

236 Series – Adjustable Voltage Sensor

SPDT, DPDT – 10 – 13 Amp Contacts

The **236 Series Voltage Sensor Relay** combines solid state sensing circuitry with a SPST 13 Amp Relay or a DPDT 10 Amp Relay.



The **Single Pole** version has recessed potentiometers for adjustments. Has socket compatible square base blade terminals .

The **Double Pole** version had External Knob adjustments. Has a standard 8 Pin Octal plug

Pick-up Voltage is adjustable from 75% to 115% of nominal Voltage.

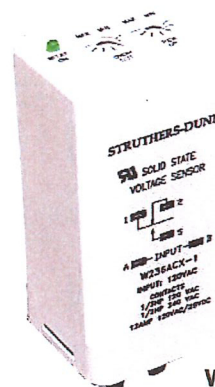
Drop out is adjustable to 75% to 95% of the set pickup voltage.

Applications: Brownout Protection, warning of undervoltage conditions and over voltage protection. Helps Prevent equipment burnout.

SPECIFICATIONS CLASS 236 CURRENT SENSOR @ 25°C

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°C to + 55°C
Temperature Range Storage:	- 40°C to + 85°C



CONTACTS

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

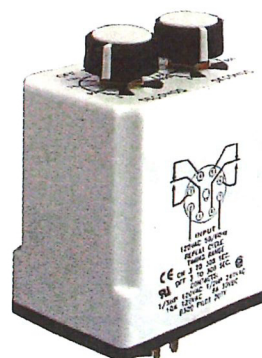


DIELECTRIC STRENGTH

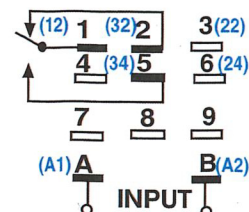
Breakdown:	UL 508 Surge 5KV 1.2 x 50 Microseconds.
Coil to Contacts:	2500 V rms
Across Open Contacts:	1000 V rms

MECHANICAL

Terminals:	3/16" (.187) Quick Connect terminals. or 8 Pin Octal base
Enclosure:	Opaque Polycarbonate dust cover. IP 40
Power "ON" Indicator:	L.E.D. (Green)
Weight:	SPDT – 4.4 Oz. (125 g.) DPDT – 5.5Oz. (156 g.)
Terminals:	PX= 8 pin octal CX= 0.187 x 0.020 quick connect
Mounting Position	Any
Mating Socket	SPDT = SK-SQB11-DS DPDT = SK-CIR8-DS

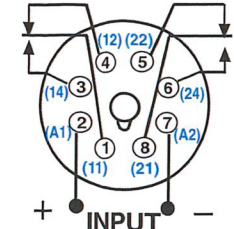


WIRING DIAGRAMS VIEWED FROM PIN END



SQUARE BASE
Continuous Voltage
must be supplied to Input.

WIRING DIAGRAMS VIEWED FROM PIN END



8 PIN OCTAL
Continuous Voltage
must be supplied to Input.

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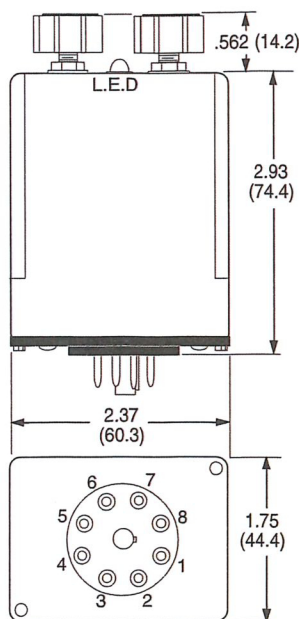
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Max Outline Dimensions
Dimensions Shown in inches & (millimeters)

Octal Base (DPDT)

OUTLINE DIMENSIONS

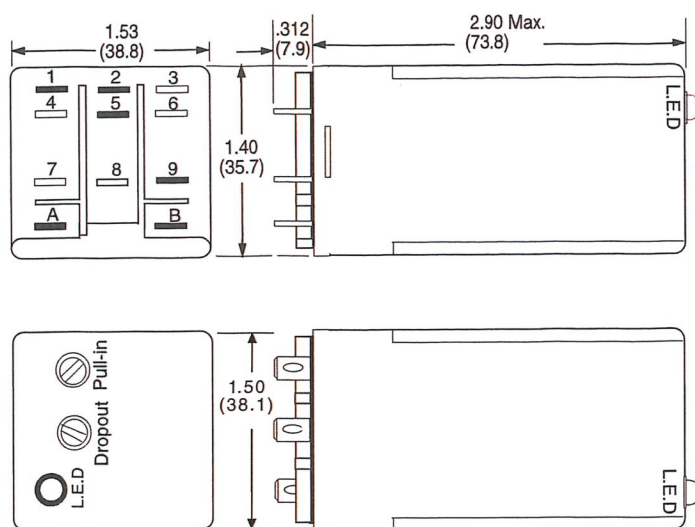
Dimensions are Shown In Inches and (Millimeters)



Square Base (SPDT)

OUTLINE DIMENSIONS

Dimensions are Shown In Inches and (Millimeters)



2.5mm wide Max Screw Driver tip
Adjustable with Graduated scale

236 Part Number Chart

Part number	Nominal input voltage	Voltage Pull-in Range	Voltage Drop-out Range	Cross Reference Part Numbers
Octal Base				
236ACPX-1	120VAC	92 to 140 VAC	90 to 138VAC	TE# CSJ-38-70010
236ACPX-4	24VAC	20 to 30 VAC	18 to 28 VAC	
236CPX-1	24VDC	20 to 30 VDC	18 to 28 VDC	TE# CSL-38-30010
Square Base				
236ACX-1	120VAC	90 to 138 VAC	75% to 95 % of Pick-up Voltage Setting	
236ACX-2	208/240VAC	180 to 276 VAC		
236ACX-4	480VAC	360 to 552 VAC		
236CX-12	14VDC	9 to 16.1 VDC	7.8 to 12.6 VDC	
236CX-15	140VDC	94 to 126 VDC	70 to 119 VDC	
236CX-27	48VDC	36 to 60 VDC	27 to 57 VDC	