

Switchbox SBN040402

For laser diode beam sources of electronics type HP and 12 V power supply



FEATURES

The Switchbox SBN040402 has two separate modulation inputs for laser diode beam sources of electronics type HP and 12 V power supply. Recommended power supply module [PS120516E](#).

DESCRIPTION

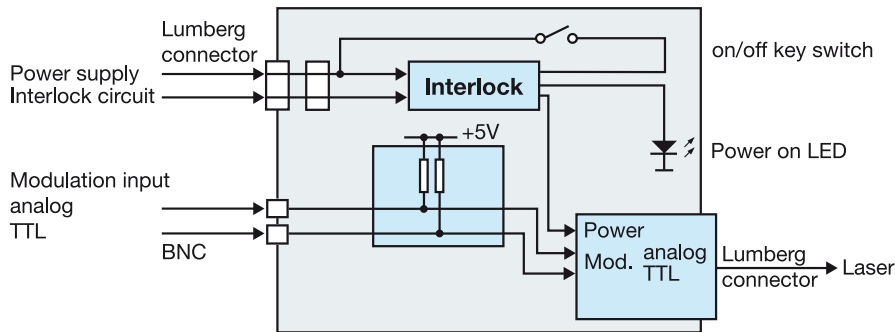
The switchbox is the interface between power supply and laser diode beam source. The integrated key switch and interlock mechanism ensure concordance with laser safety regulations. In addition, the inputs for analog and TTL modulation are made available via simple BNC connectors, so that the time-consuming wiring of a special adapter cable is avoided.

Without the switchbox Schäfter+Kirchhoff laser diode beam sources are off if either one or both modulation inputs are open. Internal pull-up resistors in the switchbox however ensure that the beam source is instantly ready for use without having to apply 5 V(DC) to the input ports just to turn it on. Once modulation is applied using the BNC connectors, the voltage of the modulation dictates if the laser is on or off.

The switchbox can be grounded using either a clamping screw or a 4 mm phone jack. With a grounded switchbox, the phone jack can also be used to connect an antistatic wristband or mat.

The shielded metal housing also isolates the contents from electro-magnetic irradiation. The operation of a laser source must conform to EN 60825 and this switchbox also provides the following safety features:

- Interlock chain for the remote deactivation of the laser
- Laser power-up is only possible using the key switch
- LED status indicator for "Laser ON"
- M4 thread for mounting
- Reverse voltage protection
- Grounding connector
- Separate modulation input connectors (BNC)



This is a printout of the page <https://sukhamburg.com/products/details/SBN040402> from 5/6/2024

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