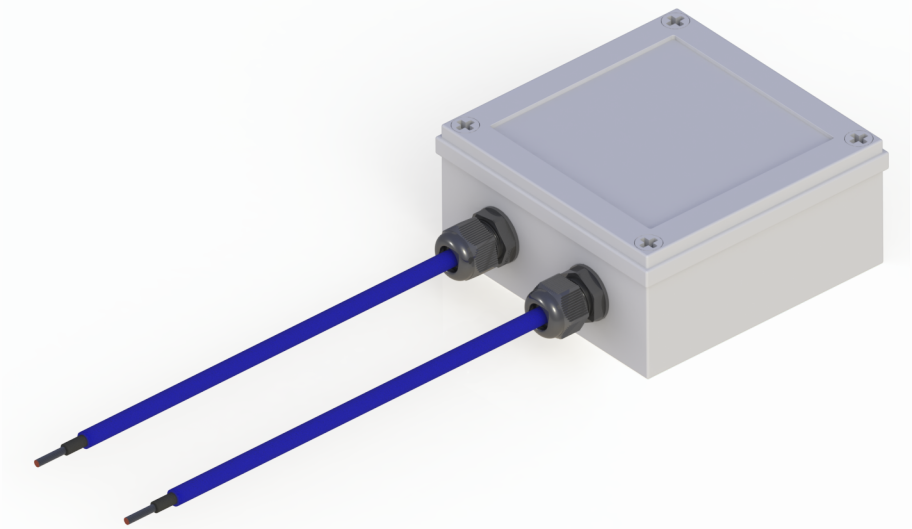
TKH AIRPORT SOLUTIONS



Datasheet

Terminator

CEDD AGL
Airfield Ground Lighting

03-70055
V2.1

General

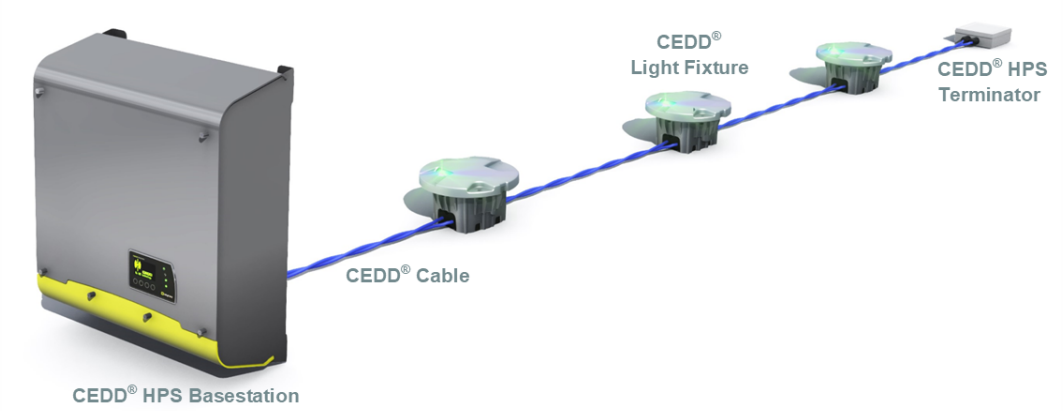
Because the number of CEDD fixtures and the length of the CEDD cable in a typical setup are variable, the characteristic impedance of the CEDD AGL system varies. This causes signal reflections at the end of the cable. These reflections can produce interference or power loss in the CEDD AGL system. To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

The CEDD 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 Terminator also acts as a watertight seal of the CEDD cable end.

The CEDD Terminator is connected to the CEDD cable during in-field installation. The exact location will be in or near the pavement. After installation the 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.



A CEDD AGL system can have multiple Basestations that communicate with one or multiple Masters.

Standards

The CEDD 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.

Product markings: CE, cDEKRAus

Specifications

CEDD HPS Terminator

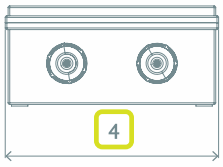
Description	Values
Ambient operating temperature	-40°C (40°F) / +75°C (+167°F) @ I_{CEDD} = 3.5 A_{rms}
Relative operating humidity	0 … 100 %
Installation method	in-field
Maintenance	maintenance-free
Mounting	within 12" shallow base or metal enclosure
Cable connection	cable is not detachable
Ingress Protection Degree	IP 68 (IEC 60529)
Pollution Degree	3 (IEC 61010-1)
Cable current	0 to 5 A_{rms} Typical at 3.5 A_{rms} and typical at 20 kHz
Maximum voltage	650 V_{rms}

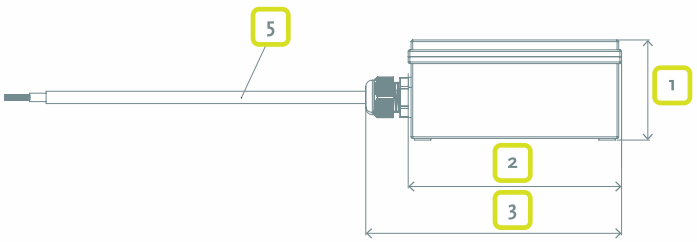
In case not mentioned, other specifications are compliant with IEC 61010-1 section 1.4.1 Normal Environmental Conditions.

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

The CEDD HPS Terminator is intended for outdoor use and suitable for use in wet locations.

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

05 CEDD HPS Terminator Installation & Maintenance Manual 03-70091

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TKH AIRPORT SOLUTIONS

Company profile:

TKH Airport Solutions offers a complete range of LED-based airfield ground lighting products that are designed to be easy to install, operate, and maintain, and are compliant with international aviation standards.Our products meet the needs of our customers and contribute to a better future for the aviation 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.

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