



## Over Voltage & Under Voltage Cut-Off with Safe Restore™ & Surge Protection

### Over/Under Voltage Cut-off Device



#### Features

- Extends the life of your fixture by eliminating temporary over/under voltages that can harm sensitive electronic components
- Safe Restore™
  - 30 second delay on Power-up
  - Instant Drop on Over/Under Voltage Condition
  - 30 second delay reconnect when nominal voltage returns to normal
- Automatically shuts off power to the fixture when nominal voltage decreases by 45V
- Automatically shuts off power to the fixture when nominal voltage increases by 45V

### Over/Under Voltage Cut-off with Surge Protective Device (SPD)



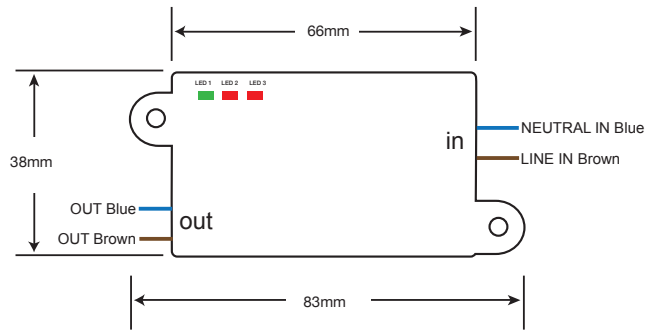
#### Features

- Extends the life of your fixture by eliminating temporary over/under voltages that can harm sensitive electronic components
- Safe Restore™
  - 30 second delay on Power-up
  - Instant Drop on Over/Under Voltage Condition
  - 30 second delay reconnect when nominal voltage returns to normal
- Automatically shuts off power to the fixture when nominal voltage decreases by 45V
- Automatically shuts off power to the fixture when nominal voltage increases by 45V

#### SPD Features

- Thermally-Fused MOV's (TFMOV)
- Gas Discharge Tube Technology
- Multi-Function Diagnostic Indicators
- All-Mode Protection (L-N, L-G and N-G)
- Small Footprint with Mounting Tabs

## Over/Under Voltage Cut-off Device



### LED 1 GREEN

ON - Functioning Normally  
 OFF - Under or Overvoltage Condition  
 FLASH SLOW - Retuning to Normal Operation

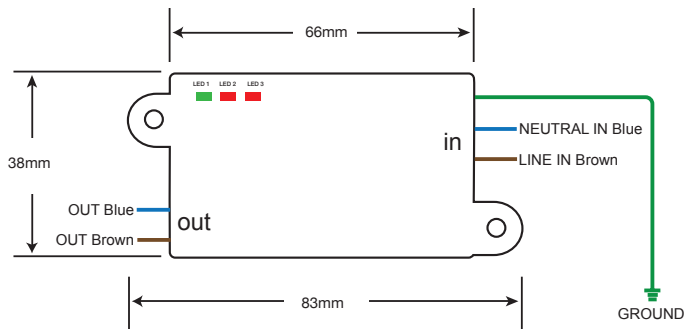
### LED 2 RED

ON - Functioning Normally  
 FLASH - Undervoltage Condition

### LED 3 RED

ON - Functioning Normally  
 FLASH - Overvoltage Condition

## Over/Under Voltage Cut-off with SPD



### LED 1 GREEN

ON - Functioning Normally  
 OFF - Under or Overvoltage Condition  
 FLASH SLOW - Retuning to Normal Operation  
 FLASH QUICK - SPD Failure - REPLACE UNIT

### LED 2 RED

ON - Functioning Normally  
 FLASH - Undervoltage Condition

### LED 3 RED

ON - Functioning Normally  
 FLASH - Overvoltage Condition

OPERATING ENVIRONMENT		
SPECIFICATIONS	PARAMETER	REFERRED STANDARD
Installing Location	Indoors or Similar Location	IEC 61643-11
IP Rating	IP 4X (excluding the wire)	IEC 61643-11
Wire Connecting	18AWG Multi-strand Soft Wire	IEC 61643-11
Related Voltage	240Vac	IEC 61643-11
Frequency	47-63Hz	IEC 61643-11
Rated Current	7A	IEC 61643-11
Altitude	<2000m	IEC 61643-11
Environment Temperature	-25C°/50C°	IEC 61643-11
Relative Humidity	5%-95% RH	IEC 61643-11

SPD PARAMETER			
SPECIFICATIONS		PARAMETER	REFERRED STANDARD
MCOV	L-N, L-G	320Vac	IEC 61643-11
	N-G	255Vac	IEC 61643-11
Nominal Discharging Current	L-N, L-G	In:10 kA / Uoc: 20 kV	IEC 61643-11
	N-G	In:5 kA / Uoc: 10 kV	IEC 61643-11
Voltage Protection Level	L-N	800V	IEC 61643-11
TOV Features	L-N, L-G	337Vac, 5s, withstand mode	IEC 61643-11
	N-G	337Vac, 5s, withstand mode	IEC 61643-11
Recommended Back-up Fuse or Circuit Breaker	CB	C Curve 10A	IEC 61643-11
Short Circuit Current Rating After the Back-Up Fuse or Circuit Breaker Isccr	C:10	10kA	IEC 61643-11