



XEL-XLVD-120-A01

Low Voltage Detector Device

Light Shield Family
120V Rated

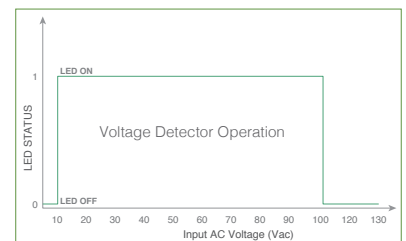
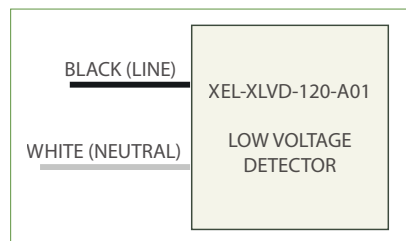
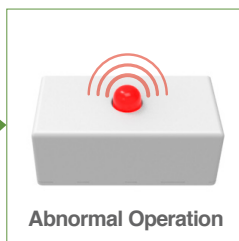
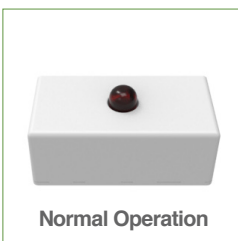


- ✔ Designed to provide a visual indication of abnormal voltages on a light pole
- ✔ 4kV/2KA Surge Rating ensures reliable long term operation
- ✔ UL Wet Rated
- ✔ UL Accessory rated (cUL1598) for easy in-fixture certification
- ✔ Highly Visible-High Brightness fault detection LED
- ✔ Detects & indicates low line conditions as low as 10V_{AC}
- ✔ Low current operation for maximum energy efficiency
- ✔ Warranty: 5 years



LVD Operation

The XEL-XLVD-120-A01 Low Voltage Detector is designed to provide a visual indication of abnormal voltages that are reaching the LED Driver/ Wiring in the LED Fixtures and indicator. This visual indication can provide maintenance crews with warnings of wiring, connection, and other electrical issues that may result in improper operation of the fixture, identification of improper setup or potential safety issues.

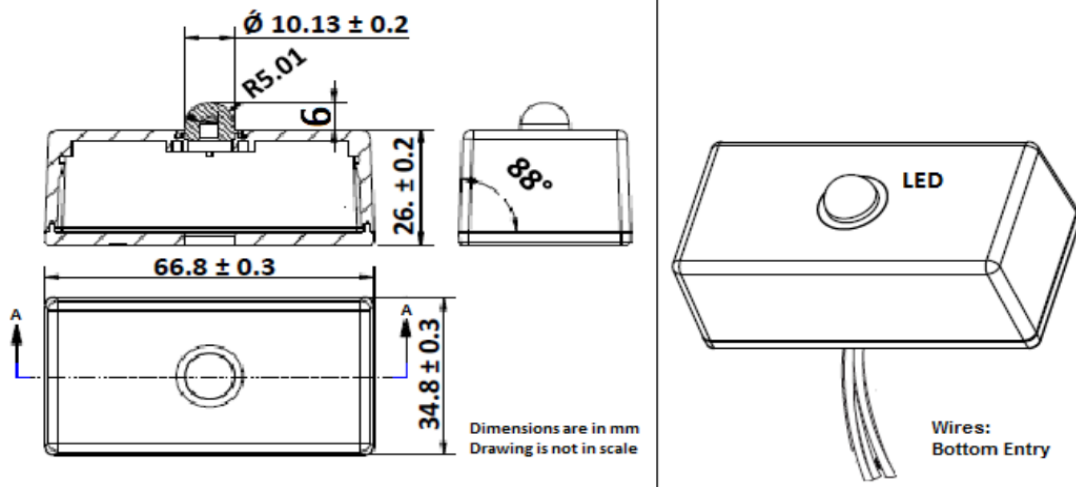


Warnings

1. The XEL-XLVD-120-A01 is a low voltage detector that directly measures the voltage directly on the L-N line connections. It does not measure stray voltage.
2. **Visual Indication is only provided if the unit is powered, operating properly, and wired properly.** Conditions may exist where the voltage detector is not able to provide proper or fault indication.
3. Proper operation should be verified as part of a regular maintenance program, since this device is designed to have the LED OFF during normal operation.
4. This device is **NOT** designed as a safety critical component for any system and should not be relied upon to indicate any safety critical condition.
5. This device is **NOT** designed to detect "stray voltage".

Mechanical Drawings-Dimensions

(not to scale)



Case

Material	ABS (Plastic)
Unit Weight	94g
Dimensions	67mm x 35mm x 26mm
Mounting	Double sided tape*

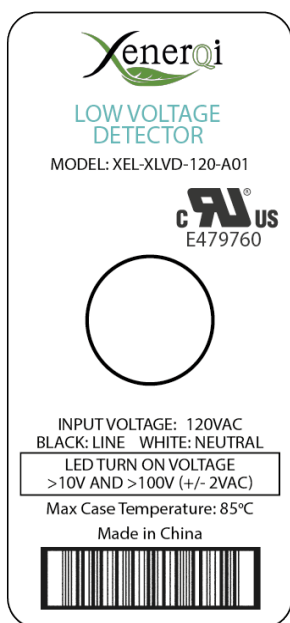
Wire Dimensions

Wire Gauge	18AWG (UL1430)
Wire Length	200mm (±20mm)
Strip Length	9.5mm (3/8")
UL Type	UL1430 Double Tinned, 105°C, 600V

*outdoor wet rated adhesive tape required, not provided.

Labels-Details

Layout



Specification Data

Input	Voltage Range	0 ~ 140 V _{AC} (Nominal 120 V _{AC})
	Frequency Range	57 ~ 63Hz
	Turn on time	< 3 Seconds (with voltage in fault indication range)
Voltage Detection Range ^{*1}	Nominal Operation (LED OFF)	Input Voltage: > 100V _{AC} (+/-2 V _{AC})
	Fault Indication Range (LED ON)	Input Voltage: > 10 ~ 100V _{AC} (+/-2 V _{AC})
	Potential Fault, No Indication (LED OFF)	Input Voltage: < 10V _{AC} (+/-2 V _{AC})
Power Consumption	Nominal	< 0.5W
	Fault Indication Range (LED ON)	< 0.75W
Environment	Working Temperature	-40 ~ +70°C (Ambient) Case Hot Spot Rated for -40 ~ +85°C
	Working Humidity	< 90% RH Non-Condensing
	Storage Temperature	-40 ~ + 85°C
	Vibration	1G (Nominal)
	Lifetime	> 50,000 Hours @ Max Working Temperature
	Ingress Protection	IP66 (UL Wet Rated)
Safety & EMC	Safety Standards	UL1598 (Lighting Accessory)
	Surge Electrical Immunity	4KV/2KA, L-N Testing as per IEC61000-4-5

*1: Range at which the LED Indicator will light.

*2: This is to ensure that current draw in the off condition meets suitable levels.

For more detailed information about this product, please contact XenerQi (sales@xenerqi.com)

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