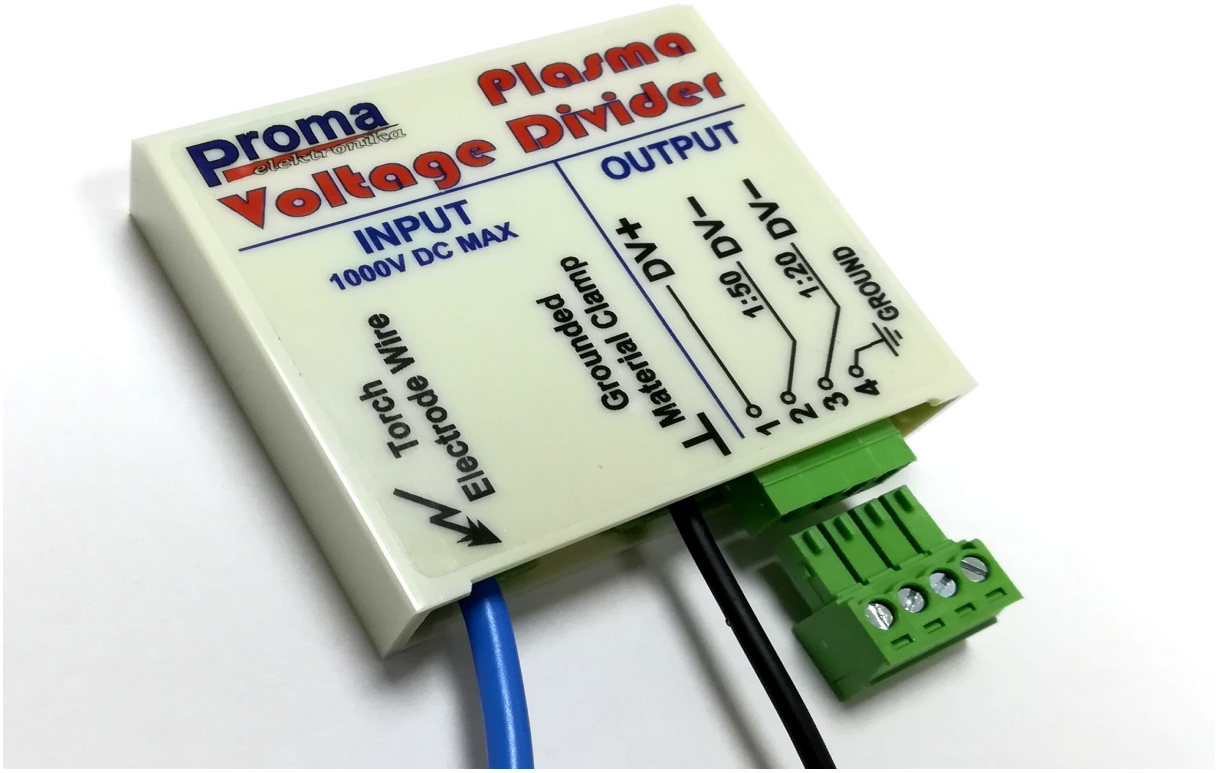
Voltage divider for plasma cutters



Please read the instructions before connecting the device.
The manufacturer is not responsible for damages resulting from incorrect connection of the device.

The device may only be connected by a qualified person with an electrical license.

Inside the device and the wires of the device there is a high voltage which is dangerous for life and health.

The device has been designed to cooperate with Proma-Elektronika devices.

Technical parameters :

