

# COMPACT RELAY MODULE

## CSR1S



CSR Series Relay Modules offer an extremely compact solution for interfacing relays. At 6 mm thickness, they are the most compact & versatile relay module system.

The system comprises of a Slim Relay socket and standard SPDT electro mechanical relays. Standard JX Series jumpers can be used for bussing at input and output of the relay sockets. A clear green LED indicates relay coil actuation. The compact relay modules are identified using standard K series marking tags.

### GENERAL DATA

Dimension (Thickness x Length x Height)	6 x 94.5 x 96 mm
Insulating Material / Comparative Tracking Index	PA6,6 / 1
Mounting Possibility	DIN 35-15, DIN 35-7.5 Rail
Supply Voltage Indication	3 mm Green LED
Operating Voltage Range	5 V DC, 24 V DC, 12 V UC, 24 V UC, 48-60 V UC, 120 V UC, 230 V UC, 230 V AC

### Connection Data

Type of Connection	Screw Connection		Spring Connection			
	IEC	UL-CSA	IEC	UL-CSA		
Connection Possibility as per	With 1 Conductor per Clamp	Stranded / Flexible	0.2 - 2.5 mm <sup>2</sup>	22 - 12 AWG	0.2 - 2.5 mm <sup>2</sup>	24 - 12 AWG
		Solid	0.2 - 4.0 mm <sup>2</sup>	22 - 10 AWG	0.2 - 4.0 mm <sup>2</sup>	24 - 10 AWG
		with Ferrule / Lug	0.2 - 2.5 mm <sup>2</sup>	22 - 12 AWG	0.2 - 2.5 mm <sup>2</sup>	24 - 12 AWG
With 2 same size Conductor per Clamp	with TWIN Ferrule / Lug		0.2 - 1.5 mm <sup>2</sup>	22 - 16 AWG	0.2 - 1.0 mm <sup>2</sup>	24 - 18 AWG
Torque	0.5 Nm	7 lb-in				
Wire Stripping Length	10 mm					

### Relay General Specifications

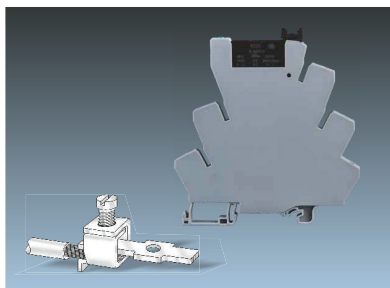
Relay Type	Electromechanical Relay
Insulation Test Voltage	4 KV AC (50 Hz, 1min)
Insulation Resistance	1000 MΩ at 500 V DC
Contact Material	AgNi
Contact Rating	6 A 250 V AC / 30 V DC
Ambient Operating Temperature	-40 to +55 °C
Contact Type	SPDT (1CO)

### ORDERING INFORMATION

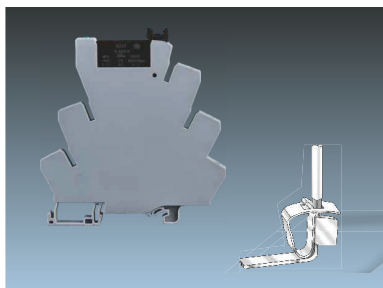
Input Voltages	Cat. No.	Std. Pk.	Cat. No.	Std. Pk.
	Screw Connection		Spring Connection	
5 V DC	CSR1S-5DYA	10	CSR1S-5DXA	10
24 V DC	CSR1S-24DYA	10	CSR1S-24DXA	10
12 V AC/DC	CSR1S-12UYA	10	CSR1S-12UXA	10
24 V AC/DC	CSR1S-24UYA	10	CSR1S-24UXA	10
48 - 60 V AC/DC	CSR1S-48-60UYA	10	CSR1S-48-60UXA	10
120 V AC/DC	CSR1S-120UYA	10	CSR1S-120UXA	10
230 V AC/DC	CSR1S-230UYA	10	CSR1S-230UXA	10
230 V AC	CSR1S-230AYA	10	CSR1S-230AXA	10

### ACCESSORIES

	Cat. No.	Std. Pk.
Shorting Link	JX4/2	100
	JX4/3	50
	JX4/4	50
	JX4/8	50
	JX4/10	10
	JX4/16	10
Marking Tag	MT6	



Versatile Connection : Universal wiring possibility with the Screw Clamp Connection ensure safe termination of wire.



Versatile Connection : Universal wiring possibility with the Spring Clamp Connection ensure safe termination of wire.



Clear Marking: Distinct and legible marking with white marker, increases readability of wiring diagram.

# COMPACT SSR MODULE

## CSER1



CSER Series Relay Modules offer an extremely compact solution for interfacing relays with solid state technology. At 6 mm thickness they are the most compact & versatile relay module system.

The system comprises of a Slim Relay socket and standard solid state relays. Standard JX Series jumpers can be used for busing at input and output of the relay sockets. A clear green LED indicates input actuation. The compact relay modules are identified using standard K series marking tags.

