

## Power Line Illuminance Photometer (ILCAM2)

### General Description

The ILCAM2 measures the level of illuminance within the road tunnel bore to ensure interior illumination levels are being continuously maintained, to improve lighting conditions for drivers. It communicates the above information to the Lighting Control Cabinet (LCC) through power line communication using the existing power cables.

The ILCAM2 uses a specially designed, highly light-sensitive photocell, filtered to provide a spectral response close to that of the average human eye, to react to changes in light levels within the tunnel environment.

The ILCAM2 measures the illuminance over a standard range of 0-20,000 lux, (max.), which can be scaled to meet user requirements.



### Features

- CIE and IES Approved measurement technology
- Accurate measurement of tunnel illuminance within the road tunnel bore
- Designed specifically for road tunnels
- Rugged painted stainless steel 316 construction
- Simple installation/operation
- Communication with LCC for remote diagnostic and configuration
- Silicon photo diode,  $V\lambda$  filtered for spectral response
- Operational temperature range from  $-30^{\circ}\text{C}$  to  $+70^{\circ}\text{C}$
- NEMA 4x / IP66 rating

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

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

Specification subject to change without notice – ILCAM2-DTS--EN-1.2 April 2021



### Specifications:

#### Measurement Range

Parameter	Units	Min.	Max.	Comment
Detector				Silicon photo diode, Vλ filtered lx 0 20,000
Measurement Range	Lx	0	20,000	Can be scaled within this range
Resolution	Lx		1	Display resolution
Accuracy	%	-1	+1	Lux
Damping	seconds	1	100	Default setting 10 s.

#### Power

Input Voltage (Nominal)	VAC	120	480	As per selected part number
Voltage Tolerance	% -	-10	+10	
Nominal Current Consumption	A		0.5	
Power Up Current Consumption	A		1.5	

#### Interface Option

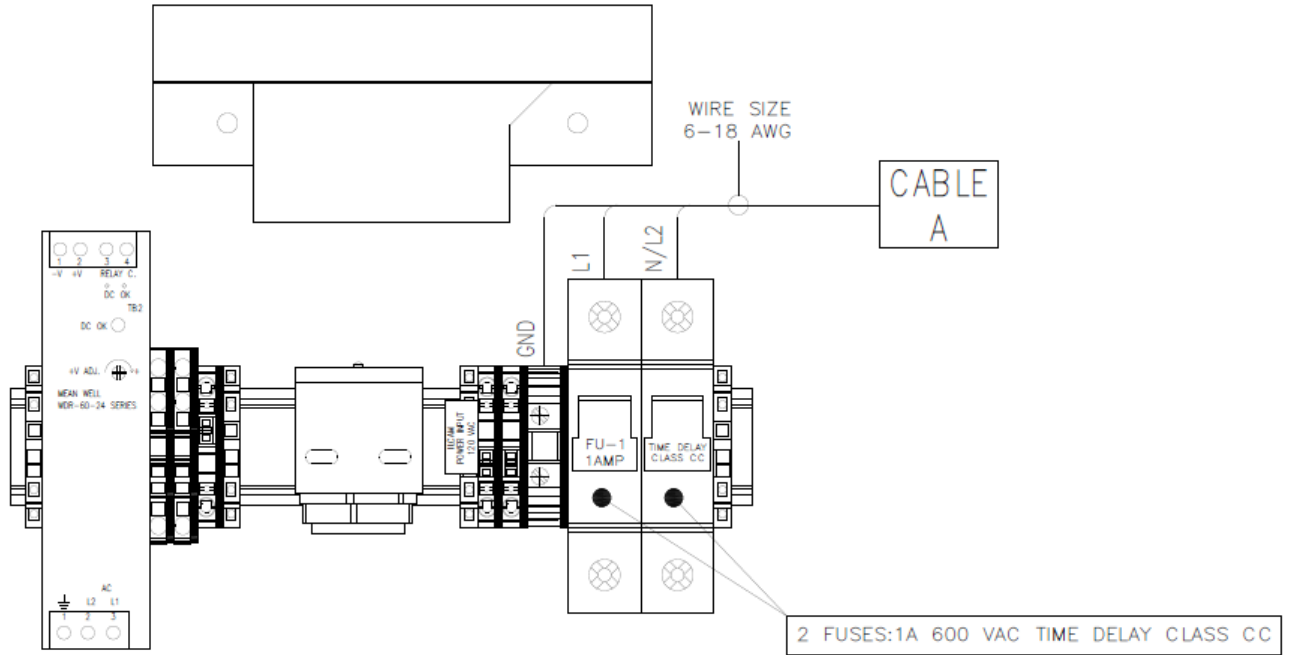
Supported Interface connection				Power Line Communication
--------------------------------	--	--	--	--------------------------

