

ILLUMINANCE Photometer Power Line

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 lighting controllers included in LCC, UDE and ADE cabinets, 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 due to luminaires aging and dust accumulation between cleaning 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 and characteristics

- Accurate measurement:
 - Tunnel illuminance within the road tunnel bore, maintaining constant lighting in tunnel through lighting controllers
- CIE and IES Approved measurement technology
- Designed specifically for road tunnels
- Rugged painted stainless steel 316 construction
- Simple installation/operation
- Power line communication for remote control, monitoring, and diagnostic
- Silicon photo diode, Vλ filtered for spectral response
- NEMA 4x / IP66 rating

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\$ +1 418-977-7788 **■** +1 418-977-7798 Specification subject to change without notice – ILCAM2-DTS--EN-1.3 March 2022





Specifications

Measurement Range

Parameter	Units	Min.	Max.	Comment
Detector				Silicon photo diode, Vλ filtered Ix 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.

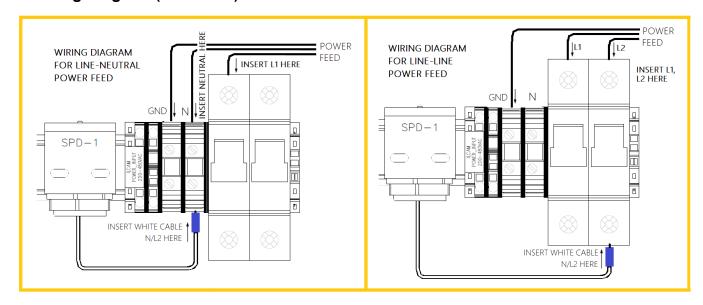
Electrical

ltem		Description
Input voltage (nomina	al)	120 VAC 220-480 VAC
Frequency (nominal)		50-60 Hz
Load rating	120 VAC 220-480 VAC	Steady state current: 0.5 A Peak current: 0.7 A

Interface Option

Item	Description
Supported Interface connection	Power Line Communication

Wiring Diagram (ILCAM2-2)



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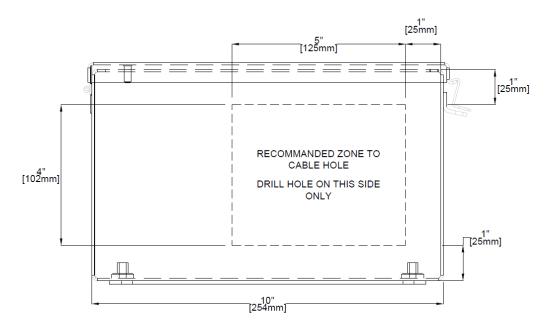




Environmental Conditions

Item	Unit	Min	Max
Operating ambient temperature	°C	-10	40
Operating ambient temperature	°F	14	104
Storage temperature	°C	-30	70
	°F	-22	158
Humidity	0-95% non-condensing		

Drilling Information

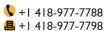


BOTTOM VIEW

Physical

ltem		Description
Ingress Protection		NEMA 3R
Enclosure Material		Powder-coated stainless steel 316 (Traffic Yellow - RAL 1023)
Dimensions	mm	254 × 305 × 153
W×H×D	inches	10 × 12 × 6
Weight	kg	8.2
	lbs	18

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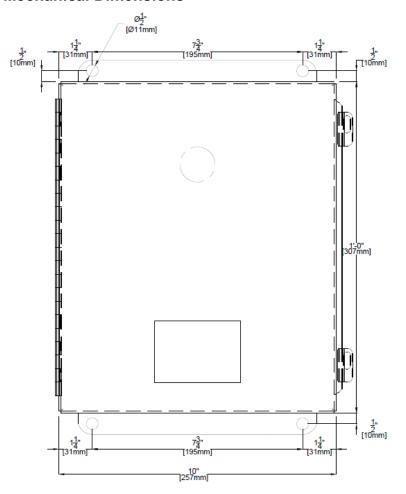


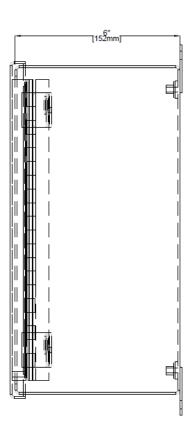




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Mechanical Dimensions





Product Ordering Information



Segment name (left to right)	Segment value	Description
Model	ILCAM2	Powerline illuminance meter
Input voltage	1	120 VAC phase-neutral
	2	220-480 VAC input voltage, phase-neutral or phase-phase

Note: Different options and configurations available. For further information, please contact info@nyx-hemera.com

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