



# Slim Interface Relays

## Overview

Klemsan Slim Interface Relays are highly compact and lightweight relays, which are especially useful where cabinet space is a consideration. Encased in a self-extinguishing plastic housing, these high quality relays offer a long useful life. These relays are great for use with: PLC automation systems, electric power plants, energy management systems, medium voltage panels, industrial machines, and more.

## Features

- 35mm DIN rail mount
- Slim 6.2mm design
- Integrated LED indicator (On)
- Integrated resistor, capacitor, and Zener diode (RCZ) filter on select models
- For use in supply circuits where leakage current is an issue
- DC and AC supply voltage options
- Wide range of power input from 12V to 230V
- High level of electromagnetic compatibility (EMC)
- Self-extinguishing plastic housing
- Plug-in bridges
- UL certified



**KPR-SCL-115VACDC-1**

Slim Interface Relays									
Part Number	Price	Description	Coil Voltage	Relay Configuration	Contact Rating	Integrated RCZ Filter	Output Type	Color	Drawing Link
<a href="#">KPR-SCF-230VAC-1</a>		Interface relay with LED indicators	230 VAC	SPDT	6A	Yes	(1) N.O., (1) N.C.	Gray	<a href="#">PDF</a>
<a href="#">KPR-SCF-115VACDC-1</a>			115 VAC/VDC			Yes			<a href="#">PDF</a>
<a href="#">KPR-SCE-12VACDC-1</a>			12 VAC/VDC			No			<a href="#">PDF</a>
<a href="#">KPR-SCE-24VACDC-1</a>			24 VAC/VDC			No			<a href="#">PDF</a>
<a href="#">KPR-SCE-230VACDC-1</a>			230 VAC/VDC			No			<a href="#">PDF</a>

Slim Interface Relays									
Part Number	Price	Description	Coil Voltage	Relay Configuration	Contact Rating	Integrated RCZ Filter	Output Type	Color	Drawing Link
<a href="#">KPR-SCL-230VAC-1</a>		Interface relay with LED indicators	230 VAC	SPDT	6A	Yes	(1) N.O., (1) N.C.	Black	<a href="#">PDF</a>
<a href="#">KPR-SCL-115VACDC-1</a>			115 VAC/VDC			Yes			<a href="#">PDF</a>
<a href="#">KPR-SCS-12VACDC-1</a>			12 VAC/VDC			No			<a href="#">PDF</a>
<a href="#">KPR-SCS-24VACDC-1</a>			24 VAC/VDC			No			<a href="#">PDF</a>
<a href="#">KPR-SCS-230VACDC-1</a>			230 VAC/VDC			No			<a href="#">PDF</a>

Slim Interface Relays Accessories				
Part Number	Price	Description	Quantity	Drawing Link
<a href="#">APP-KPR</a>		Orange polyamide separator plate	5	<a href="#">PDF</a>
<a href="#">TK-KPR-S16</a>		16-pole push-in type interface relay jumper	5	<a href="#">PDF</a>
<a href="#">TK-KPR-S8</a>		8-pole push-in type interface relay jumper	5	<a href="#">PDF</a>

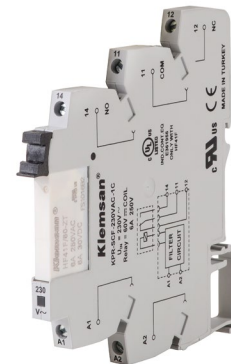
Note: Relay jumpers can be cut to match the number of relays when less than 8 or 16 count.



**APP-KPR**



**TK-KPR-S16**



**KPR-SCF-230VAC-1**



# Slim Interface Relays

Specifications						
Part Numbers	<i>KPR-SCF-230VAC-1</i> <i>KPR-SCL-230VAC-1</i>	<i>KPR-SCF-115VACDC-1</i> <i>KPR-SCL-115VACDC-1</i>	<i>KPR-SCE-12VACDC-1</i> <i>KPR-SCS-12VACDC-1</i>	<i>KPR-SCE-24VACDC-1</i> <i>KPR-SCS-24VACDC-1</i>	<i>KPR-SCE-230VACDC-1</i> <i>KPR-SCS-230VACDC-1</i>	
<b>Input Specifications</b>						
<b>Nominal Voltage</b>	230 VAC	115 VAC/VDC	12 VAC/VDC	24 VAC/VDC	230 VAC/VDC	
<b>Operating Voltage Range</b>	196–265 VAC	98–132 VAC/VDC	10–14 VAC/VDC	20–28 VAC/VDC	196–265 VAC/VDC	
<b>Release Voltage</b>	92 VAC	46 VAC/VDC	5 VAC/VDC	10 VAC/VDC	92 VAC/VDC	
<b>Power Consumption</b>	<b>AC</b>	<0.9 VA	<0.7 VA	<0.35 VA	<0.2 VA	<1.3 VA
	<b>DC</b>	n/a	<0.6W	<0.35W	<0.2W	<1.2W
<b>Contact Specifications</b>						
<b>Material</b>	Silver Tin Oxide (AgSnO <sub>2</sub> )					
<b>Operate Time</b>	10 ms maximum					
<b>Release Time</b>	5 ms maximum					
<b>Maximum Wire Size</b>	2.5mm <sup>2</sup> [14 AWG]					
<b>Maximum Ratings</b>	<b>AC</b>	6 A / 250 VAC, 1500 VA				
	<b>DC</b>	6 A / 30 VDC; 180W				
<b>Minimum Load</b>	6 VDC 0.1A					
<b>Mechanical Life Time</b>	10 <sup>7</sup> operations					
<b>Electrical Life Time Operations</b>	3x10 <sup>4</sup> N.O. operations 1x10 <sup>4</sup> N.C. operations					
<b>Wiping Current</b>	10 VDC 10 mA, 50 cycles 15-20 Hz					
<b>General Specifications</b>						
<b>Isolation Resistance</b>	1000 MΩ (500 VDC)					
<b>Dielectric Strength</b>	Between relay coil and contacts: 4000 VAC for 1 minute Between contacts: 1000 VAC for 1 minute					
<b>Ambient Temperature</b>	-40 to +85°C [-40 to +185°F]					
<b>Ambient Humidity</b>	5 to 85% (no condensation)					
<b>Protection Rating</b>	IP20					
<b>Mounting Position</b>	No restrictions					
<b>Connection</b>	Screw terminal					
<b>Maximum Torque</b>	0.4 N•m [0.295 ft-lbs]					
<b>Relay Indicator</b>	Green LED					
<b>Weight (g [oz])</b>	33.4 [1.18]	33.6 [1.19]	33.2 [1.17]	33.0 [1.16]	33.2 [1.17]	
<b>Agency Approvals</b>	UL Listed E361956 CE REACH					

\* To obtain the most current agency approval information, see the Agency Compliance & Certifications Checklist section on the specific part number's web page.

# Slim Interface Relays Wiring Diagram

## Wiring Diagram

