21

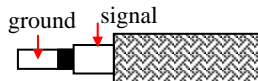
LED Driver D-21 Operating instructions



1. Insert AC/DC adapter into connector "+12V DC" (Attention on voltage polarity).



2. If necessary connect "Connector for synchronizing pulses" with selective amplifier of the detector signal (Attention on voltage polarity).



3. Insert IBSG LED into connector "LED" (Attention on voltage polarity - + to the red point on the LED package).

Caution! Usually as it pointed in technical passports reflector of a IBSG's LED is connected with anode (+) therefore it can be isolated from the ground or the mass!

4. Select operating mode - "QCW" or "Pulse" (switch "Operating mode"). Green LED will indicate selected mode. Installed frequency is 0.5 kHz. If you select pulse mode, installed pulse duration is 1 μs. Customer can specify in his order other frequency and/or pulse duration.
5. Set position "0" on Switch "Current"
6. Switch On Driver (switch On/Off). Green LED "Working" will indicate that current is flowing. If after switching on current is not flowing red LED "Break" will indicate break of the circuit. That situation can take place if testing Infrared LED is damaged.
7. Select drive current that you need beginning switching from "0". Please, be sure that drive current don't expire maximum value for the tested infrared LED pointed in Technical Specification of the LED.
8. For the change regime (QCW or pulse) Please turn off the driver (with switch Off) and set the required regime as pointed in p.4. and then switch On Driver (switch On/Off) again.