PLS-201.L

Universal HF Electronic Control Gear for UV lamps
with interface to remote display panel

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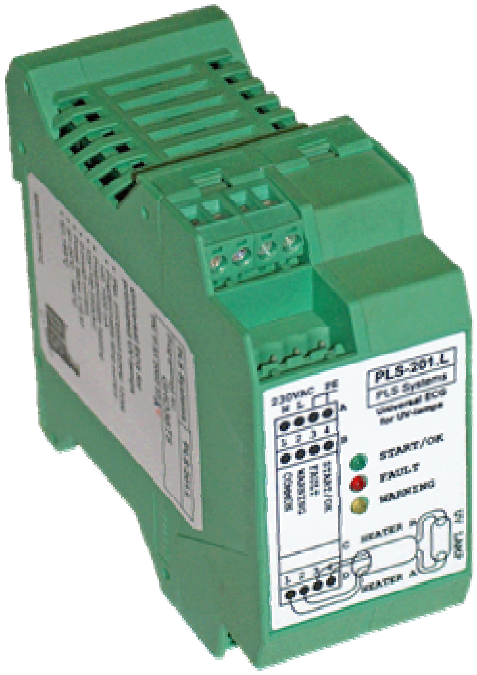
Description: Programmable HF Electronic Control Gear for UV lamps with variable output working in AC current source mode. Lamp state is displayed in front panel with 3 LED's. Unit is equipped with interface to remote panel. Local Start/OK, FAULT and WARN signals representing lamp state are transferred from several ECG working in parallel to remote display panel and displayed as global value.



Basic parameters of PLS-201.L

Type:	programmable HF ECG for UV lamps
Lamp type:	any UV lamp with nominal discharge current between 100…1000 mA
Preheating:	programmable intelligent preheating providing long tube life time and reduced solarization
Max. processed power:	120W
Supply voltage:	190-250VAC 50/60 Hz
Discharge current:	programmable between 100…1000 mA according to values required by UV lamp
Output mode:	AC current source mode
Ignition voltage:	≈800 V
Working frequency:	≈40 kHz, fixed
Life time:	100.000 h
λ-factor:	0.97
Inrush current	0 (no inrush)
Lamp fault detection:	all lamp faults detected in standby, preheating, heating, ignition and discharge mode
Signaling mode:	3 local LED's in front panel, interface to remote display panel
Signaling:	Fault, Warning (tube end-of- life), Start/OK
Assembly:	DIN rail
Dimensions:	45 x 99 x 115 mm
Weight:	300 g

Interface:	4-wire interface to remote display panel, with galvanic isolation
Interface parameters:	Open Collector outputs, 30V max, 50mA max
Result of UV lamp diagnostics:	
Start/OK blinking:	unit in lamp preheating mode and tube diagnostics
Start/OK lit:	discharge process maintained, correct lamp state
Start/OK and Warning lit:	discharge process maintained, warning detected (one of filaments broken, lamp parameters indicating end-of-life condition, etc.)
Start/OK and Fault lit:	unit failed to maintain discharge in lamp (lamp disconnected, wrong lamp connection, both filaments broken, lamp broken, etc.)

