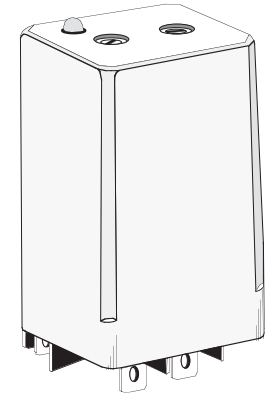


The 236 Series Voltage Sensing Relay combines a Solid State Sensor with a SPDT, 13 Amp or DPDT 10 Amp relay. The Sensor is field adjustable for Pull-in & Dropout. The 236 can be used either as a over or under voltage detecting relay. The sensor is non-latching and has no time delay.

**Applications:** Brownout protection, warning of under voltage conditions and Over voltage protection. **Prevents equipment burnout.**

## 236 SERIES VOLTAGE SENSOR



### SPECIFICATIONS 236 SERIES VOLTAGE SENSOR

#### VOLTAGE SENSING:

Nominal Input:	120,240,480 VAC 50/60Hz, 24VAC, 24 VDC. Other AC & DC Voltages Available.
Adjustment Range:	Pull-in 75% to 115% of Nominal Voltage. Dropout 75% to 95% of Pickup setting.
Repeatability:	± 1% @ constant Voltage & Temperature
Input Current:	15 mA (1.7 VA)
Current Sensor Resistance:	Relay "Off" 2 mA max. Relay "On" 22 mA max. @ 120AC (2.7 VA) 12 mA 240AC max. (2.9VA), 7 mA max. 480 AC (3.41 VA)
Temperature Range Operate:	- 30 <sup>0</sup> C to + 55 <sup>0</sup> C
Temperature Range Storage:	- 40 <sup>0</sup> C to + 85 <sup>0</sup> C

#### CONTACTS

Contact Combinations:	<b>SPDT</b> (1 Form C), <b>DPDT</b> (2 Form "C")
Contact Rating	<b>SPST:</b> 13 Amps @ 240 VAC, 28 VDC Res. 1/3 HP @ 120 VAC, 1/2 HP @ 240/480 AC, 3 AMPS @ 480 VAC, NEMA B300 Pilot Duty <b>DPDT:</b> 10 AMPS @ 240 VAC/28 VDC Res. 1/3Hp @ 120 VAC, 1/2 Hp 240 VAC NEMA B300 Pilot Duty.
Contact Life Electrical:	<b>SPDT:</b> 100,000 Operations @ 13 Amps, 240AC Res. <b>DPDT:</b> 100,000 Operations @ 10 Amps, 240AC Res.
Contact Life Mechanical:	<b>SPDT:</b> 5,000,000 Operations <b>DPDT:</b> 50,000,000 Operations.
Transient:	UL 508 Surge 5000 V for 50 microseconds
Noise Immunity:	NEMA ICS2-230, 2500 VAC

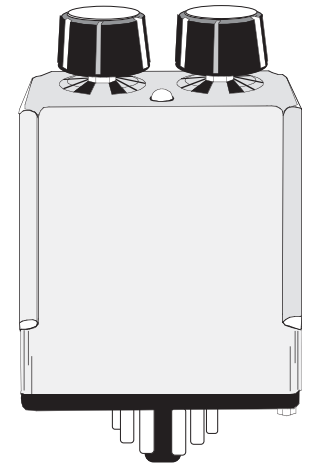
#### DIELECTRIC STRENGTH

Breakdown:	UL 508 Surge 5KV 1.2 x 50 Microseconds.
Coil to Contacts:	2500 V rms
Across Open Contacts:	1000 V rms

#### MECHANICAL

Terminals:	3/16" (.187) Quick Connect terminals. or 8 Pin Octal base
Enclosure:	Polycarbonate dust cover.
Power "ON" Indicator:	L.E.D. ( Green)
Weight:	4 oz. 124.4 g, 5 oz 155.5g (8 pin octal)