CSER series comes with Zero Cross Turn on & Bipolar Transistor / MOSFET Output, This Series is compatible with TTL and CMOS Output.

### GENERAL DATA

Dimension (Thickness x Length x Height)	6 x 94.5 x 96 mm			
Insulating Material / Comparative Tracking Index	PA6,6 / 1			
Mounting Possibility	DIN 35-15 ,DIN 35-7.5 Rail			
Supply Voltage Indication	3 mm Green LED			
Operating Voltage Range	24 V DC, 24 V UC, 48-60 V UC, 120 V UC, 230 V AC			
<b>Connection Data</b>				
Type of Connection	Screw Connection		Spring Connection	
Connection Possibility as per	IEC	UL-CSA	IEC	UL-CSA
	0.2 - 2.5 mm <sup>2</sup>	22 - 12 AWG	0.2 - 2.5 mm <sup>2</sup>	24 - 12 AWG
	0.2 - 4.0 mm <sup>2</sup>	22 - 10 AWG	0.2 - 4.0 mm <sup>2</sup>	24 - 10 AWG
With 1 Conductor per Clamp	Stranded / Flexible		0.2 - 2.5 mm <sup>2</sup>	24 - 12 AWG
	Solid with Ferrule / Lug		0.2 - 2.5 mm <sup>2</sup>	24 - 12 AWG
With 2 same size Conductor per Clamp	with TWIN Ferrule / Lug		0.2 - 1.5 mm <sup>2</sup>	24 - 18 AWG
Torque	0.5 Nm	7 lb-in		
Wire Stripping Length	10 mm			
<b>Relay General Specifications</b>				
Relay Type	Solid State Relay			
Breakdown Voltage (Input to output)	2.5 KV AC (50 Hz, 1min)			
Insulation Resistance	1000 MΩ at 500 V DC			
Contact Rating	48 V DC/4 A , 48 V DC/100 mA , 380 V AC/2A			
Ambient Operating Temperature	-40 to +55 °C			
Contact Type	SPST (1NO)			

### ORDERING INFORMATION

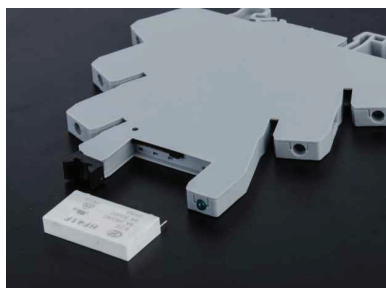
Input Voltages	Output Voltage / Current	Cat. No. Screw Connection	Std. Pk.	Cat. No. Spring Connection	Std. Pk.
24 V DC	48 V DC / 4 A	CSER1-24D48D4YC	10	CSER1-24D48D4XC	10
	48 V DC / 100 mA	CSER1-24D48D100YC	10	CSER1-24D48D100XC	10
	380 V AC / 2 A	CSER1-24D380A2YC	10	CSER1-24D380A2XC	10
24 V AC/DC	48 V DC / 4 A	CSER1-24U48D4YC	10	CSER1-24U48D4XC	10
	48 V DC / 100 mA	CSER1-24U48D100YC	10	CSER1-24U48D100XC	10
	380 V AC / 2 A	CSER1-24U380A2YC	10	CSER1-24U380A2XC	10
	48 - 60 V AC/DC	48 V DC / 4 A	CSER1-4860U48D4YC	10	CSER1-4860U48D4XC
	48 V DC / 100 mA	CSER14860U48D100YC	10	CSER14860U48D100XC	10
	380 V AC / 2 A	CSER1-4860U380A2YC	10	CSER1-4860U380A2XC	10
120 V AC/DC	48 V DC / 4 A	CSER1-120U48D4YC	10	CSER1-120U48D4XC	10
	48 V DC / 100 mA	CSER1-120U48D100YC	10	CSER1-120U48D100XC	10
	380 V AC / 2 A	CSER1-120U380A2YC	10	CSER1-120U380A2XC	10
	230 V AC	48 V DC / 4 A	CSER1-230A48D4YC	10	CSER1-230A48D4XC
	48 V DC / 100 mA	CSER1-230A48D100YC	10	CSER1-230A48D100XC	10
	380 V AC / 2 A	CSER1-230A380A2YC	10	CSER1-230A380A2XC	10

### ACCESSORIES

		Cat. No.	Std. Pk.
Shorting Link	2 pole	JX4/2	100
	3 pole	JX4/3	50
	4 pole	JX4/4	50
	8 pole	JX4/8	50
	10 pole	JX4/10	10
	16 pole	JX4/16	10
Marking Tag		MT6	



Easy Cross Connectivity : Cross connection possibility in five connection levels with Multi pole shorting links.



Easy exchange : Universal socket suitable for simple exchange of Solid state relay and Electromechanical Relay.



Clearly visible Green LED to indicate relay coil actuation.