

TLACS' Underpass Dimming Enclosure (UDE)

General Description

The UDE is an integrated control cabinet specifically designed for underpasses or small tunnels where lighting control is required. The UDE is used in a TLACS-U configuration.

The unit dims LED luminaires through a Local Product Controller (LPC) installed in the luminaires and monitors its time usage for better management. Up to 12 stages of dimming can be provided to allow lighting adjustment. It reports the status and any predetermined alarm of the luminaires. The UDE supports 2 sensors simultaneously and comply to a variety of communication protocol such as MODBUS TCP/IP.

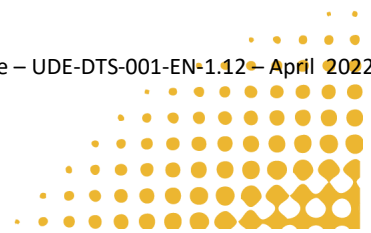
Two main modes of operation are supported, automatic and manual.

- In **Automatic** mode, the UDE controls the light level based on a light sensor with up to 12 stages.



Features

- Self-commissioning by an electrical contractor with an intuitive Web based user interface for configuration
- Communication over power line to LPCs, LCAM luminance photometer and/or ILCAM2 illuminance photometer
- Manual control through HOA
- Ethernet or fiber optic connection
- Control of up to 256 LPCs per UDE
- Communication failure detection
- For 100-480 VAC powerline network
- Input connections for external sensors (RS-485 Luminance and/or illuminance Photometer and/or any other standard photocell)



Specifications

Mechanical

Item	Description
Enclosure	Painted steel or Stainless Steel
Dimensions (overall)	Length: 750 mm (30 in.) Width: 600 mm (24 in.) Depth: 300 mm (12 in.)

Electrical

Item	Description
Input voltage (nominal)	120-480 VAC (as per the selected part number)
Input frequency	50/60 Hz
Consumption	Max 325 W

Interface

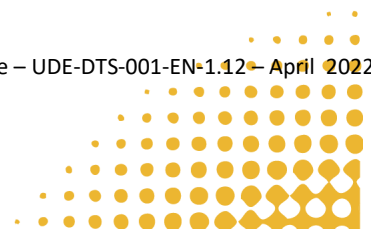
Parameters	Description
Ethernet	RJ-45 Interface 10/100 Mbit/s
Fibre optic	Single or Multimode (LC or SC)

Environmental

Parameters	Units	Min.	Max.
Operating temperature	°C	-20°C	60°C
	°F	-4°F	140°F
Storage temperature	°C	-30°C	80°C
	°F	-22°F	176°F
IP rating	IP 66		

Standards

Item	Description
Safety standards	CAN/CSA-C22.2 No. 14 UL 508A (2nd Edition)



Product Ordering Information

TLACS-UDE product identification follows the chart diagram below



Segment name (left to right)	Segment value	Description
Model	UDE	Underpass dimming enclosure
Enclosure	P	Painted steel
	S	Stainless steel
External network	1	RJ-45
	2	Fiber optic single mode, SC
	3	Fiber optic multi mode, SC
	4	Fiber optic single mode, LC
	5	Fiber optic multi mode, LC
Sensor configuration	0	No sensor
	1	1 x Photocell (dry contact)
	2	2 x Photocell (dry contact)
	3	1 x RS-485 LCAM or ILCAM
	4	2 x RS-485 LCAM or ILCAM
	5	1 x Powerline LCAM or ILCAM2
Power Line channel	1	220-277 VAC L-N
	2	400-480 VAC L-L
	3	347 VAC L-N
	4	120 VAC L-N
	5	240 VAC L-L

For more information, please contact us at info@nyx-hemera.com

875 Charest O. suite 210
Quebec, Qc, G1N 2C9
Canada

+1 418-977-7788
+1 418-977-7798

Specification subject to change without notice – UDE-DTS-001-EN-1.12 – April 2022

