

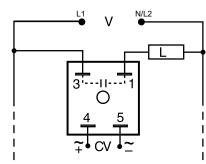
SIR SERIES

Solid-State Relay - Isolated

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Wiring Diagram



V = Voltage CV = Control Voltage L = Load

Load may be connected to terminal 3 or 1.

Note: Normally open output is shown. Normally closed output is also available.

Description

The SIR Series is designed for industrial applications requiring rugged reliable operation. Provides an optically isolated, high capacity, solid-state output, with power switching capability up to 20A steady state, 200A inrush. Zero voltage switching SIR2 extends the life of an incandescent lamp up to 10 times. Random switching SIR1 is ideal for inductive loads. When fully insulated female terminals are used on the connection wires, the system meets the requirements for touch-proof connections.

Operation

The solid-state output is located between terminals 1 and 3, and is normally open or normally closed without control voltage applied to terminals 4 and 5. When control voltage is applied to terminals 4 and 5, the solid-state output opens or closes respectively.

Reset: Removing control voltage resets the output. The unit is also reset if output voltage is removed.

Features & Benefits

FEATURES	BENEFITS
Compact design measures 2 in. (50.8mm) square	Perfect for OEM applications where space is limited
Totally solid state and encapsulated	No moving parts to arc and wear out over time and encapsulated to protect against shock, vibration and humidity
Up to 20A, 200A inrush output rating	Provides direct control of heavy inductive, incandescent or resistive loads
Switching output is optically isolated from the control input	Provides the ability to interface between 2 different electrical circuits
SIR1 models provide random switching	Designed for use with resistive and incandescent loads, extending lamp life up to 10 times
SIR2 models provide zero voltage switching	Perfect for resistive and incandescent loads
Metalized mounting surface	Facilitates heat transfer in high current applications

Ordering Information

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MODEL	SWITCHING	CONTROL VOLTAGE	RATING	OUTPUT FORM	OUTPUT VOLTAGE
SIR1A1A4	Random	9 to 30VAC or DC	3A	Normally open	120VAC
SIR1A20A4	Random	9 to 30VAC or DC	20A	Normally open	120VAC
SIR1B6B4	Random	90 to 150VAC or DC	6A	Normally closed	120VAC
SIR1C20B6	Random	190 to 290VAC or DC	20A	Normally closed	230VAC
SIR2A20A4	Zero voltage	9 to 30VAC or DC	20A	Normally open	120VAC
SIR2B20A4	Zero voltage	90 to 150VAC or DC	20A	Normally open	120VAC
SIR2B20B4	Zero voltage	90 to 150VAC or DC	20A	Normally closed	120VAC

If you don't find the part you need, call us for a custom product 800-843-8848





Accessories

SIR SERIES

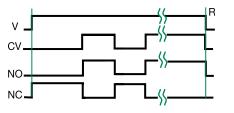


P1015-13 (AWG 10/12), P1015-64 (AWG 14/16), P1015-14 (AWG 18/22) Female Quick Connect These 0.25 in. (6.35 mm) female terminals are constructed with an insulator barrel to provide strain relief.



P1015-18 Quick Connect to Screw Adapter Screw adapter terminal designed for use with all modules with 0.25 in. (6.35 mm) male quick connect terminals.

Function Diagram



Specifications

Output					
Туре	Optical isolation, totally solid state				
Form	SPST, NO or NC				
Voltage	24, 120, or 230VAC				
Tolerance	±20%				
Ratings	Steady State	Inrush*	Output Device		
	ЗA	30A	Triac		
	6A	60A	Triac		
	10A	100A	Triac		
	20A	200A	Triac		
Minimum Load Current	≅ 50mA				
Voltage Drop	≅ 2.0V at rated current				
Leakage Current (Open State)	≅ 6mA				
Input					
Туре	Optical isolation LED/photo transistor				
Control Voltage	9 to 290VAC/DC in 3 ranges				
Power Consumption	≤ 0.5W				
Protection					
Circuitry	Encapsulated				
Dielectric Breakdown	\ge 2000V RMS terminals to mounting surface				
Insulation Resistance	≥ 100 MΩ				
Mechanical					
Mounting*	Surface mount with one #10 (M5 x 0.8) screw				
Dimensions	H 50.8 mm (2.0"); W 50.8 mm (2.0");				
	D 38.4 mm (1.51")				
Termination	0.25 in. (6.35 mm) male quick connect terminals				
Environmental					
Operating/Storage					
Temperature	-40° to 60°C / -55° to 85°C				
Humidity	95% relative, non-condensing				
Weight	≅ 3.9 oz (111 g)				

*Must be bolted to a metal surface using the included heat sink compound. The maximum mounting surface temperature is 90°C. Inrush: Non-repetitive for 16ms.

单击下面可查看定价,库存,交付和生命周期等信息

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