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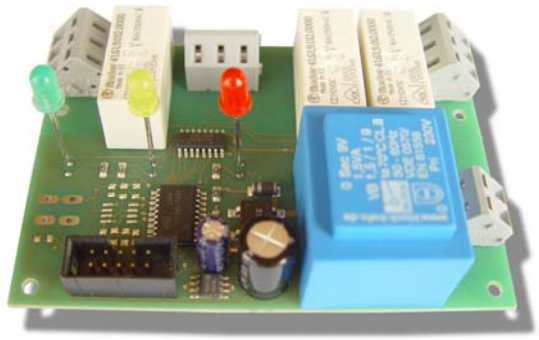
Monitoring of lamps' service life with switching function
Operating Time Counter – OTC 2

The OTC 2 evaluation unit controls service life by adding up UV lamps' operating hours. Service life level is indicated by LEDs. In addition, every LED is pictured by a potential-free contact being implemented as a changeover contact. These contacts may be used for signaling or switching operations.



Technical data of service life monitoring

Voltage supply	230 V AC (110v AC, 24 V DC o. 12 V DC possible
Special function	After lamp replacement the counter becomes resettable
Steady light (green LED)	at < 95% of warranted service life
Pre-alarm (yellow LED)	at > 95% of warranted service life
Main alarm (red LED)	Warranted service life has been exceeded
Additional function	Potential-free contact of every LED implemented as a 100 mA changeover contact

The OTC option works as a conventional operating hours' counter. As the operating voltage is applied, the internal counter starts working. Previously, however, the start-up procedure will be executed. LEDs will be flashing red, yellow and green, one after another for 1 second. This procedure controls that the LEDs are functioning. In addition, a specific interruption of the process will enable counter's resetting. For that purpose, the start-up process has to be interrupted twice in a row by purposely disconnecting the OTC during the yellow phase. When same is later reconnected, the counter will be reset. Resetting will be confirmed by a single blink of the green LED. Subsequently, the green LED must light up. The counter has been reset. In the unit's non-volatile memory area (EEProm) two time thresholds (t_{yellow} and t_{red}) may be saved. Should the updating time be $t > t_{yellow}$, the green LED will light up. Should the updating time exceed this threshold, the yellow LED will be activated. And should the second threshold t_{red} be exceeded, red will light up.