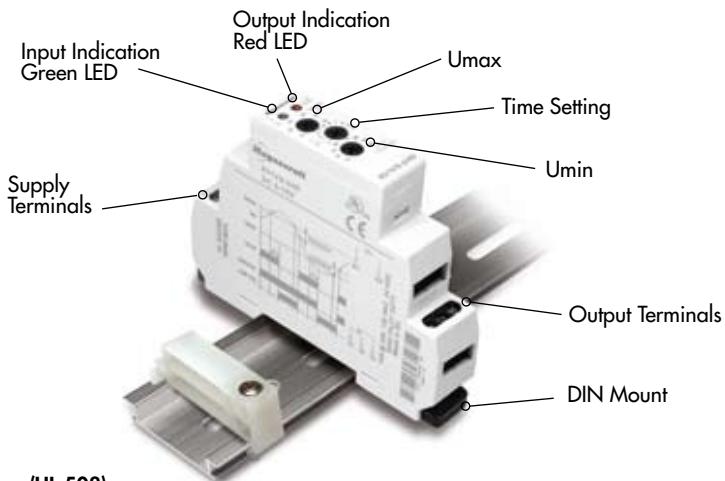


831 Voltage Sensing Relay/SPDT 15 Amp Rating



UL Listed

File No. E234203



General Specifications (@ 25°C) (UL 508)

		Units	831VS-120A	831VS-240A
Output Characteristics			SPDT	SPDT
Number and type of Contacts			Silver Alloy	Silver Alloy
Contact Material		A	15	15
Current rating	@ 240 VAC, 24 VDC	V	240 AC, 50/60 Hz	240 AC, 50/60 Hz
Switching voltage		V	24 DC	24 DC
		HP	1/2 @ 120VAC	1/2 @ 120VAC
		HP	1 @ 240 VAC	1 @ 240 VAC
Minimum Switching Requirement		Pilot Duty	B300	B300
Indication	LED	mA	100	100
		Blinks = Timing	Red	Red
		On = Energized		
Input/Sensing Characteristics				
Voltage Range		V	120 AC	240 AC
Absolute Input Voltage Maximum		V	200 AC	280 AC
Upper Sensing Voltage Range		V	80....150 AC	160....276 AC
Lower Sensing Voltage Range		%	30....99	30....99
Maximum consumption	AC/DC	VA	1.2	1.2
Indication	LED		Green	Green
Timing Characteristics				
Time Scales		sec	1	1
Time Ranges Available			0....10	0....10
Tolerance	Mechanical Setting	%	5	5
Repeatability	Constant Voltage and Temperature	%	1	1
Operate Time	Maximum	ms	25	25
Release Time	Maximum	ms	20	20
Performance Characteristics				
Electrical Life	Operations @ Rated Current (Resistive)		100,000	100,000
Mechanical Life	Unpowered		10,000,000	10,000,000
Dielectric strength	Input to Contacts	V	2500 AC	2500 AC
	Between Open Contacts	V	1000 AC	1000 AC
Terminal Wire Capacity		AWG (mm ²)	14 (2.1)	14 (2.1)
Terminal Torque (maximum)		in lb (Nm)	7.1 (0.8)	7.1 (0.8)
Environment				
Product certifications	Standard version		UL, CE	UL, CE
Ambient air temperature around the device	Storage	°C	-30...+70	-30...+70
Degree of protection	Operation	°C	-20...+55	-20...+55
Weight		grams	IP 20	IP 20
			71	71



Optional Panel Adapter
(16-788C1)
See Section 3 p.18

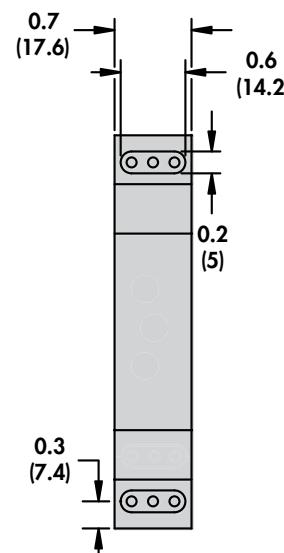
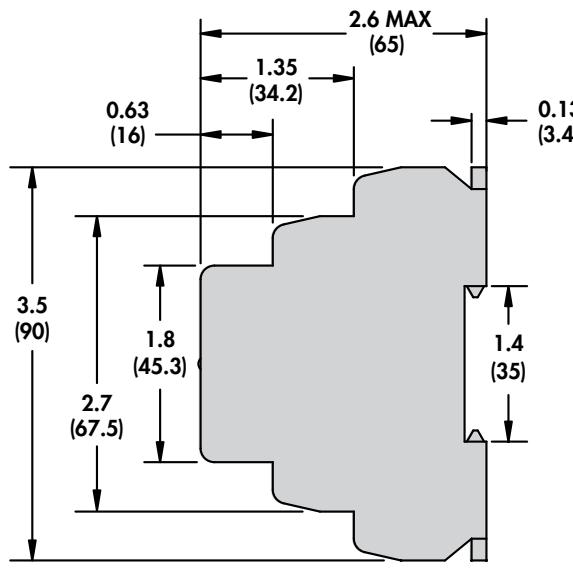
The 831 voltage sensor is a single phase AC voltage sensing device that is capable of monitoring and reacting to over and under voltage conditions. This product is designed to be wired across terminals A1 and A2 with the voltage that is being monitored. The two LED lamps indicate both when the input voltage is present (Green LED) and also when the output is energized (Red LED). The Umax dial is used to set the upper trip-point for the voltage sensor. The Umin dial is a percentage of the Umax dial and is used to set the lower trip-point for the voltage sensor. The timing dial is used to delay the transfer of the contacts, from 0 to 10 seconds, when a set point has been violated.

Standard Part Numbers

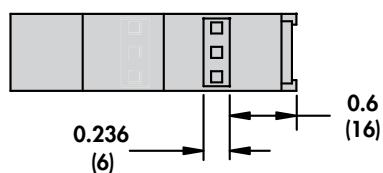
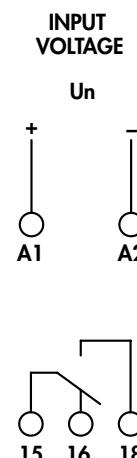
Part Number	Input Voltage	Timing Range	Sensing Voltage Range	Contact Configuration	Rated Load Current
831VS-120A	120 VAC	0s...10s	Upper: 80...150 VAC Lower: 30...99%	SPDT	15 Amps
831VS-240A	240 VAC	0s...10s	Upper: 160...276 VAC Lower: 30...99%	SPDT	15 Amps

Part Number Builder

Series	Relay Style	-	Input Voltage
831 = SPDT	VS = Voltage Sensor	-	120A = 120 VAC
			240A = 240 VAC



WIRING DIAGRAM



15 - COMMON
16 - NORMALLY CLOSED
18 - NORMALLY OPEN