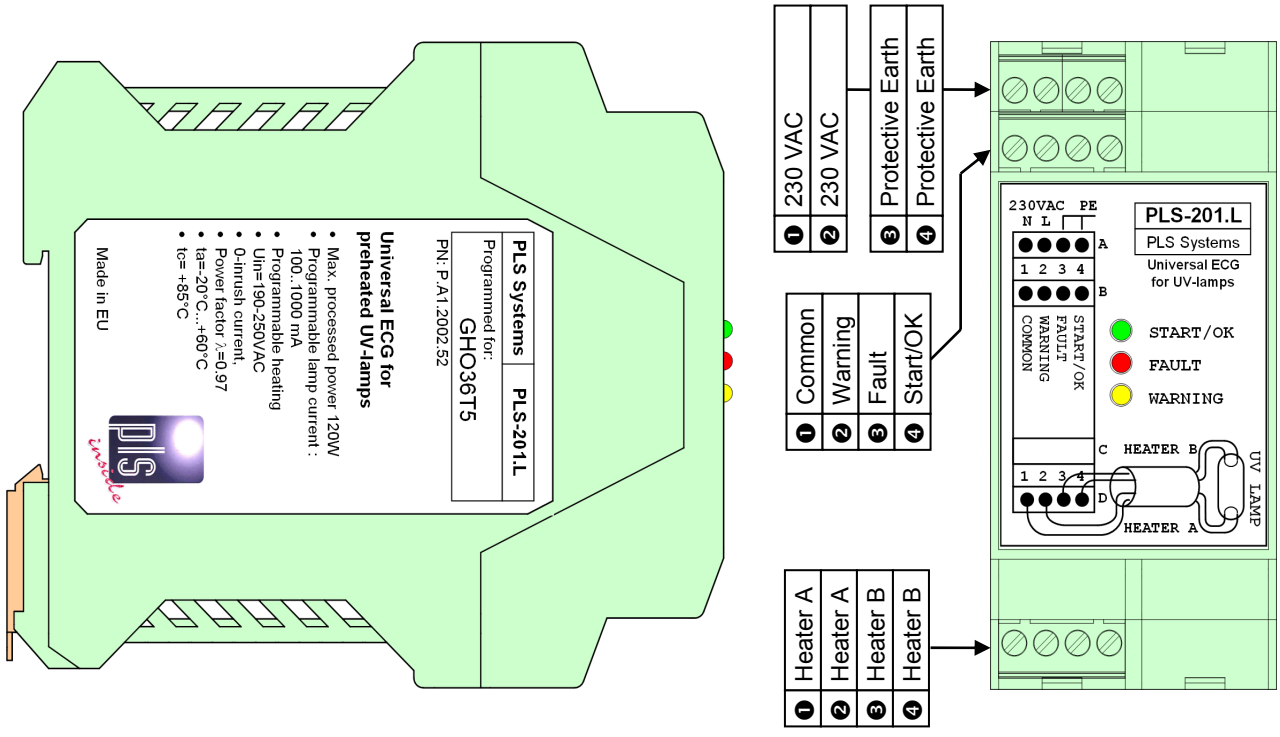


Fig. 1. Electronic control gear PLS-201.L with simple interface to local controller

