

Datasheet

HPS Terminator

General

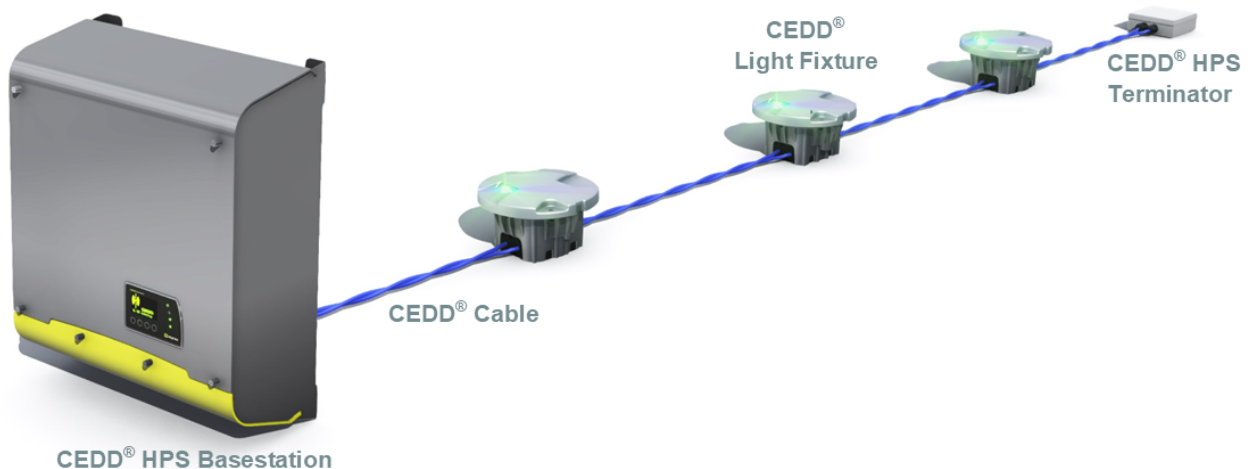
Because the number of CEDD[®] fixtures and the length of the CEDD[®] cable in a typical setup are variable, the characteristic impedance of the CEDD[®] AGL system varies. This causes signal reflections at the end of the cable. These reflections can produce interference or power loss in the CEDD[®] AGL system. To prevent these reflections a CEDD[®] HPS Terminator is placed at the end of every CEDD[®] cable.

The CEDD[®] HPS Terminators delivered with a CEDD[®] AGL system are adjusted for the characteristic impedance in that system, and are not interchangeable between CEDD[®] AGL systems. The CEDD[®] HPS Terminator also acts as a watertight seal of the CEDD[®] cable end.

The CEDD[®] HPS Terminator is connected to the CEDD[®] cable during in-field installation. The exact location will be somewhere in or near the pavement. After installation the CEDD[®] HPS Terminator does not need any maintenance.

Position in the CEDD[®] AGL System

A typical CEDD[®] AGL system consists of a CEDD[®] HPS Basestation that provides power to the CEDD[®] AGL LED fixtures, and bidirectional communication to all the CEDD[®] AGL LED fixtures connected to the CEDD[®] cable. A CEDD[®] HPS Terminator at the end of each CEDD[®] cable matches the characteristic impedance of the CEDD[®] cable with the connected CEDD[®] AGL LED fixtures.



Standards

The CEDD[®] HPS Terminator is compliant with the following standards:

- IEC 61010-1:2010/A1:2016 (Third Edition)
- EN 61010-1:2010/A1:2019 (Third Edition)

In addition, creepage and clearance (clause 6) are checked and a test case performed according to the more stringent IEC 60950-1:2005/AMD2:2013.

Specifications

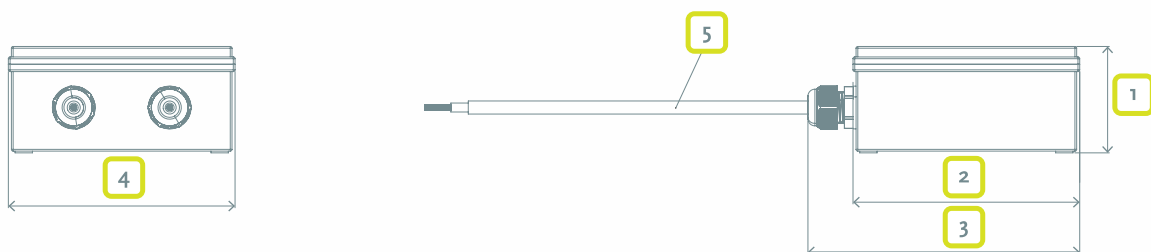
CEDD[®] HPS Terminator

Description	Values
Ambient operating temperature	-20 °C – +85 °C @ $I_{CEDD} = 3.5 A_{rms}$ -20 °C – +55 °C @ $I_{CEDD} = 5.0 A_{rms}$
Relative operating humidity	0 ... 100 %
Installation method	in-field
Maintenance	maintenance-free
Mounting	within 12" shallow base or metal enclosure
Cable connection	cable is not detachable
Ingress protection degree	IP 68 (IEC 60529)
Cable current	0 to 5 A_{rms} Typical at 3.5 A_{rms} and typical at 20 kHz
Maximum voltage	650 V_{rms}

Dimensions

CEDD[®] HPS Terminator

Pos.	Description	Values
1	Height	60 mm
2	Length without cable glands	130 mm
3	Length with cable glands	≤ 162 mm
4	Width	130 mm
5	CEDD [®] cable	950 mm



Accessories

- 12" shallow base
- 12" cover plate

Packing data

CEDD® HPS Terminator

Packing material	Dimensions	Gross weight	Net weight
Cardboard box	310 x 310 x 80 mm (approx.)	2.0 kg	1.6 kg

Installation

For the installation of the CEDD® HPS Terminator please see the manual:

05 CEDD HPS Terminator Installation & Maintenance Manual 03-70091

Document Information

Name : 04_CEDD_HPS_Terminator_03-70055

Version : V2.0

Language : English (Original)

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Company profile:

TKH Airport Solutions is an innovator in airfield ground lighting, offering a complete range of LED AGL products. We build upon the know-how from a long and successful tradition of pioneering developments in the AGL and connectivity industry. Being part of the TKH Group, our company can build on a history of more than 90 years in smart connectivity, energy distribution and AGL.

More information:

TKH Airport Solutions
sales@tkh-airportsolutions.com
www.tkh-airportsolutions.com
+31 (0)53 57 414 56

Visiting address:

Elektrostraat 17
7483 PG Haaksbergen
The Netherlands



member of the TKH Group <