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SERVICE INFORMATION NO. 02B ENG

UPDATE INFORMATION org. to A: Wiring scheme included on page 2.

UPDATE INFORMATION A to B: Elimination of interlock switches

DATE: 15-01-2004

PRODUCT: All UV-lamps

SUBJECT: Elimination of thermo sensors and/or interlock contacts.

Both the thermo sensors, if present, and the electrical contacts (interlocks) between the top and bottom of the UV-lamp, are part of the security circuit in the lamp, which if broken (open lamp or overheating) generates an alarm to the control system.

Both the thermo sensors and the interlocks have been seen to generate unintended alarms, causing the lamp to turn off. The thermo sensors in the bottom housing can switch off due to hot reflections from the media, if this is bright white or covered with gold or silver. The interlocks could give an error if the brass pins are oxidized.

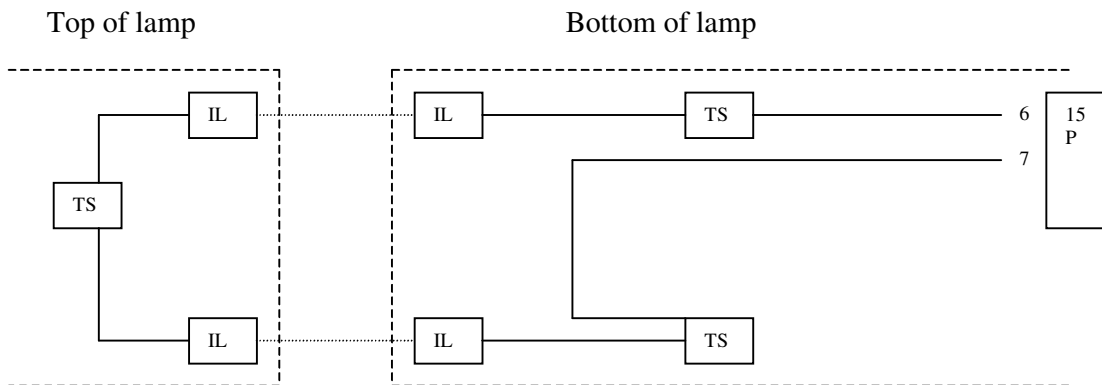
According to our UL approval, it is now possible to remove the interlocks completely, and inform the user to manually turn off the power, before opening the lamp. The interlocks has not been fitted in lamps from DPL for quite some time (new and repaired), and they should be removed in field at first service.

When the interlocks are removed, it is still possible to maintain the function of the thermo sensors in the bottom housing. If the thermo sensors for some reason are eliminated, another kind of device, i. e. lonflow, must be present in the system, preventing the lamps from overheating.

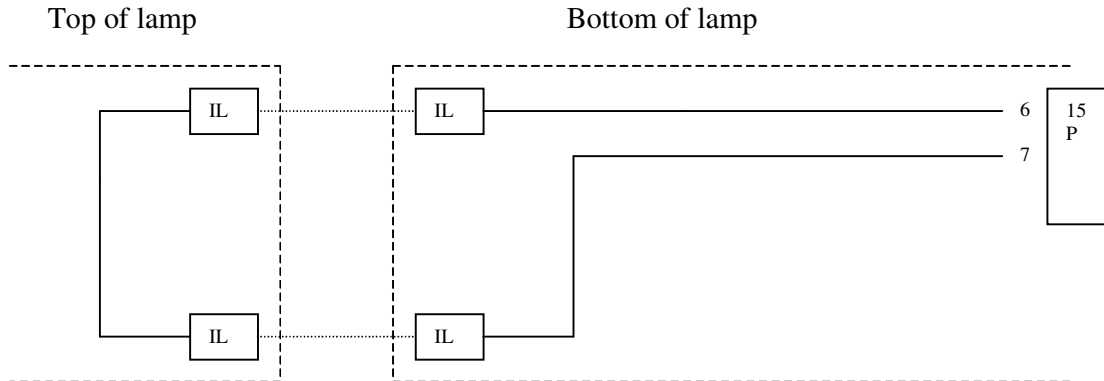
In order to eliminate the interlocks and thermo sensors, please follow the instructions below.

Electrical connections of the security circuit in lamps with thermo sensors.

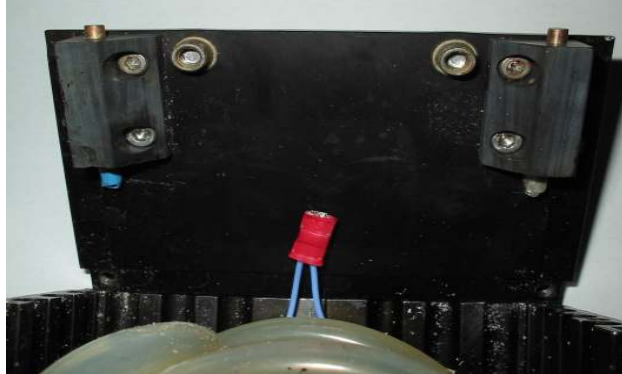
Description of short names in drawing: TS=thermo sensor. 15P=15 pin subD connector.
IL=interlock.



Electrical connections of the security circuit in lamps without thermo sensors.



Eliminating interlock switches on UV-lamps in field.



Lamps with thermo sensors. Disconnect the 2 wires from the interlocks in the bottom housing, and connect them to each other.



Lamps without thermo sensors. Cut the 2 wires connected to pin 6 and 7 on sub-D plug in an appropriate place, and connect them to each other. This procedure is also used to eliminate the thermo sensors in a lamp where the cooling is secured in another way, i.e. lonflow.



When the interlock has been disconnected, you must mark the lamp as shown above. Labels are available from DPL, please order code 50710.

Hans K. Nielsen 15-01-2004