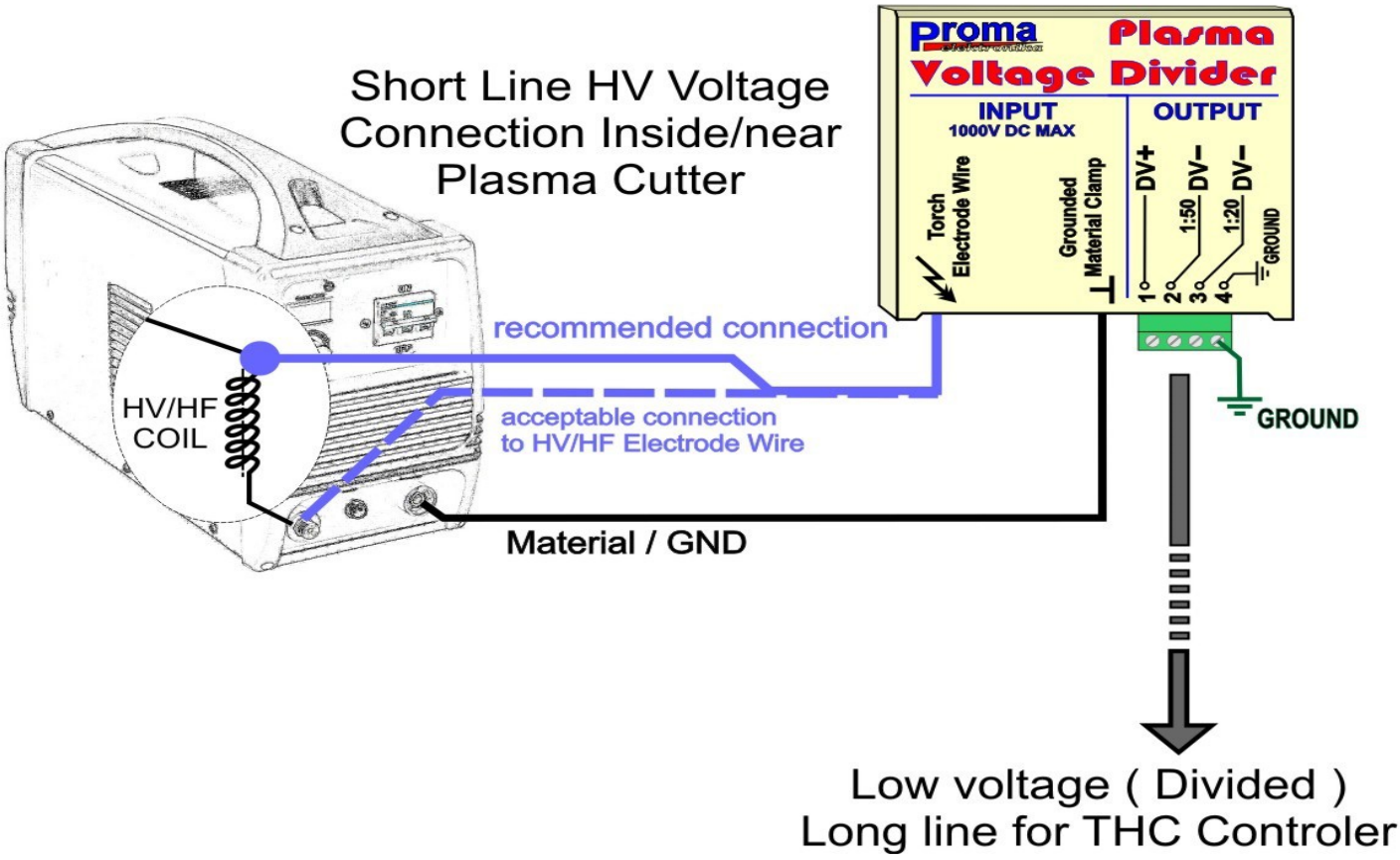
Permissible input voltage **: 1000VDC***
Galvanic separation **: NO**
Voltage divide **: 1/20 ; 1/50**
Output voltage max **: 36VDC**
Output signal delay **: 7-10ms**
Dimensions **: 55x55x15 [mm].**
Cable length HF/HV **: 2x300mm**
IP protection level**: IP20****

* Manufacturer's test**: 1200VDC / 12kV HF/HV**
** IP protection level for HF/HV circuits**: IP66**