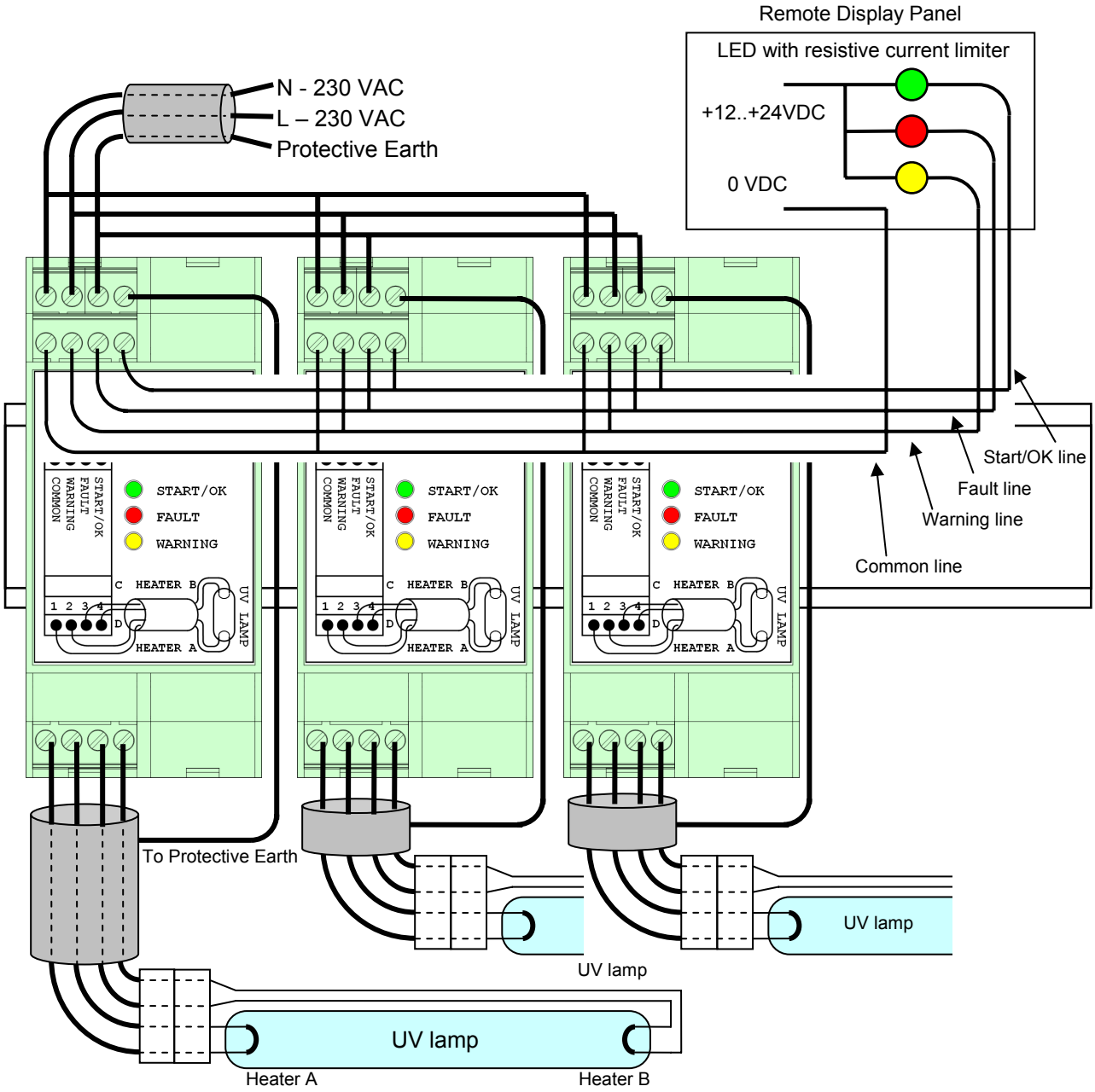


Fig. 2. Example of wiring diagram of PLS-201.L with remote panel

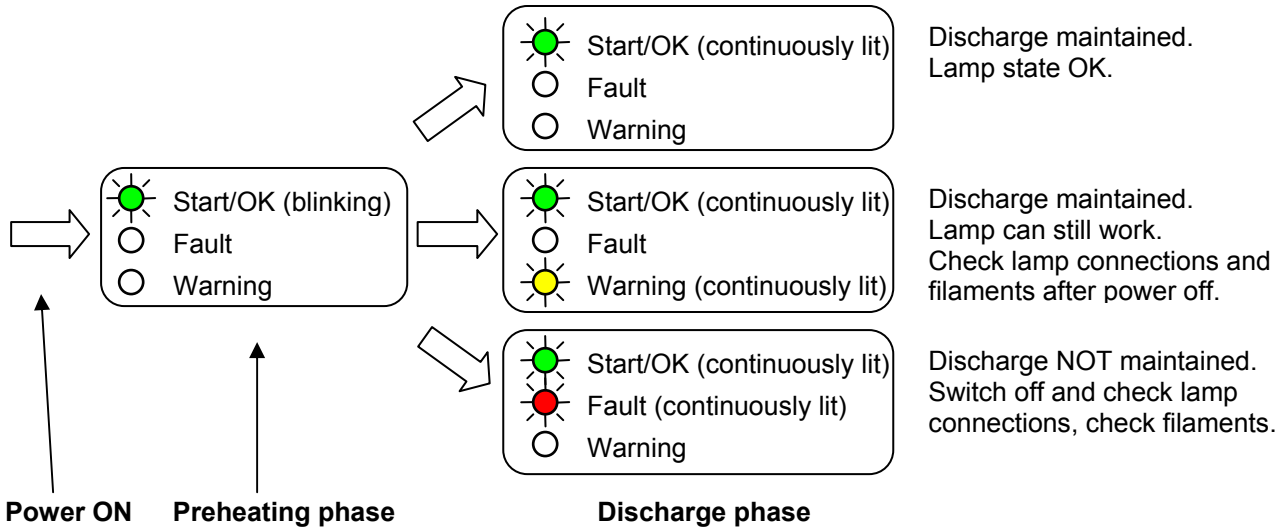


Fig. 3. Basic diagnostic procedure