

## TLACS' Underpass Dimming Enclosure (UDE)

### General Description

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

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



### Features

- Self-commissioning by an electrical contractor with an intuitive Web based user interface for configuration
- Communication over power line to LPCs;
- Manual control through HOA;
- Ethernet or Fiber Optic connection;
- Control of up to 256 LPCs per UDE;
- Communication failure detection;
- Work in a 120-277 VAC powerline network (480 VAC optional).
- Inputs for external sensors (Luminance and/or illuminance Photometer and/or any other standard photocell)
- Communication
  - MODBUS TCP/IP
  - Local Remote Control



## 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 (depending on the selected power line channel)
Input Frequency	50/60 Hz
Consumption	Max 325 W

### Interface

Parameters	Description
Ethernet	RJ45 Interface 10/100 Mbit/s
Fibre Optic	Single or Multimode (LC or SC)

### Environmental

Parameters	Description
Operating temperature	-20°C to 60°C
Storage temperature	-30°C to 80°C
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

UDE - [ ] - [ ] - [ ] - [ ]

**Enclosure**  
P = Painted Steel  
S = Stainless Steel

**External Network**  
1 = Ethernet (RJ-45)  
2 = Fiber Optic Single Mode (SC connector)  
3 = Fiber Optic Multi Mode (SC connector)  
4 = Fiber Optic Single Mode (LC connector)  
5 = Fiber Optic Multi Mode (LC connector)

**Sensor Configuration**  
0 = No sensor  
1 = Photocell  
2 = 2 X Photocell  
3 = 1 X ILCAM or LCAM  
4 = 2 X LCAM or ILCAM

**Power Line Channel**  
1 = Neutral-Phase (220-277 VAC at 50/60 Hz)  
2 = Phase-Phase (400-480 VAC at 50/60 Hz)  
3 = Neutral-Phase (347 VAC at 50/60 Hz)  
4 = Neutral-Phase (120 VAC at 50/60 Hz)  
5 = Phase-Phase (240 VAC at 50/60 Hz)

