

# Live Line Indicator

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The X0276 Live Line Indicator (LLI) module is a non-contact, 3-phase, voltage sensing unit used in sensing the presence of voltage on a phase. The presence or absence of voltage is indicated via the front LED's or externally connected panel mount LED's.

Due to the non-contact method of detecting voltage, this unit should not be used to prove voltage is present or absent in the determination of safety or life critical situations.

## Ordering Information

Part Number	Description
X0276	Live Line Indicator (LLI)
X0276-BR	Live Line Indicator (LLI) with battery removed
X0462-C	Cover 48Q IP56

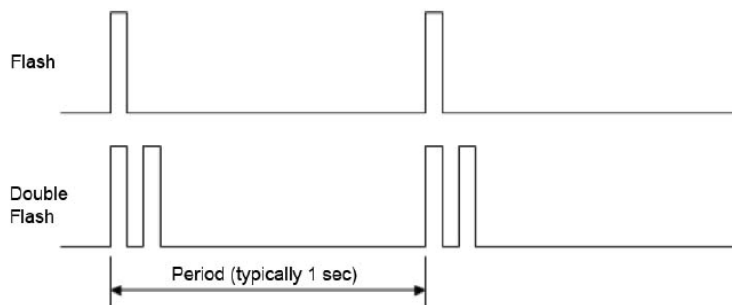
## Technical Specifications

<b>Inputs</b>	6 way terminal for non-contact inputs coupled to each phase	
	DC Power Supply	+9 to +28V DC
		Optimal relay operation +18 to +28V DC
	Internal 4.8V Ni-mh rechargeable battery to keep unit operational for 8 hours in case of external DC supply failure	
<b>Outputs</b>	Relay 1: COM terminal and a NC and NO contact	Will release when 1 or more phases are detected as not available
	Relay 1: COM terminal and a NC and NO contact	Will release only when all 3 phases are detected as not available
<b>Size</b>	48Q case: 48mm x 48mm x 82mm	
<b>Phase Connection</b>	Shielded cable for each non-contact pickup coil	
<b>Ground</b>	Connection to the power system ground/earth is required for correct operation	

# Live Line Indicator

## LED Indicators

Phase LED's	Single Flash	Voltage has been sensed on the phase
	Off	No voltage sensed on the phase
Batt-On LED (if fitted)	Off	System is running on DC power, or battery is flat. Battery requires 20 minutes of charge
	Double Flash	Unit is on battery power, unit is operational
DC-On LED	On	Normal operation
	Off	Unit is not running on DC power or the LLI has entered low battery power mode to prevent damage to the battery



## Adjusting Sensitivity

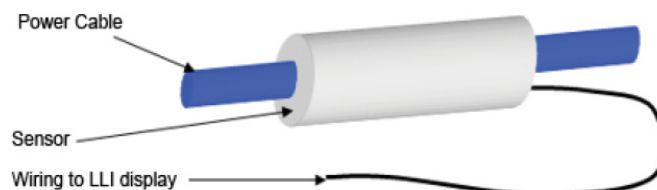
The LLI uses a non-contact method for detection of an AC field. Depending on the location of the LLI and electrical noise around the pickup coil, the sensitivity may need adjustment. Adjustment of the sensitivity is programmed by the small mode button, located on the rear of the unit.

To adjust-

1. Hold down the mode button (4 seconds) then release. Indicated with all LED's cycling until you release the mode
2. Sensitivity is shown between 1 LED (low sensitivity) and 6 LED's (high sensitivity) being illuminated. Adjust as necessary
3. Exit sensitivity setting by holding the mode button again for more than 5 seconds

## Wiring the Sense Coil

1. Wrap 5 to 15 turns of the shielded cable insulated centre conductor around the cable to be monitored and cover with a layer of heat shrink or other insulation material
2. Cover the sense coil with a conductive copper tape then solder the braid of the shielded cable to the copper tape
3. Cover the entire assembly with heat shrink
4. The insulated cable may be up to several metres in length - ensure this cable is not routed along or beside power cables



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