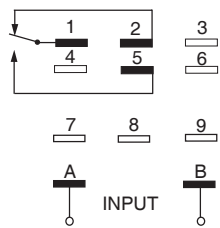
± 1 % REPEATABILITY  
SPDT, 13 AMP CONTACTS  
FIELD ADJUSTABLE



± 1 % REPEATABILITY  
DPDT, 10 AMP CONTACTS  
FIELD ADJUSTABLE

## WIRING DIAGRAMS

VIEWED FROM PIN END

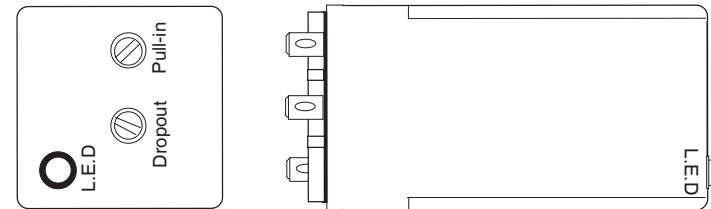
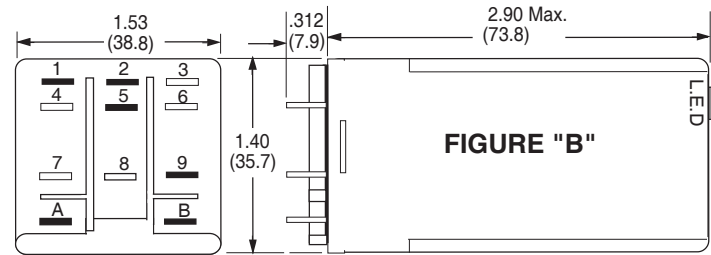


### SQUARE BASE

Continuous Voltage must be supplied to Input.

## OUTLINE DIMENSIONS

Dimensions are Shown In Inches and (Millimeters)



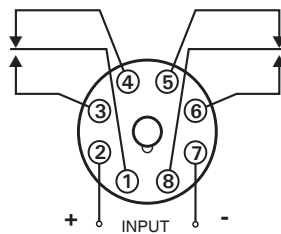
Screw Driver Adjustable with Graduated scale.

## OUTLINE DIMENSIONS

Dimensions are Shown In Inches and (Millimeters)

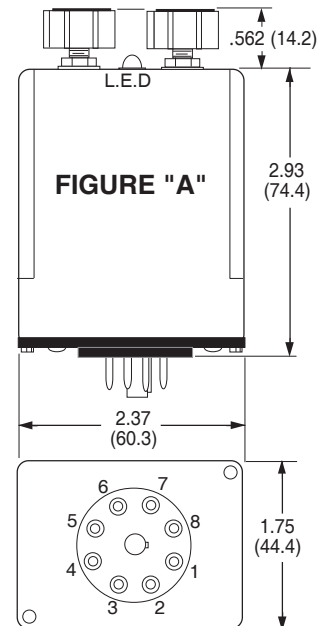
## WIRING DIAGRAMS

VIEWED FROM PIN END



### 8 PIN OCTAL

Continuous Voltage must be supplied to Input.



## STRUTHERS-DUNN

PART NUMBERS	FIG.	NOMINAL INPUT VOLTAGE	VOLTAGE PULL-IN RANGE	VOLTAGE DROP-OUT RANGE
W236ACX-1	B	120 VAC	90 to 138 VAC	75% to 95% of Pickup Voltage Setting
W236ACX-2	B	208/220 240 VAC	180 to 276 VAC	
W236ACX-4	B	480 VAC	360 to 552 VAC	
W236ACPX-1	A	120 VAC	92 to 140 VAC	90 to 138 VAC
W236ACPX-4	A	24 VAC	20 to 30 VAC	18 to 28VAC
W236CPX-1	A	24 VDC	20 to 30 VDC	18 to 28 VDC

PART NUMBERS SHOWN ALSO AVAILABLE THRU STOCKING DISTRIBUTION.