#### Physical

Ingress Protection		NEMA 4X (IP 66)		
Operating Temperature	°C	-30	+60	
Storage Temperature	°C	-30	+70	
Operating Humidity	%	0	100	
Regulatory Compliance				89/336/EEC (Electromagnetic Radiation) 73/23/EEC (Low Voltage)
Enclosure Material				Powder coated stainless steel 316 (Traffic Yellow - RAL 1023)
Dimensions	mm inches	254 X 305 X 153 10 X 12 X 6		W x H x D
Weight	Kg Lbs	8.2 18		
Warranty	Months	24		Return to base warranty. Extensions available



**Wiring Diagram**



EXTERNAL CONNECTIONS  
WIRE SIZE MUST VALIDATED ACCORDING  
TO LOCAL REGULATIONS AND WIRE  
LENGTH

MODEL	CABLE #	CIRCUIT	TYPE
ILCAM2-1	A	110VAC TO 240VAC 50/60Hz	6-18 AWG
ILCAM2-2	A	200VAC TO 480VAC 50/60Hz	6-18 AWG

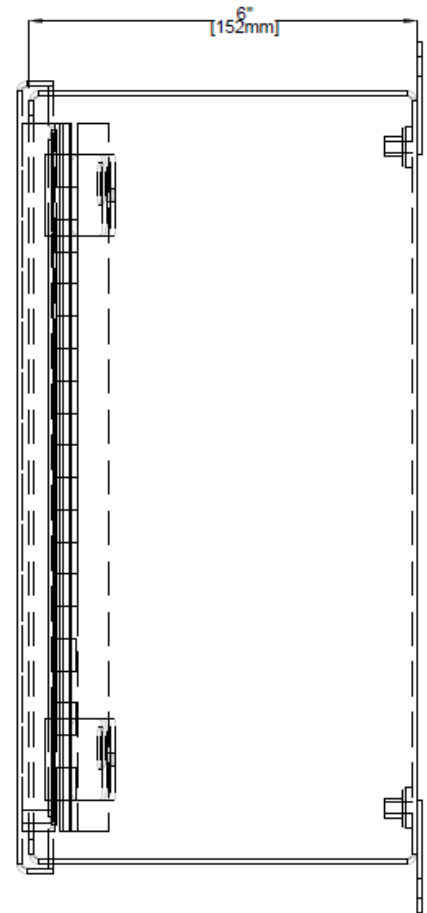
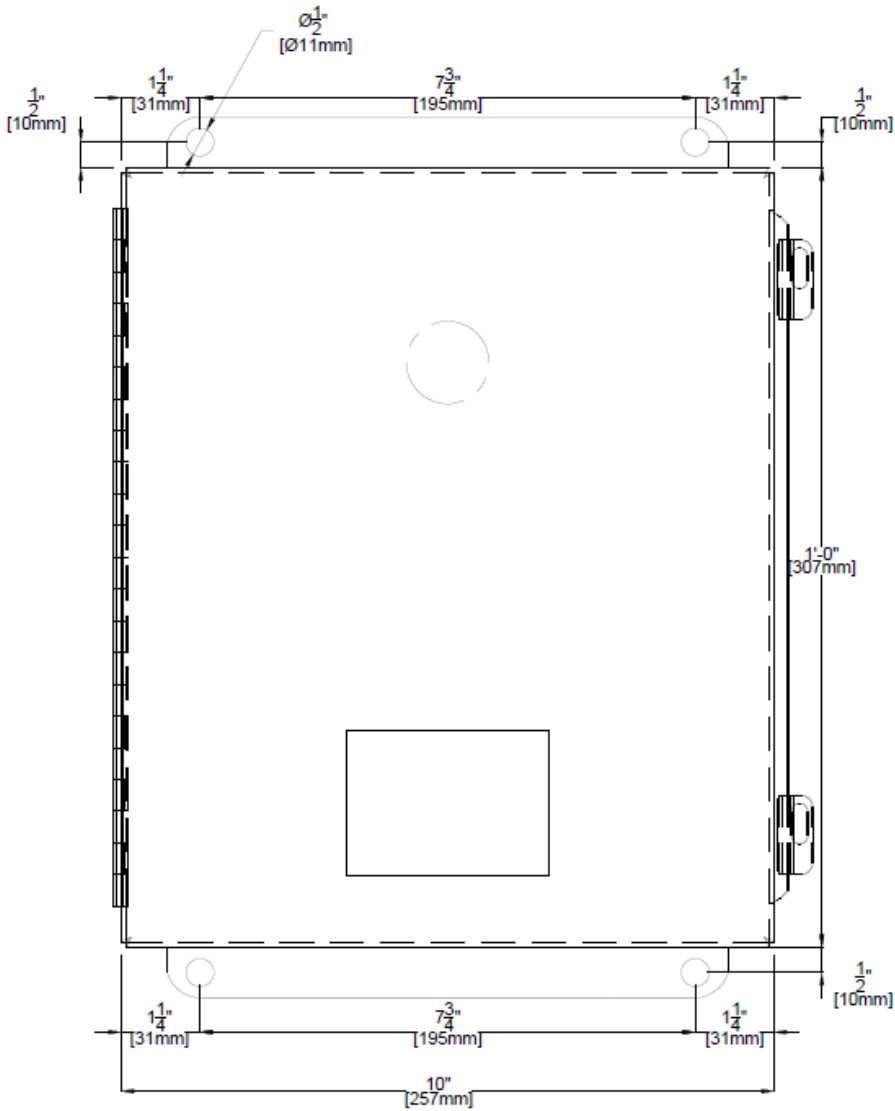
875 Charest O. suite 210  
Quebec, Qc, G1N 2C9  
Canada

