

# Slim Interface Relays

## Overview

Klemsan Slim Interface Relays are highly compact and lightweight relays especially useful where cabinet space is a consideration. Encased in a self-extinguishing plastic housing, these high quality relays offer a long useful life. 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 6.2 mm 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-SCF-230VAC-1**

Slim Interface Relays							
Part Number	Price	Description	Coil Voltage	Configuration	Contact Rating	Integrated RCZ Filter	Drawing Link
<a href="#"><u>KPR-SCF-230VAC-1</u></a>	\$9.00	Interface relay with LED indicators	230VAC	SPDT	6A	Yes	<a href="#"><u>PDF</u></a>
<a href="#"><u>KPR-SCF-115VACDC-1</u></a>	\$9.00		115V AC/DC			Yes	<a href="#"><u>PDF</u></a>
<a href="#"><u>KPR-SCE-12VACDC-1</u></a>	\$8.00		12V AC/DC			No	<a href="#"><u>PDF</u></a>
<a href="#"><u>KPR-SCE-24VACDC-1</u></a>	\$8.00		24V AC/DC			No	<a href="#"><u>PDF</u></a>
<a href="#"><u>KPR-SCE-230VACDC-1</u></a>	\$9.00		230V AC/DC			No	<a href="#"><u>PDF</u></a>

Slim Interface Relays Accessories				
Part Number	Price	Description	Quantity	Drawing Link
<a href="#"><u>APP-KPR</u></a>	\$4.00	Orange polyamide separator plate	5	<a href="#"><u>PDF</u></a>
<a href="#"><u>TK-KPR-S16</u></a>	\$13.00	16-pole push-in type interface relay jumper	5	<a href="#"><u>PDF</u></a>
<a href="#"><u>TK-KPR-S8</u></a>	\$8.00	8-pole push-in type interface relay jumper	5	<a href="#"><u>PDF</u></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**

# Slim Interface Relays Specifications

Slim Interface Relays Specifications						
Part Numbers	<u><a href="#">KPR-SCF-230VAC-1</a></u>	<u><a href="#">KPR-SCF-115VACDC-1</a></u>	<u><a href="#">KPR-SCE-12VACDC-1</a></u>	<u><a href="#">KPR-SCE-24VACDC-1</a></u>	<u><a href="#">KPR-SCE-230VACDC-1</a></u>	
<b>Input Specifications</b>						
<b>Nominal Voltage</b>	230VAC	115V AC/DC	12V AC/DC	24V AC/DC	230V AC/DC	
<b>Operating voltage range</b>	196-265 VAC	98-132V AC/DC	10-14V AC/DC	20-28V AC/DC	196-265V AC/DC	
<b>Release voltage</b>	92VAC	46V AC/DC	5V AC/DC	10V AC/DC	92V AC/DC	
<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	<0.6 W	<0.35 W	<0.2 W	<1.2 W
<b>Contact Specifications</b>						
<b>Type</b>	1 SPDT					
<b>Material</b>	Silver Tin Oxide (AgSnO <sub>2</sub> )					
<b>Operate time</b>	10ms maximum					
<b>Release time</b>	5ms maximum					
<b>Max Wire Size</b>	2.5 mm <sup>2</sup> (14AWG)					
<b>Maximum ratings</b>	<b>AC</b>	6A/250VAC, 1500VA				
	<b>DC</b>	6A/30VDC; 180W				
<b>Minimum Load</b>	6VDC 0.1 A					
<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>	10VDC 10mA, 50 cycles 15-20 Hz					
<b>General Specifications</b>						
<b>Connection</b>	Screw terminal					
<b>Isolation resistance</b>	1000MΩ (500VDC)					
<b>Dielectric strength</b>	Between relay coil and contacts: 4000VAC for 1 minute Between contacts: 1000VAC 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>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 and Standards*</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

