

For laser laboratories Increases employees safety Warning lamp at every laser station Door lamp indicates overall- status



In many laser laboratories with invisible high-power lasers scattered radiation is a problem for employees working at different stations in the lab.

Beratrone's warning lamp system connects the different stations and reports operating laser to every station in the lab. Employees are informed on the laser status of every laser in the lab and can decide when to wear safety goggles.

In addition to the modules at each station a door module signalizes if a laser is operating in the lab. This is very important when entering the lab to decide whether to wear goggles or not.

The modules communicate with each other over a serial bus system at a level of 24 V to eliminate disturbing signals from lasers or other devices which may be not well shielded in laboratories.

Special attention was drawn to detection all states of abnormal operation. In normal operation only one LED is illuminated. Flashing LED, more than one LED at a time or no LED illuminated signalizes malfunction.



Picture 1: Top view

Lab equipment

Warning lamp system 0907



Supply unit	115 – 230 VAC / 50 – 60 Hz each module is supplied over the bus max. output per supply unit: 2 Amps
Inputs	two inputs either potential free or TTL
Communication Bus	serial
Max. current consumption per module (without warning lamp)	20 mA
Max. modules and warning lamps on one bus	do not exceed 2 Amps per supply unit multiple supply units possible (with regard to max. current on bus wiring)
Warning lamp connection	24 V warning lamp typical current 40mA to 70 mA two independent inputs for back-signals
Indication LED	Standby: green Global, Local: yellow
Storage temperature	0 °C to 60 °C
Operating temperature	0 °C to 40 °C
Dimension	105 x 72 x 25 mm ³
Weigth	Module 160 g without connectors Supply unit 825 g