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

Specification subject to change without notice – ILCAM2-DTS--EN-1.2 April 2021



**Mechanical Dimensions**

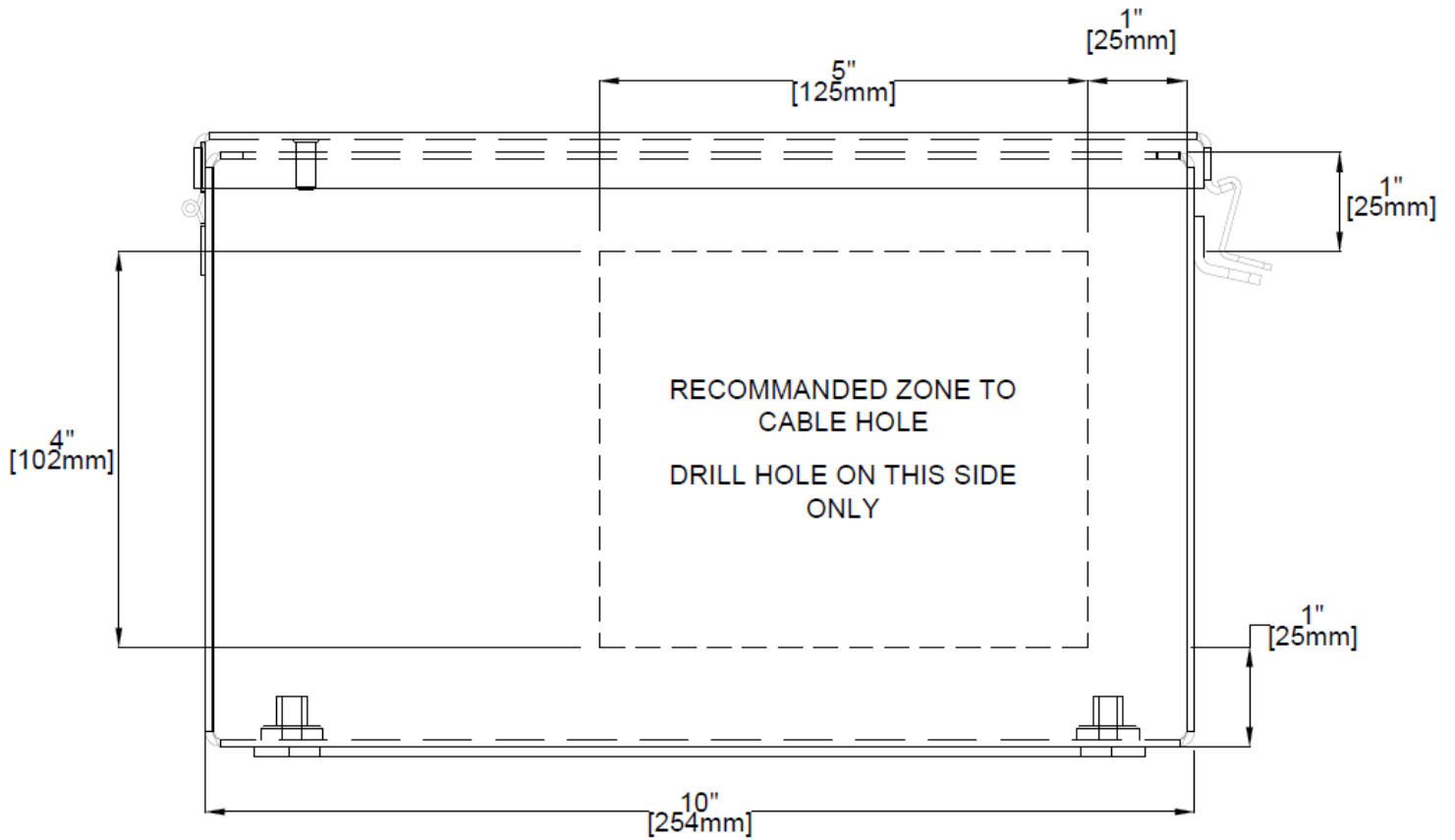


875 Charest O. suite 210  
Quebec, Qc, G1N 2C9  
Canada

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

Specification subject to change without notice – ILCAM2-DTS--EN--1.2 April 2021



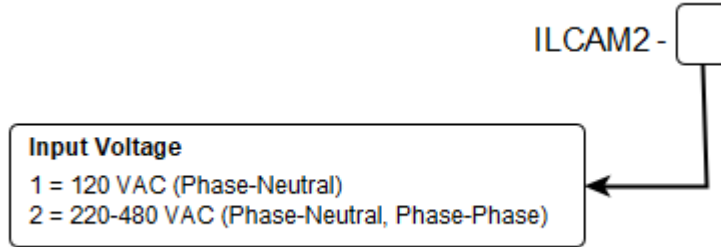


BOTTOM VIEW



## Product Ordering Information

ILCAM2 product identification follows the chart diagram below.



**Note:**

Different options and configurations available. For any further information, please contact [info@nyx-hemera.com](mailto:info@nyx-hemera.com)

