

1 earth connector for build-in HID drivers



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1. Introduction

This document describes the application of only 1 earth connector on our HID-drivers.

2. Version management

19-07-2010: Version 0.1

Initial document

3. What do the standards say?

Below the relevant part of the generic safety standard for lamp control gear is copied:

61347-1 © IEC:2000+A1:2003

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9 Provisions for protective earthing

Earthing terminals shall comply with the requirements of clause 8. The electrical connection/clamping means shall be adequately locked against loosening, and it shall not be possible to loosen the electrical connection/clamping means by hand without the use of a tool. For screwless terminals, it shall not be possible to loosen the clamping means/electrical connection unintentionally.

Earthing of lamp controlgear (other than independent lamp controlgear) via means of fixing the lamp controlgear to earthed metal is permitted. However, if a lamp controlgear has an earthing terminal, this terminal shall only be used for earthing the lamp controlgear.

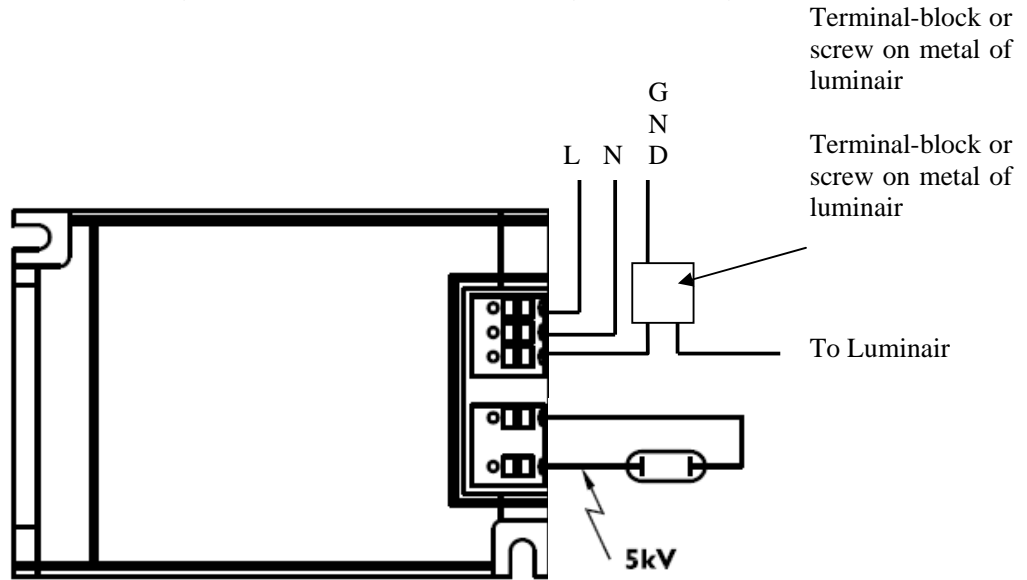
According this standard, a luminaire that is equipped with a driver that is build into the luminaire may not be connected to earth via this driver.

The luminaire must be earthed directly from the mains cables, not via the build-in driver.

Reason for this is that if the driver has to be replaced, one can not guarantee the proper earthing of the luminaire anymore.

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The earth-wiring should be connected according this drawing:



(Line and Neutral can also be exchanged)

However, the second earth connection may be used to ground parts of the luminaire that cannot be touched from the outside. For example the reflector can be connected to earth for EMI-purposes.

4. How to connect the additional wire to the reflector ?

Since some of our drivers has only 1 earth-terminal, a twin-ferrule can be used to connect the additional wire (for example connecting the reflector) to this terminal. Below you find a picture of a twin-ferrule:



5. For more information

Please contact your local sales representative.
Check OEM application guide for general information about electronic gear.
Visit our web-site <http://www.lampsandgear.philips.com>