

| S8(UL) SERIES

UL APPROVED* MINIATURE HIGH VOLTAGE RELAY



The S8(UL) series is a miniature high voltage reed relay for applications where space saving is a prime consideration.

The coil pins are positioned near the center of the relay while the contact pins are near the ends to give improved isolation between the High Voltage contacts and the low voltage coil.

Features

- Space saving package
- Up to 1000V switching voltage
- Isolation Voltage 7kV contact to coil
- 2.5A carry current
- Isolation Voltage across contacts 4kV or 5kV (dependent on coil voltage)



Contact		Condition	5V coil	12V coil	24V coil	
Switch Action			SPST (Form A)			
Material				Rhodium		
Isolation Across Contacts	kV	DC or AC peak	4	4	5	
Switching Power Max.	VA	(W for V variants)	100			
Switching Voltage Max.	V		350dc/300ac (1000Vdc & ac peak for V variants)			
Switching Current Max.	А	DC or AC peak	1.0			
Carry Current Max	А	DC	2.5			
Capacitance Across Contacts	pF	coil to screen grounded	0.5 (typical)			
Lifetime Operations		dry switching	10 ⁹			
		100W switching	107			
Contact Resistance	mΩ max		150			
Insulation Resistance	Ωmin (typical)		10 ¹⁰ (10 ¹³)			
Coil						
Must Operate Voltage	V	DC	4	9.6	19	
Must Release Voltage	V	DC	1	2	3	
Operate Time	ms	diode fitted	1	1	1	
Release Time	ms	diode fitted	0.5	0.5	0.5	
Resistance	Ω		120	750	1550	
Note. The operate / release voltage and o	oil resistance will change	at a rate of 0.4% per degr	ree C. Values are state	d at room temperature (2	0 degrees C)	

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Relay		Condition	5V coil	12V coil	24V coil		
Isolation Contact/Coil	kV			7			
Insulation Resistance Contact to all Terminals	Ωmin (typical)						
Environmental Conditions							
Operating Temp Range	°C			-40 to +85			
Storage Temp Range	°C		-40 to +125				



	Coil Voltage Vdc	Isolation Across Contacts kV	Max. Switching Voltage Vdc (Vac peak)
S8-0504U	5	4	350 (300)
S8-0504VU	5	4	1000 (1000)
S8-1204U	12	4	350 (300)
S8-1204VU	12	4	1000 (1000)
S8-2405U	24	5	350 (300)
S8-2405VU	24	5	1000 (1000)

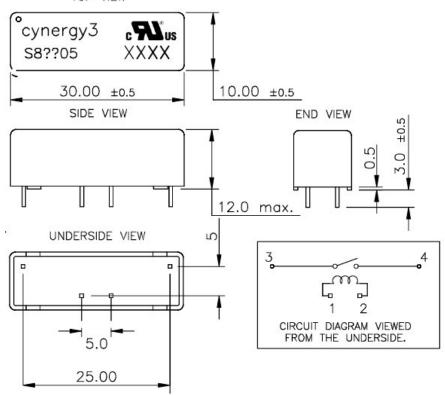
Custom versions can be designed for particular applications. Please contact Sensata with your requirements.





All dimensions are in millimeters.

TOP VIEW



Pins 0.635mm Square ±0.05mm.

Pins 1 & 2 Tin over Nickel plated, on CuSn6 Phospher Bronze.

Pins 3 & 4 Tin plated on NiFe Nickel Iron.

Case Material Nylon. Encapsulant: Epoxy

*Consult factory for UL ratings

These products have been UL approved for use as per pollution degree 2 classification. If you require further information as to how this may affect product usage, please contact c3w_sales@sensata.com.

Made in the UK

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