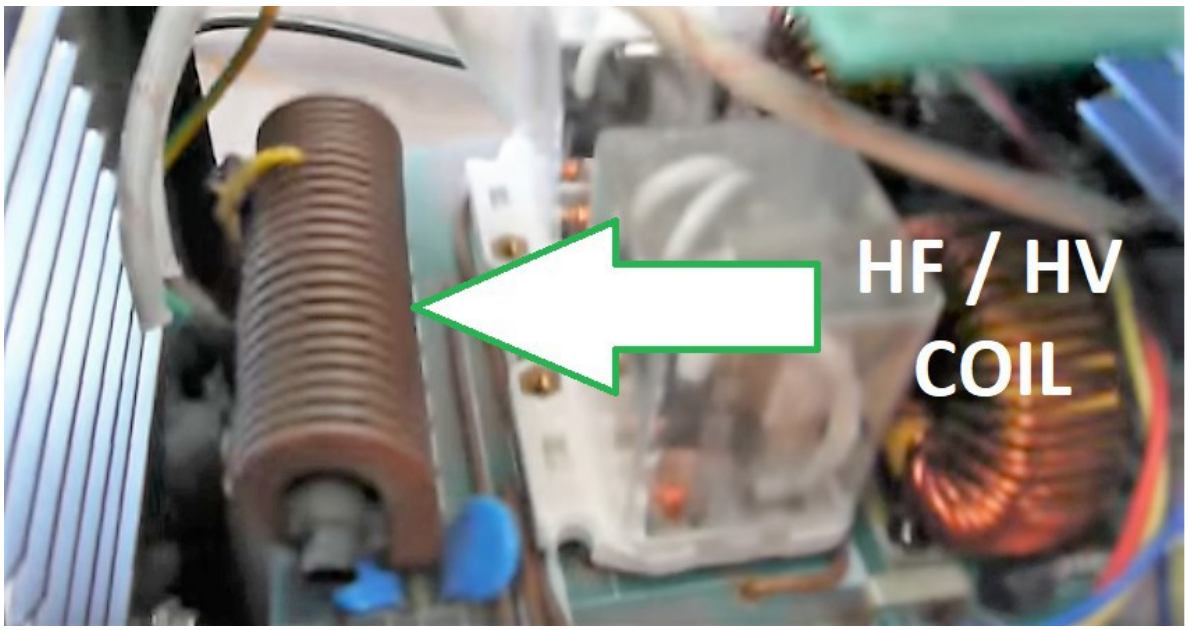
Description :

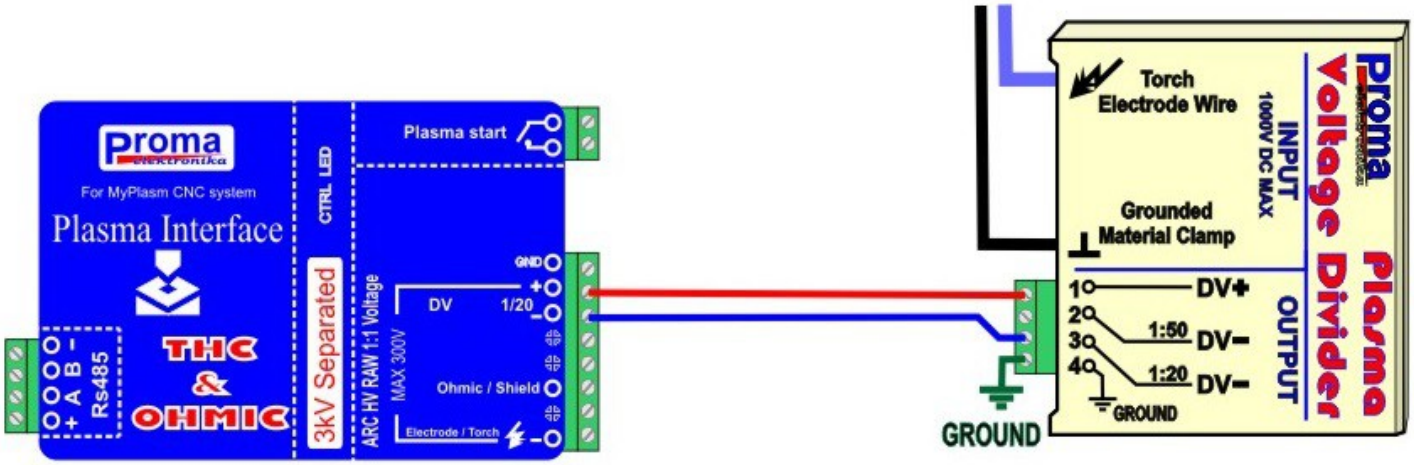
The device is designed for installation in plasma cutting machines which do not have a built-in voltage knockout at the factory in order to reduce the raw voltage of the plasma arc to the level suitable for THC burner height controllers. The device has been designed and calibrated to work with Proma-Elektronics devices: Compact THC 150, Compact THC SD, Plasma interface (MyPlasm CNC system), connecting to other devices may damage them.

When connecting to a plasma cutter, it is important to remember that there is a high voltage inside the device which is dangerous to human health and life. Before removing the housing from the plasma source, it is absolutely necessary to disconnect the device from the mains and wait a few minutes for the capacitors, which maintain dangerous voltage even after turning off the device.



In order to minimize interference and the possibility of overvoltage it is recommended to connect the divider before the HF/HV generator by connecting the blue (electrodes) in front of the coil of the HV/HV generator. There are much smaller HF/HV voltage interferences here.





Connect To Plasma Interface (MyPlasm CNC System)

Connect To Compact THC 150 or Compact THC SD